

PROVIDING THE EXCELLENCE YOU EXPECT AND DESERVE



MOLDSHOPSUPPLIES.COM PRODUCT CATALOG

YOUR GUIDE TO HELP FIND THE RIGHT PRODUCT FOR YOUR APPLICATION



**ABRASIVE SOLUTIONS SPECIALISTS
FOR INDUSTRIAL APPLICATIONS**



ABOUT US

MOLDSHOPSUPPLIES.COM, The Online home of D.W. Sales and Keldon Company, has over 100 combined years of experience in the metalworking industry. Together, we offer a complete line of abrasives, polishing supplies, air tools, and cutting tools to meet your needs. We have built a solid reputation over the years by providing quality products, fast delivery, technical knowledge and service from our extensive line of top brand products. We provide the newest abrasive solutions to help solve some of our customer's biggest challenges, one customer at a time.

See for yourself and join the other companies who rely on us to keep them going. Our stocked inventory has been carefully sourced with years of industry knowledge to meet the needs of our customer base. Committing to our customers has allowed us to remain ready to provide the best quality, service and price. Your satisfaction is our goal! Thanks for your continuous support over the years.

WE KNOW OUR ABRASIVES.

TERMS AND CONDITIONS OF SALE

METHODS OF PAYMENT

We accept credit cards (Visa, MasterCard, and American Express), cash, or check at time of sale until credit is approved. Net 30 Credit application is available on our website under Terms and Conditions. Customers with established credit payment terms are net 30 from date of invoice unless otherwise agreed upon. All invoices past 60 days will be considered delinquent and a 1.5% per month interest charge may be applied to these delinquent balances. Tax will be charged to customers in the state of Michigan unless an up to date copy of your sales tax exemption form has been provided.

PRICING

Prices are subject to change without notice. Orders throughout the year will be billed at the prevailing prices. Quotations are valid 30 days from the date of quote unless otherwise noted. Typographical or similar errors on marketing materials are subject to correction.

FREIGHT

All shipments F.O.B. Sterling Heights, MI or Bryon Center, MI unless otherwise specified. Shipments are made via UPS unless otherwise specified. All stock items ship same day for orders received before 2:00pm.

If your shipment is damaged or shortages result from carrier mishandling, D.W. Sales or Keldon Company is not responsible. Notify your local UPS office immediately to file a claim. Keep damaged goods and containers for inspection until you are advised by UPS to dispose of them.

CUSTOMER SERVICE

Our experienced staff is always ready to assist you with orders, special requests, product information and technical service. If you have any concerns, please let us know "so we can improve" and better serve you, our valued customer.

OUR ADVANTAGE IS THAT WE SPECIALIZE IN ABRASIVE SOLUTIONS AND SUPPLIES.

HOW TO ORDER

OUR WEBSITE IS READY FOR YOU!

PLACE YOUR ORDERS VIA OUR QUICK & CONVENIENT WEBSITE

NOTE: THIS IS A CLOSED WEBSITE - CUSTOMERS ONLY, SO A QUICK REGISTRATION AND APPROVAL PROCESS IS NECESSARY.



LOG IN NOW TO START *SAVING TIME AND \$\$\$*

JOIN THE OTHER COMPANIES WHO RELY ON US TO KEEP THEM GOING.

YOUR SOURCE FOR ABRASIVE SOLUTIONS IN A *SNAP!*



SIGN UP AND START SHOPPING OUR SELECTION OF ABRASIVE AND POLISHING SUPPLIES

SAME SERVICE YOU COME TO EXPECT FROM US WITH MORE BENEFITS!

MOLDSHOPSUPPLIES.COM BENEFITS

<ul style="list-style-type: none"> • QUICKER ORDERS • ORDER TRACKING • OPEN BACK-ORDERS • BUILD FAVORITES LISTS 	<ul style="list-style-type: none"> • INVOICE VIEWING • PURCHASE HISTORY • INVENTORY INFORMATION • SAVE TIME AND \$\$\$\$\$
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OUR COMPLETE LINE OF ABRASIVES, POLISHING SUPPLIES, AIR TOOLS, AND PROCESSING AIDS GEARED TO YOUR NEEDS ARE ONLY A CLICK AWAY.

OUR ABRASIVE SPECIALISTS ARE HERE TO HELP!

YOUR LOCAL AND NATIONAL DISTRIBUTOR FOR ABRASIVE SOLUTIONS

D.W. Sales: 248-528-1663 or sales@dwsales.com
6594 Diplomat Drive Sterling Heights, MI 48314
(Newer out of state customers should order through D.W. Sales)

Keldon Company: 616-583-9835 or sales@keldonco.com
7764 Clyde Park Byron Center, MI 49315

PRODUCT LINE CARD

MoldShopSupplies.com is an industrial supplier specializing in abrasives solutions and polishing supplies since 1980. We are committed to seeing you and your company succeed! We work hard bringing the best to our customers from our extensive product knowledge, superior service, and selection of inventory. All orders will be processed quickly and made ready for pick-up or delivery. Always ready to lend a hand! We've got you covered, leave everything to us.

PROVIDING THE EXCELLENCE YOU EXPECT AND DESERVE!

BONDED ABRASIVES

Polishing Stones

- EDM
- General Purpose
- Detail
- Roughout
- Dressing Sticks

Ceramic Fiber "Super Stones"
Diamond "Super Stones"
Cut-Off Wheels
Bench & Pedestal Wheels
Centerless Wheels
Ceramic Wheels
Cones & Plugs
Cotton Fiber Wheels
Cristone
Coarse Nasty Bastards (CNB)
Cup Wheels
Cylindrical Wheels
Depressed Center
Dressing Sticks
Feed [Regulating] Wheels
Gear Grinding Wheels
Grinding Wheels
Vitrified Bonded Surface
Bench/Pedestal
Mounted Points
Nut Inserted Wheels
O.D. Wheels
Polishing Wheels
Segments
Snagging Wheels
Sticks & Stones
Surface Grinding Wheels
Thread Grinding Wheels
Tool Room Wheels

COATED ABRASIVES

Belts
Cartridge Rolls
Quick Change Discs
PSA Cloth Discs
PSA Paper Backed
QDC Discs
Sheets 9 X 11"

- Cloth
- Silicon Carbide Wet/Dry
- Garnet
- A-275 (Dry Lube)
- Sandscreen

Shop Rolls
Resin Fiber Discs
Spiral Bands
Flap Discs
Mini Flap Disc
Flap Wheels
Overlap Discs
Cross Pads
Film Back Discs
Hook & Loop Discs
No Lap Bands
Sanding Sponges
Stearate Discs

NON-WOVEN ABRASIVES

Belts
Time Saver Belts
Buff & Blend
Blend and Finish Wheels
Convolute Wheels
Deburring Wheels
Rolls
Cross Buffs
Hand Pads
QDC Discs
Surface Conditioning Discs
Unitized Wheels

POLISHING SUPPLIES

Diamond Compound
Diamond PSA Foil
Felt Bobs, Laps, Sticks, Strips, Sheets
Lapping Compound
Muslin Buffs
BoriLube Polishing Lubricant
Congress Stoning Oil
Semi-Chrome
Slip Stick Wax

SUPER ABRASIVES

CBN & Diamond Mandrels
CBN & Diamond Wheels
CBN & Cut-Off Wheels
Diamond Dressing Tools
Diamond Dressing Rolls
Dressing Sticks

MOLD TREATMENTS

Greases
Lubricants
Mold Cleaners
Mold Releases
Purging Compounds
Rust Preventatives

Your Distributor for Abrasive Solutions:

D.W. Sales: 6594 Diplomat Dr Sterling Heights, MI 48314

Phone: 248-528-1663 Email: sales@dwsales.com

Keldon Co: 7764 Clyde Park Byron Center, MI 49315

Phone: 616-583-9835 Email: sales@keldonco.com



LUBRICANTS & COOLANTS

Air Tool Oil

- Anti-Seize
- Band Saw Coolant

Corrosion Preventative
Cutting Fluid
Grinding Coolant
Hand Cleaner
Machining Coolant
Metal Cutting
Metal Forming Lubricant
Rust Preventive
Swiss Machining Fluid
Synthetic Metal Working Fluid
Tapping Fluid and Paste
Wire Drawing Lubricant

AIR & ELECTRIC TOOLS

Accessories and Parts
Belt Sanders
Bevellers
Grinders: Die, Right Angle
Pencil Grinders
Profilers
High Speed Spindles
Orbital Sanders
Pistol Grip Drills
Reciprocating Polishers
Ultra-Sonic Air Turbine Hand Pieces
Ultrasonic Profiler

CUTTING TOOLS

Carbide Burs
Carbide Inserts
Dental Burs
Diamond Burs
Diamond Discs
Drills
End Mills
Taps

BAND SAW BLADES

Bi-Metal
Carbide Tipped
Carbon Steel
Circular Saw
Coil
Portable Band Saw Blades
Welded to Length

HARDWARE & ACCESSORIES

Bushings
Flange Adapters
Holders
Mandrels
Pads
Rib-Out
Stone Holders

MISCELLANEOUS

Spotting Blue
Chip Brushes 1/2"-4"
Acid Brushes
Knot Wire
Miniature Polishing Brushes

- End
- Cup
- Wheel

Flashlights
OptiVisor, & Lighting Kit for OptiVisor

FILES

American Pattern
Swiss Pattern
Diamond Plated
Notched
Riffler

SERVICES PROVIDED

Automated Dispensing - Vending
Crib Software
Express Delivery - UPS & FedEx
Polishing Advice
Tool Repair
Vendor Managed Inventory

MAJOR MANUFACTURERS WE REPRESENT WE PROUDLY OFFER PRODUCTS MADE BY



PRODUCT LINE CARD

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We want to help you make your business the best it can be.
Please let us know how we can serve you better.

POLISHING STONES LISTING

HIGH QUALITY POLISHING STONES MADE IN THE USA

	EDM POLISHING STONES		
	AM-8	EXCELLENT ULTRASONIC STONE, STRONG; HOLDS SHAPE	PAGE 13
	AS-9	MOST POPULAR EDM STONE; GREAT WITH PROFILER AND HAND STONING	PAGE 14
	Orange EDM	FAST CUTTING ACTION WITH CONSISTENT BREAKDOWN	PAGE 15
	Golden Star	OFFERS SUPERIOR BREAKDOWN CHARACTERISTICS AND A SMOOTH, SILKY FINISH	PAGE 16
	GENERAL PURPOSE STONES (ALUMINUM OXIDE)		
	AM-2	GENERAL PURPOSE STONE; SOFT; FAST BREAKDOWN	PAGE 17
	DIE STONE	SLIGHTLY HARDER THAN AM-2	PAGE 19
	AM-K	WHITE ALUMINUM OXIDE STONE GOOD FOR MACHINED SURFACES	PAGE 20
	AS-H	WHITE ALUMINUM OXIDE STONE SOFTER THAN AM-K	PAGE 21
	GENERAL PURPOSE STONES (SILICON CARBIDE)		
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	CS-M	PREMIUM GREEN SILICON CARBIDE, FAST-CUTTING, MEDIUM HARDNESS	PAGE 23
	CS-HD	HARDER STONE THAN CS-M, EXCELLENT FOR HARDENED STEEL, 47-63RC	PAGE 24
	SPECIALTY POLISHING STONES		
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	PC	PREMIUM POLISHING STONE FOR FINAL FINISH WORK	PAGE 26
	T2	EXCELLENT STONE FOR STAINLESS STEEL	PAGE 27
	T4	ENGINEERED FOR FINISHING ALUMINUM AND SOFT METALS	PAGE 28
	AO	AGGRESSIVE OIL TREATED STONE FOR GENERAL MILL REMOVAL AND EDM	PAGE 29
	TH	PERFORMS WELL ON ALL TYPES OF TOOL STEELS	PAGE 31
	900-F	VERY SOFT STONE FOR SUPER-FINE FINISHING	PAGE 32
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	CERAMIC SUPER STONE	VERY STRONG, USED FOR EDM REMOVAL IN RIBS AND SLOTS	PAGE 37
	CRISTONE® CRYSTAL FIBER	TREMENDOUS BENDING STRENGTH AND OUTSTANDING POLISHING EFFICIENCY	PAGE 40
	CERAMIC DIAMOND	COMBINATION OF CERAMIC FIBERS AND EVENLY DISTRIBUTED DIAMOND PARTICLES	PAGE 41
	CNB-80 & CNB-120	EXTREMELY AGGRESSIVE ADVANCED COMPOSITE FIBER; GREAT FOR BLENDING WELD REPAIRS	PAGE 41

POLISHING STONES - APPLICATIONS



TYPE OF STONE		SURFACE	TOOL STEEL	ALUMINUM	NON-FERROUS	STAINLESS STEEL	EDM	METHOD	HAND	PROFILER	ULTRASONIC	USE	WET	DRY	BREAKDOWN	0 = SLOW	5 = FAST	HARDNESS	0 = SOFT	5 = HARD
HIGH QUALITY POLISHING STONES MADE IN THE USA																				
EDM Polishing Stones	AM-8		●				▲		●	●	●		●			2				4
	AS-9		●				▲		●	●			●	●		3				3
	ORANGE EDM		●				●		●	●			●	●		3				3
	GOLDEN STAR		▲				▲		●	●			●			4				3
General Purpose Stones <i>(Aluminum Oxide)</i>	AM-2		▲	●	▲	●			●	●			●	●		4				2
	DIE STONE		●			●			●	●			●	●		3				3
	AM-K		●	●					●	●			●	●		3				3
	AS-H		●	●	●	●			●	●			●	●		4				2
Silicon Carbide Stones	CS		●		●				●				●	●		5				2
	CS-M		●	●	▲				●	●			●	●		4				2
	CS-HD		●			●	●		●	●			●	●		3				3
Specialty Stones	RASP		●	●	●	●	▲		●	●			●	●		4				2
	PC		●	●	●	●			●	●			●	●		4				3
	T2		●			▲	●		●	●			●	●		2				4
	T4		●	▲	●	●			●	●			●	●		4				3
	A0		▲				●		●	●			●	●		3				3
	TH		●				●		●	●			●	●		3				3
	900-F		●						●				●			5				0
Detail Stones	CERAMIC	DETAIL AREAS, RIBS & SLOTS											●	●						
	CNB - 80 & 120	AGGRESSIVE - FAST CUTTING/WELDS-BLENDING EDM											●							
	CRISTONE® CRYSTAL FIBER	EXTREMELY STRONG AND THIN - FINE DETAIL POLISHING											●	●						

▲ INDICATES MOST POPULAR STONE FOR THE APPLICATION

WHICH POLISHING STONE YOU SHOULD USE DEPENDS ON THE MATERIAL OF THE MOLD YOU'RE POLISHING, THE SHAPE OF THE MOLD SURFACE, HOW YOU ARE POLISHING (WET OR DRY), AND THE DESIRED FINAL FINISH. SEE OUR POLISHING STONE APPLICATION CHART ABOVE FOR A DETAILED GUIDE.

BREAKDOWN IS BASED ON A SCALE OF 0 TO 5, WHERE 0 IS SLOW AND 5 IS FAST.

HARDNESS IS BASED ON A SCALE OF 0 TO 5, WHERE 0 IS SOFT AND 5 IS HARD.

REFERENCE: SEE SPI MOLD FINISHING GUIDE PG 66

SOME OF OUR MOST POPULAR STONE SHAPES

Inches (mm)

- 1/2 x 1 (13 x 25)
- 1/2 x 1/2 (13 x 13)
- 3/8 x 3/8 (10 x 10)
- 1/4 x 1 (6 x 25)
- 1/4 x 1/2 (6 x 13)
- 1/4 x 1/4 (6 x 6)
- 1/8 x 1 (3 x 25)
- 1/8 x 1/2 (3 x 13)
- 1/8 x 1/4 (3 x 6)
- 5/32 x 5/32 (4 x 4)
- 1/8 x 1/8 (3 x 3)
- 1/16 x 1/4 (1.5 x 6)
- 1/16 x 1/2 (1.5 x 13)
- 1/2 (13) triangle
- 3/8 (10) triangle
- 1/4 (6) triangle
- 1/2 (13) circle
- 3/8 (10) circle
- 3/8 (10) circle
- 1/4 (6) circle

COMMITTED TO PROVIDING THE HIGHEST QUALITY ABRASIVE PRODUCTS.

STONING BASICS

WHEN CHOOSING A STONE TO BEGIN POLISHING A MOLD OR DIE THERE ARE MANY FACTORS THAT MUST BE CONSIDERED

MOLD MATERIAL

STEEL (P20, STAINLESS STEEL, H13, D2)	NON FERROUS (ALUMINUM, BRONZE)
---------------------------------------	--------------------------------

MATERIAL HARDNESS

SOFT	HARD	HEAT TREATED
------	------	--------------

SHAPE OF MOLD SURFACE

FLAT	RADIUS	RIB OR SLOT	DETAIL AREA
------	--------	-------------	-------------

FINISH QUALITY LEFT BY THE MACHINING PROCESS

EDM	MILLING	GRINDING
-----	---------	----------

DESIRED FINAL FINISH

IN GENERAL, IT IS ALWAYS BETTER TO START WITH A FINER STONE. IF A COARSER STONE IS NEEDED, YOU CAN ALWAYS GO COARSER TO ACHIEVE THE BEST RESULT. IN MOST CASES, YOU CAN START WITH A 220 GRIT STONE FOR CONVENTIONAL MACHINED SURFACES. EDM SURFACES MAY REQUIRE A COARSER GRIT STONE TO REMOVE THE HARD RE-CAST LAYER.

ALWAYS USE A LUBRICANT WITH HARDER STONES TO PREVENT STONE LOADING.

GROUND SURFACES:

A FINER STONE CAN BE USED TO START THE POLISHING PROCESS.

RADIUS SURFACES:

IT IS GOOD TO USE A SOFTER STONE THAT WILL TAKE THE SHAPE OF THE MOLD.

FOR DETAIL AREAS THAT REQUIRE A MOLD FEATURE TO BE MAINTAINED:

IT IS BETTER TO USE A HARDER STONE THAT WILL KEEP ITS SHAPE.



TIPS FOR POLISHING RIBS & SLOTS

MOLD MAKERS AND MOLD POLISHERS HAVE BEEN FACED FOR YEARS WITH POLISHING THIN RIBS AND SLOTS. THE PRESSURE FOR WEIGHT REDUCTION AND MATERIAL SAVINGS IN PLASTIC PARTS IS INCREASING. IN ORDER TO ACHIEVE THIS, MOLD DESIGNERS ARE MAKING RIBS AND SLOTS SMALLER AND MORE ABUNDANT. REMOVING THE EDM SCALE FROM THESE MOLD FEATURES BECOMES EVEN MORE CHALLENGING. MOLD MAKERS AND POLISHERS NEED THESE SIGNIFICANT TIME REDUCTIONS TO REMAIN COMPETITIVE IN TODAY'S MARKET.

FOLLOWING ARE THE RECOMMENDED TOOLS THAT WILL ALLOW MOLD POLISHERS TO INCREASE THEIR EFFICIENCY AND DECREASE TIME SPENT ON RIBS AND SLOTS.

TURBO-LAP LINEAR AND TURBO-LAP SWING

- THESE SHORT STROKE PROFILERS ARE THE BACKBONE OF THIS POLISHING TECHNIQUE.
- AIR OPERATED PROFILERS THAT PRODUCE 12,000 TO 22,000 STROKES PER MINUTE.
- EFFECTIVE AND EFFICIENT CUTTING ACTION ACHIEVED BY USING LIGHT DOWNWARD PRESSURE AND CIRCULAR MOTION DURING OPERATION.
- CLEAN, DRY 80 PSI AIR IS NEEDED TO ENSURE TROUBLE FREE OPERATION OF THIS TOOL.

CERAMIC SUPER STONES

- EXTREMELY STRONG AND THIN FOR TIGHT RIBS AND SLOTS - EXCELLENT FOR EDM REMOVAL ON THE BOTTOM OF RIBS AND SLOTS.
- CERAMIC SUPER STONES ARE BEST USED FOR PUTTING THE FINAL FINISH ON A RIB OR SLOT.
- CERAMIC SUPER STONES ARE ALSO VERY EFFECTIVE WHEN USED WITH THE TURBO-LAP PROFILERS.
- HAND POLISHING WITH CERAMIC SUPER STONES IS ALSO POSSIBLE IN AREAS NOT SUITABLE FOR HIGH SPEED POLISHING.

RIB LIGHT AND RIB LIGHT REACH

- HIGH INTENSITY PEN LIGHTS THAT ARE EXCELLENT FOR ILLUMINATING THOSE HARD TO SEE SPOTS LIKE RIBS AND SLOTS.
- ALLOWS THE MOLD MAKER AND POLISHER TO SEE AND ENSURE ALL EDM SCALE IS REMOVED FROM THE RIBS AND SLOTS.
- RIB LIGHT REACH OFFERS A LONG, FLEXIBLE NECK.

MOLD POLISHING BASICS (TIPS & TRICKS)

1. ALWAYS SHAPE THE MOLD POLISHING STONE ON A BENCH GRINDER OR COARSE ABRASIVE PAPER TO PROVIDE MAXIMUM CONTACT WITH THE WORK SURFACE.
2. WHENEVER POSSIBLE, USE GOOD QUALITY STONING LUBRICANTS (AND DON'T SKIMP). THIS WILL PREVENT THE MOLD POLISHING STONE FROM LOADING, PARTICULARLY WITH HARDER STONES.
3. HOLD THE POLISHING STONE FIRMLY FOR DIRECTIONAL CONTROL, BUT PRESS HARD ENOUGH TO MAKE THE STONE CUT.
4. ALL POLISHING STONE MARKS FROM THE PREVIOUS GRIT SIZE MUST BE COMPLETELY REMOVED (CROSSED OUT). CHANGE STONING DIRECTION BY AT LEAST 45% WITH EACH SUCCESSIVE GRIT.
5. AFTER EACH GRIT CHANGE, CLEAN THE WORK AREA THOROUGHLY TO REMOVE ALL LARGER ABRASIVE GRAIN PARTICLES.
6. TO AVOID CONTAMINATION, KEEP EACH SPECIFIC GRIT OF STONE IN A SEPARATE STONING LUBRICANT CONTAINER. THIS IS IMPORTANT AND OFTEN OVERLOOKED.
7. DON'T ROLL SHARP EDGES AND PARTING LINES. USE MASKING TAPE TO PREVENT STONING OVER PARTING LINES.
8. FINISH STONE WITH A 320 GRIT ONLY PRIOR TO SENDING MOLD CAVITIES/CORES TO BE HEAT TREATED.
9. WHEN USING POLISHING EQUIPMENT FOR STONING (PROFILER, ULTRASONIC POLISHER, ETC.), USE MODERATE SPEED AND PRESSURE ONLY. EXCESSIVE SPEED AND PRESSURE CAN CAUSE MINUTE STRESSES OF THE METAL SURFACE RESULTING IN "ORANGE PEEL".

LOOKING TO ACHIEVE A DIAMOND FINISH?

FOLLOW THESE STEPS TO ACHIEVE AN SPI #1 OR SPI #2 FINISH USING BORIDE POLISHING STONES, DIAMOND COMPOUND, MINIATURE BRUSHES, FELT, AND ROTARY EQUIPMENT!

1. THE FIRST STEP WITH DIAMOND POLISHING IS TO FIND AN AREA IN THE SHOP THAT IS CLEAN AND IS AWAY FROM OTHER MACHINING AND POLISHING OPERATIONS. AIRBORNE DUST AND GRIT CAN GREATLY AFFECT THE FINAL FINISH DURING THE DIAMOND POLISHING PROCESS. MAKE EVERY EFFORT TO ELIMINATE THESE CONDITIONS.
2. MAKE SURE ALL STONING MARKS ARE BROUGHT TO A 600 OR FINER GRIT FINISH ON THE MOLD SURFACE. BORIDE MANUFACTURES A LARGE SELECTION OF MADE IN USA POLISHING STONES IN BOTH ALUMINUM OXIDE AND SILICON CARBIDE FORMULATIONS IN GRITS RANGING FROM 80 TO 1200. REFERENCE OUR POLISHING STONE APPLICATION CHART TO HELP CHOOSE THE RIGHT STONE FOR YOUR JOB.
3. THE MOLD SURFACE MUST BE CLEANED EXTREMELY WELL BEFORE MOVING ON TO THE NEXT STEP. ALL 600 OR FINER GRIT STONE RESIDUE MUST BE CLEANED FROM THE MOLD SURFACE.
4. NEXT, USE A MINIATURE BRUSH ON A ROTARY TOOL WITH EITHER GRADE #30 RED OR GRADE #15 DARK BLUE DIAMOND COMPOUND TO REMOVE STONING MARKS. USE DIAMOND THINNER TO THIN THE SLURRY AND EXTEND THE LIFE OF THE DIAMOND COMPOUND. USE A SLOW ROTARY SPEED AND LIGHT PRESSURE. IF HEAVY PRESSURE IS USED IT CAN CAUSE A SURFACE CONDITION CALLED "ORANGE PEEL". THIS CAN BE CAUSED BY OVER-STRESSING THE MOLD SURFACE WITH EXCESSIVE HEAT CREATED BY TOO MUCH PRESSURE AND SPEED.
5. WHEN ALL STONING MARKS ARE REMOVED, CLEAN THE MOLD SURFACE. CLEANING IS A VERY CRITICAL PART OF THIS POLISHING PROCESS. EXTRA CARE MUST BE USED TO MAKE SURE ALL PREVIOUS GRADE DIAMOND COMPOUND IS REMOVED. IT IS RECOMMENDED TO USE A VERY SOFT TISSUE TO CLEAN THE SURFACE. THIS WILL HELP ELIMINATE UNWANTED SCRATCHES DURING THE CLEANING PROCESS.
6. NEXT, USE A MEDIUM TO HARD FELT BOB WITH GRADE #15 DARK BLUE OR GRADE #9 GREEN DIAMOND COMPOUND TO REMOVE ALL BRUSH MARKS FROM THE PREVIOUS POLISHING STEP.
7. AGAIN, CLEAN THE MOLD SURFACE AND BE SURE ALL THE PREVIOUS GRADE DIAMOND COMPOUND IS REMOVED.
8. NEXT, USE A MEDIUM OR SOFT FELT BOB WITH GRADE #9 GREEN OR GRADE #6 ORANGE DIAMOND COMPOUND.
9. AGAIN, CLEAN THE MOLD SURFACE AND BE SURE ALL THE PREVIOUS GRADE DIAMOND COMPOUND IS REMOVED.
10. NEXT, USE A SOFT FELT BOB WITH GRADE #3 YELLOW DIAMOND COMPOUND TO ACHIEVE THE SPI #2 FINISH.
11. IF YOU NEED A SPI #1 FINISH, CLEAN THE MOLD SURFACE AND THEN USE GRADE #1 WHITE OR FINER DIAMOND COMPOUND WITH A SOFT FELT BOB.



AM-8 - EDM POLISHING STONE

DESIGNED FOR REMOVING EDM SCALE ON ALL TYPES OF MOLD AND DIE STEEL EITHER BY HAND OR WITH POLISHING MACHINES.

- ALUMINUM OXIDE
- HARD STRUCTURE, SLOW BREAKDOWN
- EXCELLENT FOR POLISHING SHARP CORNERS AND SMALL DETAILS
- GREAT FOR USE ON HEAT TREATED STEELS

Available in 100-1200 grit and a wide variety of sizes including round and triangle shapes.

REFERENCE: SEE SPI MOLD FINISHING GUIDE PG 66



HAND



PROFILER



WET



ULTRASONIC



MOST POPULAR

QTY: 12 PIECES/BOX EXCEPT FOR 1" DEPTH (6PC)

AM-8		GRITS					
		100	120	150	180	220	320
1/16"	1/16 X 1/4 X 6"	BOR020010	BOR020120	BOR020230	BOR020340	BOR020450	BOR020670
	1/16 X 1/2 X 6"	BOR020020	BOR020130	BOR020240	BOR020350	BOR020460	BOR020680
1/8"	1/8 X 1/8 X 6"	BOR020030	BOR020140	BOR020250	BOR020360	BOR020470	BOR020690
	1/8 X 1/4 X 6"	BOR020040	BOR020150	BOR020260	BOR020370	BOR020480	BOR020700
	1/8 X 1/2 X 6"	BOR020050	BOR020160	BOR020270	BOR020380	BOR020490	BOR020710
	1/8 X 1 X 6"	BOR020060	BOR020170	BOR020280	BOR020390	BOR020500	BOR020720
5/32"	5/32 X 5/32 X 6"	BOR020070	BOR020180	BOR020290	BOR020400	BOR020510	BOR020730
1/4"	1/4 X 1/4 X 6"	BOR020090	BOR020200	BOR020310	BOR020420	BOR020530	BOR020750
	1/4 X 1/2 X 6"	BOR020100	BOR020210	BOR020320	BOR020430	BOR020540	BOR020760
	1/4 X 1 X 6"	BOR020110	BOR020220	BOR020330	BOR020440	BOR020550	BOR020770
3/8"	3/8 X 3/8 X 6"	BOR020112	BOR020222	BOR020332	BOR020442	BOR020552	BOR020772
SHAPES	1/4 X ROUND X 5.5"	BOR020114	BOR020227	BOR020334	BOR020447	BOR020557	BOR020777
	3/8 X ROUND X 5.5"	BOR020116	BOR020228	BOR020336	BOR020448	BOR020558	BOR020778
	1/4 X TRIANGLE X 6"	BOR020118	BOR020224	BOR020338	BOR020444	BOR020554	BOR020774
	3/8 X TRIANGLE X 6"	BOR020119	BOR020225	BOR020339	BOR020445	BOR020555	BOR020775

AM-8		GRITS				
		400	600	800	1000	1200
1/16"	1/16 X 1/4 X 6"	BOR020780	BOR021000	BOR078500	BOR078520	BOR078540
	1/16 X 1/2 X 6"	BOR020790	BOR021010	BOR078501	BOR078521	BOR078541
1/8"	1/8 X 1/8 X 6"	BOR020800	BOR021020	BOR078502	BOR078522	BOR078542
	1/8 X 1/4 X 6"	BOR020810	BOR021030	BOR078503	BOR078523	BOR078543
	1/8 X 1/2 X 6"	BOR020820	BOR021040	BOR078504	BOR078524	BOR078544
	1/8 X 1 X 6"	BOR020830	BOR021050	BOR078505	BOR078525	BOR078545
5/32"	5/32 X 5/32 X 6"	BOR020840	BOR021060	BOR078506	BOR078526	BOR078546
1/4"	1/4 X 1/4 X 6"	BOR020860	BOR021080	BOR078507	BOR078527	BOR078547
	1/4 X 1/2 X 6"	BOR020870	BOR021090	BOR078508	BOR078528	BOR078548
	1/4 X 1 X 6"	BOR020880	BOR021100	BOR078509	BOR078529	BOR078549
3/8"	3/8 X 3/8 X 6"	BOR020885	BOR021102	BOR078510	BOR078530	BOR078550
SHAPES	1/4 X ROUND X 5.5"	BOR020887	BOR021107	BOR078511	BOR078531	BOR078551
	3/8 X ROUND X 5.5"	BOR020889	BOR021108	BOR078512	BOR078532	BOR078552
	1/4 X TRIANGLE X 6"	BOR020900	BOR021104	BOR078513	BOR078533	BOR078553
	3/8 X TRIANGLE X 6"	BOR020902	BOR021105	BOR078514	BOR078534	BOR078554

ONLY CONVENTIONAL POLISHING STONE TO BE USED IN AN ULTRASONIC POLISHER.



AS-9 - EDM POLISHING STONE

THE SPECIAL FORMULATION PROVIDES A FAST, AND SMOOTH CUTTING ACTION DURING HAND STONING. SOFTER THAN AM-8.

- ALUMINUM OXIDE
- MEDIUM-HARD STRUCTURE, SLOW BREAKDOWN
- FOR CUTTING AND MACHINING MARKS ON ALL TYPES OF MOLD AND DIE STEELS
- CAN BE USED WET OR DRY

Available in 100-1200 grit and a wide variety of sizes.

REFERENCE: SEE SPI MOLD FINISHING GUIDE PG 66



HAND



PROFILER



WET



DRY



MOST POPULAR

QTY: 12 PIECES/BOX EXCEPT FOR 1" DEPTH (6PC)

AS-9		GRITS					
		100	120	150	180	220	280
1/16"	1/16 X 1/4 X 6"	BOR021150	BOR021260	BOR021370	BOR021480	BOR021590	BOR021700
	1/16 X 1/2 X 6"	BOR021160	BOR021270	BOR021380	BOR021490	BOR021600	BOR021710
1/8"	1/8 X 1/8 X 6"	BOR021170	BOR021280	BOR021390	BOR021500	BOR021610	BOR021720
	1/8 X 1/4 X 6"	BOR021180	BOR021290	BOR021400	BOR021510	BOR021620	BOR021730
	1/8 X 1/2 X 6"	BOR021190	BOR021300	BOR021410	BOR021520	BOR021630	BOR021740
	1/8 X 1 X 6"	BOR021200	BOR021310	BOR021420	BOR021530	BOR021640	BOR021750
5/32"	5/32 X 5/32 X 6"	BOR021210	BOR021320	BOR021430	BOR021540	BOR021650	BOR021760
1/4"	1/4 X 1/4 X 6"	BOR021230	BOR021340	BOR021450	BOR021560	BOR021670	BOR021780
	1/4 X 1/2 X 6"	BOR021240	BOR021350	BOR021460	BOR021570	BOR021680	BOR021790
	1/4 X 1 X 6"	BOR021250	BOR021360	BOR021470	BOR021580	BOR021690	BOR021800
3/8"	3/8 X 3/8 X 6"	BOR021277	BOR021377	BOR021577	BOR021677	BOR021777	BOR021877
1/2"	1/2 X 1 X 6"	BOR021253	BOR021363	BOR021473	BOR021583	BOR021693	BOR022245

AS-9		GRITS					
		320	400	600	800	1000	1200
1/16"	1/16 X 1/4 X 6"	BOR021810	BOR021920	BOR022140	BOR032005	BOR032055	BOR032105
	1/16 X 1/2 X 6"	BOR021820	BOR021930	BOR022150	BOR032010	BOR032060	BOR032110
1/8"	1/8 X 1/8 X 6"	BOR021830	BOR021940	BOR022160	BOR032015	BOR032065	BOR032115
	1/8 X 1/4 X 6"	BOR021840	BOR021950	BOR022170	BOR032020	BOR032070	BOR032120
	1/8 X 1/2 X 6"	BOR021850	BOR021960	BOR022180	BOR032025	BOR032075	BOR032125
	1/8 X 1 X 6"	BOR021860	BOR021970	BOR022190	BOR032030	BOR032080	BOR032130
5/32"	5/32 X 5/32 X 6"	BOR021870	BOR021980	BOR022200	BOR032035	BOR032085	BOR032135
1/4"	1/4 X 1/4 X 6"	BOR021890	BOR022000	BOR022220	BOR032040	BOR032090	BOR032140
	1/4 X 1/2 X 6"	BOR021900	BOR022010	BOR022230	BOR032045	BOR032095	BOR032145
	1/4 X 1 X 6"	BOR021910	BOR022020	BOR022240	BOR032050	BOR032100	BOR032150
3/8"	3/8 X 3/8 X 6"	BOR021977	BOR022077	BOR022177	BOR022277	BOR022377	BOR032146
1/2"	1/2 X 1 X 6"	BOR021913	BOR022023	BOR022243	BOR022250	BOR022255	BOR022260

AS-9 PLUS		GRITS			
		320	400	600	800
1/8"	1/8 X 1/4 X 6"	BOR023059	BOR023061	BOR023062	BOR023071
	1/8 X 1/2 X 6"	BOR023063	BOR023064	BOR023065	BOR023072
1/4"	1/4 X 1/2 X 6"	BOR023066	BOR023067	BOR023068	BOR023069
	1/4 X 1 X 6"	BOR023074	BOR023075	BOR023076	BOR023077
1/2"	1/2 X 1 X 6"	BOR023081	BOR023082	BOR023083	BOR023084

ENGINEERED TO PRODUCE THE SAME FAST, SMOOTH CUTTING ACTION YOU CAN EXPECT FROM THE AS-9, BUT WITH SUPERIOR FINISHING CAPABILITIES.



ORANGE EDM - EDM POLISHING STONE

EXCELLENT STONE FOR FAST EDM SCALE REMOVAL WITH CONSISTENT BREAKDOWN AND SMOOTH CUTTING ACTION.

- ALUMINUM OXIDE
- MEDIUM-SOFT STRUCTURE, MODERATE BREAKDOWN
- HOLDS ITS SHAPE WITH CONSISTENT CUTTING
- GREAT FOR MOLDS WITH CONTOURS

Available in 100-600 grit and a wide variety of sizes including round and triangle shapes.

REFERENCE: SEE SPI MOLD FINISHING GUIDE PG 66



HAND



PROFILER



WET



DRY



MOST POPULAR

QTY: 12 PIECES/BOX EXCEPT FOR 1" DEPTH (6PC)

ORANGE EDM		GRITS					
		120	180	220	320	400	600
1/16"	1/16 X 1/4 X 6"	BOR082005	BOR082080	BOR082203	BOR082307	BOR082405	BOR082604
	1/16 X 1/2 X 6"	BOR082011	BOR082085	BOR082215	BOR082311	BOR082412	BOR082606
1/8"	1/8 X 1/8 X 6"	BOR082015	BOR082101	BOR082219	BOR082319	BOR082417	BOR082615
	1/8 X 1/4 X 6"	BOR082019	BOR082115	BOR082225	BOR082322	BOR082419	BOR082619
	1/8 X 1/2 X 6"	BOR082021	BOR082120	BOR082230	BOR082325	BOR082421	BOR082623
	1/8 X 1 X 6"	BOR082023	BOR082126	BOR082232	BOR082330	BOR082425	BOR082627
5/32"	5/32 X 5/32 X 6"	BOR082029	BOR082129	BOR082236	BOR082335	BOR082430	BOR082633
1/4"	1/4 X 1/4 X 6"	BOR082035	BOR082137	BOR082239	BOR082340	BOR082439	BOR082637
	1/4 X 1/2 X 6"	BOR082042	BOR082142	BOR082242	BOR082342	BOR082442	BOR082642
	1/4 X 1 X 6"	BOR082045	BOR082149	BOR082252	BOR082346	BOR082455	BOR082659
3/8"	3/8 X 3/8 X 6"	BOR082055	BOR082144	BOR082254	BOR082355	BOR082457	BOR082661
SHAPES	1/4 X ROUND X 6"	BOR082083	BOR082145	BOR082283	BOR082367	BOR082471	BOR082695
	1/4 X ROUND X 6"	BOR082066	BOR082150	BOR082270	BOR082362	BOR082465	BOR082700
	3/8 X TRIANGLE X 6"	BOR082070	BOR082155	BOR082275	BOR082365	BOR082467	BOR082705

DIFFERENT GRAIN THAN AM-8 AND AS-9 MAKING IT PERFORM DIFFERENTLY



GOLDEN STAR - EDM POLISHING STONE

MADE WITH PREMIUM ALUMINUM GRAIN MAKING IT THE PERFECT ALL-AROUND ALUMINUM OXIDE STONE.

- ALUMINUM OXIDE
- MEDIUM HARDNESS, FAST BREAKDOWN
- QUICK MATERIAL REMOVAL
- CONTOURS QUICKLY
- LEAVES A SILKY, SMOOTH FINISH

Available in 150-1000 grit and a wide variety of sizes.

REFERENCE: SEE SPI MOLD FINISHING GUIDE PG 66



MOST POPULAR

QTY: 12 PIECES/BOX EXCEPT FOR 1" DEPTH (6PC)



HAND



PROFILER



WET

GOLDEN STAR		GRITS							
		150	180	220	320	400	600	800	1000
1/8"	1/8 X 1/8 X 6"	BOR088100	BOR088101	BOR088102	BOR088103	BOR088104	BOR088105	BOR088106	BOR088107
	1/8 X 1/4 X 6"	BOR088120	BOR088121	BOR088122	BOR088123	BOR088124	BOR088125	BOR088126	BOR088127
	1/8 X 1/2 X 6"	BOR088130	BOR088131	BOR088132	BOR088133	BOR088134	BOR088135	BOR088136	BOR088137
5/32"	5/32 X 5/32 X 6"	BOR088111	BOR088112	BOR088113	BOR088114	BOR088115	BOR088116	BOR088117	BOR088118
1/4"	1/4 X 1/4 X 6"	BOR088140	BOR088141	BOR088142	BOR088143	BOR088144	BOR088145	BOR088146	BOR088147
	1/4 X 1/2 X 6"	BOR088150	BOR088151	BOR088152	BOR088153	BOR088154	BOR088155	BOR088156	BOR088157
	1/4 X 1 X 6"	BOR088180	BOR088181	BOR088182	BOR088183	BOR088184	BOR088185	BOR088186	BOR088187
3/8"	3/8 X 3/8 X 6"	BOR088190	BOR088191	BOR088192	BOR088193	BOR088194	BOR088195	BOR088196	BOR088197



AM-2 - GENERAL PURPOSE POLISHING STONE

AN EXCELLENT ALL-AROUND FINISHING STONE ENGINEERED FOR HAND POLISHING ALL TYPES OF MOLD AND DIE STEELS.

- ALUMINUM OXIDE
- SOFT ACTION WITH A QUICK BREAKDOWN
- CAN BE USED WET OR DRY
- CAN BE USED ON ALL TYPES OF MATERIALS

Available in 120-1000 grit and a wide variety of sizes including round and triangle shapes.

REFERENCE: SEE SPI MOLD FINISHING GUIDE PG 66



MOST POPULAR

QTY: 12 PIECES/BOX EXCEPT FOR 1" DEPTH (6PC)



HAND



PROFILER



WET



DRY

AM-2		GRITS				
		100	150	180	220	280
1/16"	1/16 X 1/4 X 6"	BOR023210	BOR023340	BOR023465	BOR023600	BOR023730
	1/16 X 1/2 X 6"	BOR023220	BOR023350	BOR023470	BOR023610	BOR023735
1/8"	1/8 X 1/8 X 6"	BOR023230	BOR023360	BOR023490	BOR023620	BOR023740
	1/8 X 1/4 X 6"	BOR023240	BOR023370	BOR023500	BOR023630	BOR023760
	1/8 X 1/2 X 6"	BOR023250	BOR023380	BOR023510	BOR023640	BOR023770
	1/8 X 1 X 6"	BOR023260	BOR023390	BOR023520	BOR023650	BOR023780
5/32"	5/32 X 5/32 X 6"	BOR023270	BOR023400	BOR023530	BOR023660	BOR023785
1/4"	1/4 X 1/4 X 6"	BOR023290	BOR023420	BOR023550	BOR023680	BOR023810
	1/4 X 1/2 X 6"	BOR023300	BOR023430	BOR023560	BOR023690	BOR023820
	1/4 X 1 X 6"	BOR023310	BOR023440	BOR023570	BOR023700	BOR023830
3/8"	3/8 X 3/8 X 6"	BOR023315	BOR023445	BOR023575	BOR023705	BOR023835
1/2"	1/2 X 1/2 X 6"	BOR023320	BOR023450	BOR023580	BOR023710	BOR023840
	1/2 X 1 X 6"	BOR023330	BOR023460	BOR023590	BOR023720	BOR023850
1"	1 X 1 X 6"	BOR023331	BOR023461	BOR023591	BOR023721	BOR023851
SHAPES	1/4 X ROUND X 5.5"	BOR023336	BOR023466	BOR023593	BOR023726	BOR023852
	3/8 X ROUND X 5.5"	BOR023337	BOR023467	BOR023594	BOR023727	BOR023853
	1/2 X ROUND X 5.5"	BOR023338	BOR023468	BOR023595	BOR023728	BOR023854
	1/4 X TRIANGLE X 6"	BOR023333	BOR023463	BOR023596	BOR023723	BOR023855
	3/8 X TRIANGLE X 6"	BOR023334	BOR023464	BOR023597	BOR023724	BOR023856



AM-2 - GENERAL PURPOSE POLISHING STONE

AN EXCELLENT ALL-AROUND FINISHING STONE ENGINEERED FOR HAND POLISHING ALL TYPES OF MOLD AND DIE STEELS.

- ALUMINUM OXIDE
- SOFT ACTION WITH A QUICK BREAKDOWN
- CAN BE USED WET OR DRY
- CAN BE USED ON ALL TYPES OF MATERIALS

Available in 120-1000 grit and a wide variety of sizes including round and triangle shapes.

REFERENCE: SEE SPI MOLD FINISHING GUIDE PG 66



HAND



PROFILER



WET



DRY



MOST POPULAR

QTY: 12 PIECES/BOX EXCEPT FOR 1" DEPTH (6PC)

AM-2		GRITS				
		320	400	600	900	1200
1/16"	1/16 X 1/4 X 6"	BOR023860	BOR023990	BOR024250	BOR024510	BOR077870
	1/16 X 1/2 X 6"	BOR023870	BOR024000	BOR024260	BOR024520	BOR077871
1/8"	1/8 X 1/8 X 6"	BOR023880	BOR024010	BOR024270	BOR024530	BOR077872
	1/8 X 1/4 X 6"	BOR023890	BOR024020	BOR024280	BOR024540	BOR077873
	1/8 X 1/2 X 6"	BOR023900	BOR024030	BOR024290	BOR024550	BOR077874
	1/8 X 1 X 6"	BOR023910	BOR024040	BOR024300	BOR024560	BOR077875
5/32"	5/32 X 5/32 X 6"	BOR023920	BOR024050	BOR024310	BOR024570	BOR077876
1/4"	1/4 X 1/4 X 6"	BOR023940	BOR024070	BOR024330	BOR024590	BOR077877
	1/4 X 1/2 X 6"	BOR023950	BOR024080	BOR024340	BOR024600	BOR077878
	1/4 X 1 X 6"	BOR0238960	BOR024090	BOR024350	BOR024610	BOR077879
3/8"	3/8 X 3/8 X 6"	BOR023965	BOR024095	BOR024355	BOR024615	BOR077880
1/2"	1/2 X 1/2 X 6"	BOR023970	BOR024100	BOR024360	BOR024620	BOR077881
	1/2 X 1 X 6"	BOR023980	BOR024110	BOR024370	BOR024630	BOR077882
1"	1 X 1 X 6"	BOR023981	BOR024111	BOR024371	BOR024635	BOR077883
SHAPES	1/4 X ROUND X 5.5"	BOR023986	BOR024116	BOR024376	BOR024636	BOR077884
	3/8 X ROUND X 5.5"	BOR023987	BOR024117	BOR024377	BOR024645	BOR077885
	1/2 X ROUND X 5.5"	BOR023988	BOR024118	BOR024378	BOR024650	BOR077886
	1/4 X TRIANGLE X 6"	BOR023983	BOR024113	BOR024379	BOR024655	BOR077887
	3/8 X TRIANGLE X 6"	BOR023984	BOR024114	BOR024375	BOR024660	BOR077888



DIE STONE - GENERAL PURPOSE POLISHING STONE

ENGINEERED FOR USE ON ALL TOOL STEELS. IT PROVIDES A CONSISTENT BREAKDOWN AND FAST CUTTING ACTION.

- ALUMINUM OXIDE
- MEDIUM STRUCTURE, MODERATE BREAKDOWN
- HARDER THAN THE AM-2
- ENGINEERED FOR USE ON BOTH HARD AND SOFT TOOL STEELS
- CAN BE USED WET OR DRY

Available in 150-600 grit and a wide variety of sizes including round and triangle shapes.

REFERENCE: SEE SPI MOLD FINISHING GUIDE PG 66

MOST POPULAR

QTY: 12 PIECES/BOX EXCEPT FOR 1" DEPTH (6PC)



HAND



PROFILER



WET



DRY

DIE STONE		GRITS					
		150	180	220	320	400	600
1/16"	1/16 X 1/4 X 6"	BOR081017	BOR081070	BOR081203	BOR081323	BOR081405	BOR081611
	1/16 X 1/2 X 6"	BOR081012	BOR081075	BOR081210	BOR081324	BOR081409	BOR081620
1/8"	1/8 X 1/8 X 6"	BOR081015	BOR081112	BOR081215	BOR081329	BOR081412	BOR081625
	1/8 X 1/4 X 6"	BOR081019	BOR081117	BOR081223	BOR081333	BOR081419	BOR081629
	1/8 X 1/2 X 6"	BOR081022	BOR081123	BOR081225	BOR081335	BOR081421	BOR081631
	1/8 X 1 X 6"	BOR081025	BOR081128	BOR081231	BOR081336	BOR081422	BOR081633
5/32"	5/32 X 5/32 X 6"	BOR081030	BOR081135	BOR081235	BOR081339	BOR081425	BOR081639
1/4"	1/4 X 1/4 X 6"	BOR081037	BOR081139	BOR081236	BOR081340	BOR081436	BOR081640
	1/4 X 1/2 X 6"	BOR081042	BOR081142	BOR081242	BOR081342	BOR081442	BOR081642
	1/4 X 1 X 6"	BOR081045	BOR081149	BOR081273	BOR081349	BOR081449	BOR081646
3/8"	3/8 X 3/8 X 6"	BOR081048	BOR081150	BOR081278	BOR081353	BOR081452	BOR081655
1/2"	1/2 X 1/2 X 6"	BOR081053	BOR081154	BOR081283	BOR081354	BOR081455	BOR081662
	1/2 X 1 X 6"	BOR081057	BOR081157	BOR081286	BOR081355	BOR081460	BOR081664
1"	1 X 1 X 6"	BOR081062	BOR081163	BOR081289	BOR081359	BOR081465	BOR081669
SHAPES	1/4 X ROUND X 5.5"	BOR081073	BOR081165	BOR081295	BOR081367	BOR081488	BOR081670
	3/8 X ROUND X 5.5"	BOR081078	BOR081167	BOR081297	BOR081371	BOR081489	BOR081675
	1/2 X ROUND X 5.5"	BOR081099	BOR081169	BOR081299	BOR081374	BOR081495	BOR081680
	1/4 X TRIANGLE X 6"	BOR081065	BOR081170	BOR081290	BOR081361	BOR081469	BOR081685
	3/8 X TRIANGLE X 6"	BOR081069	BOR081175	BOR081291	BOR081364	BOR081470	BOR081690



AM-K - GENERAL PURPOSE POLISHING STONE

A WHITE ALUMINUM OXIDE STONE OF MEDIUM HARDNESS THAT PERFORMS WELL ON ALL TYPES OF MOLD STEEL.

- ALUMINUM OXIDE
- MEDIUM-HARD STRUCTURE, MODERATE BREAKDOWN
- USED DRY FOR ROUGH FORMING AND REMOVAL OF MACHINE MARKS
- PERFORMS WELL ON ALL TYPES OF MOLD STEEL
- CAN BE USED WET OR DRY

Available in 100-600 grit and a wide variety of sizes including round and triangle shapes.

REFERENCE: SEE SPI MOLD FINISHING GUIDE PG 66



MOST POPULAR

QTY: 12 PIECES/BOX EXCEPT FOR 1" DEPTH (6PC)



HAND



PROFILER



WET



DRY

AM-K		GRITS						
		100	150	180	220	320	400	600
1/16"	1/16 X 1/4 X 6"	BOR025980	BOR026120	BOR026260	BOR026400	BOR026680	BOR026820	BOR027100
	1/16 X 1/2 X 6"	BOR025990	BOR026130	BOR026270	BOR026410	BOR026690	BOR026830	BOR027110
1/8"	1/8 X 1/8 X 6"	BOR025995	BOR026140	BOR026280	BOR026420	BOR026700	BOR026840	BOR027120
	1/8 X 1/4 X 6"	BOR026010	BOR026150	BOR026290	BOR026430	BOR026710	BOR026850	BOR027130
	1/8 X 1/2 X 6"	BOR026020	BOR026160	BOR026300	BOR026440	BOR026720	BOR026860	BOR027140
	1/8 X 1 X 6"	BOR026030	BOR026170	BOR026310	BOR026450	BOR026730	BOR026870	BOR027150
5/32"	5/32 X 5/32 X 6"	BOR026040	BOR026180	BOR026320	BOR026460	BOR026740	BOR026880	BOR027160
1/4"	1/4 X 1/4 X 6"	BOR026060	BOR026200	BOR026340	BOR026480	BOR026760	BOR026900	BOR027180
	1/4 X 1/2 X 6"	BOR026070	BOR026210	BOR026350	BOR026490	BOR026770	BOR026910	BOR027190
	1/4 X 1 X 6"	BOR026080	BOR026220	BOR026360	BOR026500	BOR026780	BOR026920	BOR027200
3/8"	3/8 X 3/8 X 6"	BOR026085	BOR026225	BOR026365	BOR026505	BOR026785	BOR026925	BOR027205
1/2"	1/2 X 1/2 X 6"	BOR026090	BOR026230	BOR026370	BOR026510	BOR026790	BOR026930	BOR027210
	1/2 X 1 X 6"	BOR026100	BOR026240	BOR026380	BOR026520	BOR026800	BOR026940	BOR027220
1"	1 X 1 X 6"	BOR026110	BOR026250	BOR026390	BOR026530	BOR026810	BOR026950	BOR027230



AS-H - GENERAL PURPOSE POLISHING STONE

SIMILAR TO THE AM-K BUT SLIGHTLY SOFTER. DESIGN TO CONFORMS QUICKLY TO VARIED PRE-SHAPED SURFACES.

- ALUMINUM OXIDE
- SOFT STRUCTURE, FAST BREAKDOWN
- MORE SUITABLE FOR HAND HONING
- WORKS WELL ON TOOL STEELS AND NON-FERROUS MATERIALS
- CAN BE USED WET OR DRY

Available in 100-600 grit and a wide variety of sizes including round and triangle shapes.

REFERENCE: SEE SPI MOLD FINISHING GUIDE PG 66



HAND



PROFILER



WET



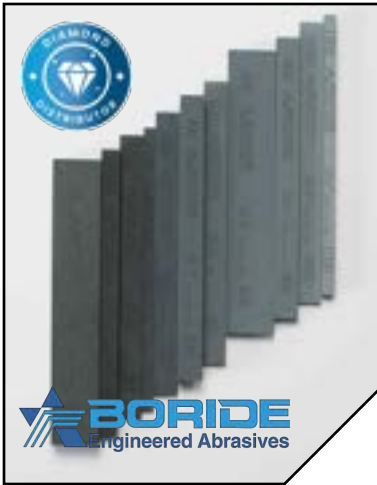
DRY



MOST POPULAR
QTY: 12 PIECES/BOX EXCEPT FOR 1" DEPTH (6PC)

AS-H		GRITS				
		100	150	180	220	320
1/8"	1/8 X 1/4 X 6"	BOR027310	BOR027450	BOR027590	BOR027730	BOR028010
	1/8 X 1/2 X 6"	BOR027320	BOR027460	BOR027600	BOR027740	BOR028020
1/4"	1/4 X 1/4 X 6"	BOR027360	BOR027500	BOR027640	BOR027780	BOR028060
	1/4 X 1/2 X 6"	BOR027370	BOR027510	BOR027650	BOR027790	BOR028070

AS-H		GRIT				
		400	600	800	1000	1200
1/8"	1/8 X 1/4 X 6"	BOR028150	BOR028430	BOR077300	BOR077310	BOR077320
	1/8 X 1/2 X 6"	BOR028160	BOR028440	BOR077301	BOR077311	BOR077321
1/4"	1/4 X 1/4 X 6"	BOR028200	BOR028480	BOR077302	BOR077312	BOR077322
	1/4 X 1/2 X 6"	BOR028210	BOR028490	BOR077303	BOR077313	BOR077323



CS - GENERAL PURPOSE POLISHING STONE (SILICON CARBIDE)

A FAST CUTTING, SOFT SILICON CARBIDE STONE DESIGNED TO CONFORM RAPIDLY TO A VARIETY OF DETAILS.

- SILICON CARBIDE
- MEDIUM-HARD STRUCTURE, MODERATE BREAKDOWN
- PERFORMS WELL ON ALL TYPES OF MOLD STEEL
- CAN BE USED WET OR DRY

Available in 100-600 grit and a wide variety of sizes including round and triangle shapes.

REFERENCE: SEE SPI MOLD FINISHING GUIDE PG 66



MOST POPULAR

QTY: 12 PIECES/BOX EXCEPT FOR 1" DEPTH (6PC)



HAND



WET



DRY

CS		GRITS				
		150	180	220	320	400
1/8"	1/8 X 1/4 X 6"	BOR024850	BOR024990	BOR025130	BOR025410	BOR025550
	1/8 X 1/2 X 6"	BOR024860	BOR025000	BOR025140	BOR025420	BOR025560
1/4"	1/4 X 1/4 X 6"	BOR024900	BOR025040	BOR025180	BOR025460	BOR025600
	1/4 X 1/2 X 6"	BOR024910	BOR025050	BOR025190	BOR025470	BOR025610
	1/4 X 1 X 6"	BOR024920	BOR025060	BOR025200	BOR025480	BOR025620
3/8"	3/8 X 3/8 X 6"	BOR024915	BOR025055	BOR025192	BOR025475	BOR025615
1/2"	1/2 X 1/2 X 6"	BOR024930	BOR025070	BOR025210	BOR025490	BOR025630
	1/2 X 1 X 6"	BOR024940	BOR025080	BOR025220	BOR025500	BOR025640

CS		GRIT			
		600	800	1000	1200
1/8"	1/8 X 1/4 X 6"	BOR025830	BOR077600	BOR077700	BOR077800
	1/8 X 1/2 X 6"	BOR025840	BOR077610	BOR077710	BOR077810
1/4"	1/4 X 1/4 X 6"	BOR025880	BOR077620	BOR077720	BOR077820
	1/4 X 1/2 X 6"	BOR025890	BOR077630	BOR077730	BOR077830
	1/4 X 1 X 6"	BOR025900	BOR077640	BOR077740	BOR077840
3/8"	3/8 X 3/8 X 6"	BOR025895	BOR077625	BOR077735	BOR077835
1/2"	1/2 X 1/2 X 6"	BOR025910	BOR077650	BOR077750	BOR077850
	1/2 X 1 X 6"	BOR025920	BOR077660	BOR077760	BOR077860



CS-M GENERAL PURPOSE POLISHING STONE (SILICON CARBIDE)

THIS PREMIUM GREEN SILICON CARBIDE ABRASIVE POLISHING STONE HAS SUPERB CUTTING ABILITIES.

- SILICON CARBIDE
- MEDIUM-SOFT STRUCTURE, MODERATE BREAKDOWN
- SPECIAL BOND MAKES IT NON-LOADING
- CAN BE USED WET OR DRY

Available in 100-1200 grit and a wide variety of sizes.

REFERENCE: SEE SPI MOLD FINISHING GUIDE PG 66



HAND



PROFILER



WET



DRY



MOST POPULAR

QTY: 12 PIECES/BOX EXCEPT FOR 1" DEPTH (6PC)

CS-M		GRITS				
		120	150	220	320	400
1/16"	1/16 X 1/2 X 6"	BOR035110	BOR035205	BOR035305	BOR035505	BOR035605
1/8"	1/8 X 1/4 X 6"	BOR035113	BOR035213	BOR035313	BOR035513	BOR035613
	1/8 X 1/2 X 6"	BOR035117	BOR035217	BOR035317	BOR035517	BOR035617
5/32"	5/32 X 5/32 X 6"	BOR035120	BOR035220	BOR035320	BOR035525	BOR035625
1/4"	1/4 X 1/4 X 6"	BOR035129	BOR035229	BOR035329	BOR035529	BOR035629
	1/4 X 1/2 X 6"	BOR035133	BOR035233	BOR035333	BOR035533	BOR035633
	1/4 X 1 X 6"	BOR035137	BOR035237	BOR035337	BOR035537	BOR035637
3/8"	3/8 X 3/8 X 6"	BOR035140	BOR035241	BOR035341	BOR035541	BOR035641
1/2"	1/2 X 1/2 X 6"	BOR035145	BOR035245	BOR035345	BOR035545	BOR035645
	1/2 X 1 X 6"	BOR035149	BOR035249	BOR035349	BOR035549	BOR035649
1"	1 X 1 X 6"	BOR035150	BOR035253	BOR035353	BOR035553	BOR035653
SHAPES	1/4 ROUND X 5.5"	BOR035155	BOR035255	BOR035373	BOR035573	BOR035673

CS-M		GRITS			
		600	800	1000	1200
1/16"	1/16 X 1/2 X 6"	BOR035805	BOR078300	BOR078320	BOR078335
1/8"	1/8 X 1/4 X 6"	BOR035813	BOR078301	BOR078321	BOR078336
	1/8 X 1/2 X 6"	BOR035817	BOR078302	BOR078322	BOR078337
5/32"	5/32 X 5/32 X 6"	BOR035825	BOR078303	BOR078323	BOR078338
1/4"	1/4 X 1/4 X 6"	BOR035829	BOR078304	BOR078324	BOR078339
	1/4 X 1/2 X 6"	BOR035833	BOR078305	BOR078325	BOR078340
	1/4 X 1 X 6"	BOR035837	BOR078306	BOR078326	BOR078341
3/8"	5/32 X 5/32 X 6"	BOR035841	BOR078307	BOR078327	BOR078342
1/2"	1/2 X 1 X 6"	BOR035845	BOR078308	BOR078328	BOR078343
	1/2 X 1 X 6"	BOR035849	BOR078309	BOR078329	BOR078344
1"	1 X 1 X 6"	BOR035853	BOR078310	BOR078330	BOR078345
SHAPES	1/4 ROUND X 5.5"	BOR035873	BOR078311	BOR078331	BOR078346



CS-HD GENERAL PURPOSE POLISHING STONE (SILICON CARBIDE)

HARDER ACTING AND SLOWER TO BREAK DOWN. IT CAN BE USED TO POLISH EVEN THE HARDEST DIE AND MOLD STEELS.

- SILICON CARBIDE
- HARD STRUCTURE, SLOW BREAKDOWN
- USED TO POLISH EVEN THE HARDEST MOLD AND DIE STEEL
- GREAT FOR HEAT TREATED STEELS
- CAN BE USED WET OR DRY

Available in 100-1200 grit and a wide variety of sizes .

REFERENCE: SEE SPI MOLD FINISHING GUIDE PG 66



HAND



PROFILER



WET



DRY



MOST POPULAR

QTY: 12 PIECES/BOX EXCEPT FOR 1" DEPTH (6PC)

CS-HD		GRITS				
		120	150	220	320	400
1/16"	1/16 X 1/2 X 6"	BOR036110	BOR036205	BOR036305	BOR036505	BOR036605
1/8"	1/8 X 1/4 X 6"	BOR036113	BOR036213	BOR036513	BOR036513	BOR036613
	1/8 X 1/2 X 6"	BOR036117	BOR036217	BOR036317	BOR036517	BOR036817
	1/8 X 1 X 6"	BOR036146	BOR036221	BOR036321	BOR036521	BOR036621
5/32"	5/32 X 5/32 X 6"	BOR036118	BOR036225	BOR036325	BOR036525	BOR036625
1/4"	1/4 X 1/4 X 6"	BOR036129	BOR036229	BOR036329	BOR036529	BOR036629
	1/4 X 1/2 X 6"	BOR036133	BOR036233	BOR036333	BOR036533	BOR036633
	1/4 X 1 X 6"	BOR036141	BOR036237	BOR036337	BOR036537	BOR036637
3/8"	3/8 X 3/8 X 6"	BOR036143	BOR036240	BOR036341	BOR036541	BOR036641
1/2"	1/2 X 1 X 6"	BOR036145	BOR036245	BOR036345	BOR036545	BOR036645
	1/2 X 1 X 6"	BOR036147	BOR036249	BOR036349	BOR036549	BOR036649
1"	1 X 1 X 6"	BOR036150	BOR036253	BOR036353	BOR036553	BOR036653

CS-HD		GRITS			
		600	800	1000	1200
1/16"	1/16 X 1/2 X 6"	BOR036805	BOR078400	BOR078420	BOR078440
1/8"	1/8 X 1/4 X 6"	BOR036813	BOR078401	BOR078421	BOR078441
	1/8 X 1/2 X 6"	BOR036817	BOR078402	BOR078422	BOR078442
	1/8 X 1 X 6"	BOR036821	BOR078404	BOR078424	BOR078443
5/32"	5/32 X 5/32 X 6"	BOR036825	BOR078403	BOR078423	BOR078444
1/4"	1/4 X 1/4 X 6"	BOR036829	BOR078405	BOR078425	BOR078445
	1/4 X 1/2 X 6"	BOR036833	BOR078406	BOR078426	BOR078446
	1/4 X 1 X 6"	BOR036835	BOR078407	BOR078427	BOR078447
3/8"	3/8 X 3/8 X 6"	BOR036840	BOR078408	BOR078428	BOR078448
1/2"	1/2 X 1 X 6"	BOR036845	BOR078409	BOR078429	BOR078449
	1/2 X 1 X 6"	BOR036850	BOR078410	BOR078430	BOR078450
1"	5/32 X 5/32 X 6"	BOR036853	BOR078411	BOR078431	BOR078451



RASP - SPECIALTY POLISHING STONE

OUR MOST VERSATILE ALL-AROUND FINISHING STONE THAT ENGINEERED TO PROVIDE AN OUTSTANDING CUT AND FINISH.

- ALUMINUM OXIDE
- MEDIUM STRUCTURE, MODERATE TO FAST BREAKDOWN
- CONTOURS QUICKLY
- CAN BE USED WET OR DRY

Available in 100-600 grit and a wide variety of sizes including round and triangle shapes.

REFERENCE: SEE SPI MOLD FINISHING GUIDE PG 66



HAND



PROFILER



WET



DRY



MOST POPULAR

QTY: 12 PIECES/BOX EXCEPT FOR 1" DEPTH (6PC)

RASP		GRITS					
		80	100	150	220	320	400
1/8"	1/8 X 1/4 X 6"	BOR056100	BOR056120	BOR056230	BOR056320	BOR056410	BOR056500
	1/8 X 1/2 X 6"	BOR056101	BOR056121	BOR056240	BOR056330	BOR056420	BOR056510
5/32"	5/32 X 5/32 X 6"	BOR056102	BOR056122	BOR056250	BOR056340	BOR056430	BOR056520
1/4"	1/4 X 1/4 X 6"	BOR056103	BOR056123	BOR056260	BOR056350	BOR056440	BOR056530
	1/4 X 1/2 X 6"	BOR056104	BOR056124	BOR056270	BOR056360	BOR056450	BOR056540
	1/4 X 1 X 6"	BOR056105	BOR056125	BOR056280	BOR056370	BOR056460	BOR056550
1/2"	1/2 X 1/2 X 6"	BOR056106	BOR056126	BOR056290	BOR056380	BOR056470	BOR056560
	1/2 X 1 X 6"	BOR056107	BOR056127	BOR056300	BOR056390	BOR056480	BOR056570
1"	1 X 1 X 6"	BOR056108	BOR056128	BOR056310	BOR056400	BOR056490	BOR056580

RASP		GRITS		
		600	900	1200
1/8"	1/8 X 1/4 X 6"	BOR056590	BOR056700	BOR077900
	1/8 X 1/2 X 6"	BOR056595	BOR056710	BOR077901
5/32"	5/32 X 5/32 X 6"	BOR056610	BOR056720	BOR077902
1/4"	1/4 X 1/4 X 6"	BOR056620	BOR076730	BOR077903
	1/4 X 1/2 X 6"	BOR056630	BOR056740	BOR077904
	1/4 X 1 X 6"	BOR056640	BOR056750	BOR077905
1/2"	1/2 X 1/2 X 6"	BOR056650	BOR056760	BOR077906
	1/2 X 1 X 6"	BOR056660	BOR056770	BOR077907
1"	1 X 1 X 6"	BOR056670	BOR056780	BOR077908



PC - SPECIALTY POLISHING STONE

IT IS A QUICK CONTOURING FINISHING STONE DESIGNED FOR RAPID STOCK REMOVAL ON MOLDS REQUIRING A NEAR MIRROR FINISH.

- ALUMINUM OXIDE
- SOFT STRUCTURE, MODERATE TO FAST BREAKDOWN
- PERFORMS WELL ON ALL TYPES OF MOLD STEEL
- MUST BE USED WET

Available in 100-600 grit and a wide variety of sizes including round and triangle shapes.

REFERENCE: SEE SPI MOLD FINISHING GUIDE PG 66



MOST POPULAR

QTY: 12 PIECES/BOX EXCEPT FOR 1" DEPTH (6PC)



HAND



WET

PC		GRITS						
		150	220	320	400	600	900	1200
1/8"	1/8 X 1/4 X 6"	BOR059230	BOR059330	BOR059530	BOR059630	BOR059730	BOR059830	BOR059930
	1/8 X 1/2 X 6"	BOR059240	BOR059340	BOR059540	BOR059640	BOR059740	BOR059840	BOR059940
5/32"	5/32 X 5/32 X 6"	BOR059215	BOR059315	BOR059515	BOR059615	BOR059715	BOR059815	BOR059915
1/4"	1/4 X 1/4 X 6"	BOR059250	BOR059350	BOR059550	BOR059650	BOR059750	BOR059850	BOR059950
	1/4 X 1/2 X 6"	BOR059260	BOR059360	BOR059560	BOR059660	BOR059760	BOR059860	BOR059960
	1/4 X 1 X 6"	BOR059265	BOR059365	BOR059565	BOR059665	BOR059765	BOR059865	BOR059965
1/2"	1/2 X 1/2 X 6"	BOR059270	BOR059370	BOR059570	BOR059670	BOR059770	BOR059870	BOR059970
	1/2 X 1 X 6"	BOR059275	BOR059375	BOR059575	BOR059675	BOR059775	BOR059875	BOR059975
1"	1 X 1 X 6"	BOR259280	BOR059380	BOR059580	BOR059680	BOR059780	BOR059880	BOR059980



T2 - SPECIALTY POLISHING STONE

SPECIALTY TREATED MEDIUM-HARD ALUMINUM OXIDE STONE CUTS VERY FAST AND YET PROVIDES A SILKY, SMOOTH FINISH.

- ALUMINUM OXIDE
- HARD STRUCTURE, SLOW BREAKDOWN
- DESIGNED SPECIFICALLY FOR HIGH QUALITY MOLD STEEL
- MUST BE USED WET

Available in 100-600 grit and a wide variety of sizes including round and triangle shapes.

REFERENCE: SEE SPI MOLD FINISHING GUIDE PG 66



MOST POPULAR

QTY: 12 PIECES/BOX EXCEPT FOR 1" DEPTH (6PC)



HAND



PROFILER



WET

T2		GRITS							
		150	220	320	400	600	800	1000	1200
1/16"	1/16 X 1/4 X 6"	BOR036900	BOR037096	BOR037292	BOR037492	BOR037688	BOR077550	BOR077565	BOR077580
	1/16 X 1/2 X 6"	BOR036910	BOR037100	BOR037296	BOR037496	BOR037690	BOR077551	BOR077566	BOR077581
1/8"	1/8 X 1/4 X 6"	BOR036912	BOR037108	BOR037304	BOR037504	BOR037700	BOR077552	BOR077567	BOR077582
	1/8 X 1/2 X 6"	BOR036916	BOR037112	BOR037316	BOR037508	BOR037704	BOR077553	BOR077568	BOR077583
	1/8 X 1/8 X 6"	BOR036918	BOR037114	BOR037318	BOR037510	BOR037706	BOR077554	BOR077569	BOR077584
5/32"	5/32 X 5/32 X 6"	BOR036924	BOR037120	BOR037320	BOR037516	BOR037712	BOR077555	BOR077570	BOR077585
1/4"	1/4 X 1/4 X 6"	BOR036928	BOR037124	BOR037324	BOR037520	BOR037716	BOR077556	BOR077571	BOR077586
	1/4 X 1/2 X 6"	BOR036932	BOR037128	BOR037328	BOR037524	BOR037736	BOR077557	BOR077572	BOR077587
	1/4 X 1 X 6"	BOR036936	BOR037132	BOR037332	BOR037528	BOR037738	BOR077558	BOR077573	BOR077588
3/8"	3/8 X 3/8 X 6"	BOR036935	BOR037130	BOR037330	BOR037525	BOR037735	BOR077561	BOR077576	BOR077591
1/2"	1/2 X 1 X 6"	BOR036952	BOR037148	BOR037348	BOR037544	BOR037740	BOR077559	BOR077574	BOR077589
1"	1 X 1 X 6"	BOR036956	BOR037152	BOR037352	BOR037548	BOR037744	BOR077560	BOR077575	BOR077590



T4 - SPECIALTY POLISHING STONE

A SPECIALLY TREATED MEDIUM ALUMINUM OXIDE STONE THAT CUTS FAST AND LEAVES AN EXCELLENT FINISH.

- ALUMINUM OXIDE
- SOFT STRUCTURE, FAST BREAKDOWN
- WILL NOT SCRATCH OR TEAR THE SURFACE
- MUST BE USED WET

Available in 100-600 grit and a wide variety of sizes including round and triangle shapes.

REFERENCE: SEE SPI MOLD FINISHING GUIDE PG 66



MOST POPULAR
QTY: 12 PIECES/BOX EXCEPT FOR 1" DEPTH (6PC)



T4		GRITS							
		150	220	320	400	600	800	1000	1200
1/8"	1/8 X 1/4 X 6"	BOR038192	BOR038352	BOR038432	BOR038512	BOR038592	BOR077330	BOR077440	BOR077500
	1/8 X 1/2 X 6"	BOR038196	BOR038356	BOR038436	BOR038516	BOR038596	BOR077331	BOR077441	BOR077501
	5/32 X 5/32 X 6"	BOR038214	BOR038357	BOR038437	BOR038517	BOR038597	BOR077332	BOR077442	BOR077502
1/4"	1/4 X 1/4 X 6"	BOR038208	BOR038368	BOR038448	BOR038528	BOR038608	BOR077333	BOR077443	BOR077503
	1/4 X 1/2 X 6"	BOR038212	BOR038372	BOR038452	BOR038532	BOR038612	BOR077334	BOR077444	BOR077504
	1/4 X 1 X 6"	BOR038216	BOR038376	BOR038456	BOR038536	BOR038616	BOR077335	BOR077445	BOR077505
1/2"	1/2 X 1/2 X 6"	BOR038226	BOR038388	BOR038468	BOR038551	BOR038631	BOR077336	BOR077446	BOR077506
1"	1/2 X 1 X 6"	BOR038232	BOR038392	BOR038472	BOR038552	BOR038632	BOR077337	BOR077447	BOR077507



AO - SPECIALTY POLISHING STONE

THE AO OFFERS EXCELLENT BREAKDOWN WHILE RETAINING ITS SHAPE WELL, ESPECIALLY WHEN POLISHING MOLD CAVITY DETAILS.

- ALUMINUM OXIDE
- MEDIUM-HARD STRUCTURE, MODERATE BREAKDOWN
- FILLED WITH LUBRICANT DURING MANUFACTURING
- DOES NOT REQUIRE LENGTHY PRE-LUBRICATION
- MUST BE USED WET

Available in 100-600 grit and a wide variety of sizes including round and triangle shapes.

REFERENCE: SEE SPI MOLD FINISHING GUIDE PG 66



MOST POPULAR

QTY: 12 PIECES/BOX EXCEPT FOR 1" DEPTH (6PC)



HAND



PROFILER



WET

AO		GRITS				
		120	150	220	320	400
1/16"	1/16 X 1/4 X 6"	BOR033101	BOR033201	BOR033401	BOR033601	BOR033701
	1/16 X 1/2 X 6"	BOR033105	BOR033205	BOR033405	BOR033605	BOR033705
1/8"	1/8 X 1/8 X 6"	BOR033109	BOR033209	BOR033409	BOR033609	BOR033709
	1/8 X 1/4 X 6"	BOR033113	BOR033213	BOR033413	BOR033613	BOR033713
	1/8 X 1/2 X 6"	BOR033117	BOR033217	BOR033417	BOR033617	BOR033717
	1/8 X 1 X 6"	BOR033121	BOR033221	BOR033421	BOR033621	BOR033721
5/32"	5/32 X 5/32 X 6"	BOR033125	BOR033225	BOR033425	BOR033625	BOR033725
1/4"	1/4 X 1/4 X 6"	BOR033129	BOR033229	BOR033429	BOR033629	BOR033729
	1/4 X 1/2 X 6"	BOR033133	BOR033233	BOR033433	BOR033633	BOR033733
	1/4 X 1 X 6"	BOR033137	BOR033237	BOR033437	BOR033637	BOR033737
3/8"	3/8 X 3/8 X 6"	BOR033141	BOR033241	BOR033441	BOR033641	BOR033741
1/2"	1/2 X 1/2 X 6"	BOR033145	BOR033245	BOR033445	BOR033645	BOR033745
	1/2 X 1 X 6"	BOR033149	BOR033249	BOR033449	BOR033649	BOR033749
1"	1 X 1 X 6"	BOR033153	BOR033253	BOR033453	BOR033653	BOR033753
SHAPES	1/4 X ROUND X 5.5"	BOR033189	BOR033289	BOR033489	BOR033689	BOR033789
	3/8 X ROUND X 5.5"	BOR033168	BOR033293	BOR033493	BOR033693	BOR033793
	1/2 X ROUND X 5.5"	BOR033191	BOR033295	BOR033497	BOR033697	BOR033797
	1/4 TRIANGLE X 6"	BOR033171	BOR033294	BOR033471	BOR033669	BOR033769
	3/8 TRIANGLE X 6"	BOR033173	BOR033297	BOR033473	BOR033667	BOR033773
	1/2 TRIANGLE X 6"	BOR033177	BOR033300	BOR033475	BOR033665	BOR033775
	1 TRIANGLE X 6"	BOR033181	BOR033302	BOR033478	BOR033663	BOR033777



AO - SPECIALTY POLISHING STONE

THE AO OFFERS EXCELLENT BREAKDOWN WHILE RETAINING ITS SHAPE WELL, ESPECIALLY WHEN POLISHING MOLD CAVITY DETAILS.

- ALUMINUM OXIDE
- MEDIUM-HARD STRUCTURE, MODERATE BREAKDOWN
- FILLED WITH LUBRICANT DURING MANUFACTURING
- DOES NOT REQUIRE LENGTHY PRE-LUBRICATION
- MUST BE USED WET

Available in 100-600 grit and a wide variety of sizes including round and triangle shapes.

REFERENCE: SEE SPI MOLD FINISHING GUIDE PG 66



MOST POPULAR

QTY: 12 PIECES/BOX EXCEPT FOR 1" DEPTH (6PC)



HAND



PROFILER



WET

AO		GRITS			
		600	800	1000	1200
1/16"	1/16 X 1/4 X 6"	BOR033901	BOR077001	BOR077101	BOR077201
	1/16 X 1/2 X 6"	BOR033905	BOR077005	BOR077105	BOR077205
1/8"	1/8 X 1/8 X 6"	BOR033909	BOR077009	BOR077109	BOR077209
	1/8 X 1/4 X 6"	BOR033913	BOR077013	BOR077113	BOR077213
	1/8 X 1/2 X 6"	BOR033917	BOR077017	BOR077117	BOR077217
	1/8 X 1 X 6"	BOR033920	BOR077020	BOR077120	BOR077220
5/32"	5/32 X 5/32 X 6"	BOR033925	BOR077025	BOR077125	BOR077225
1/4"	1/4 X 1/4 X 6"	BOR033929	BOR077029	BOR077129	BOR077229
	1/4 X 1/2 X 6"	BOR033933	BOR077033	BOR077133	BOR077233
	1/4 X 1 X 6"	BOR033937	BOR077037	BOR077137	BOR077237
3/8"	3/8 X 3/8 X 6"	BOR033841	BOR077041	BOR077141	BOR077241
1/2"	1/2 X 1/2 X 6"	BOR033945	BOR077045	BOR077145	BOR077245
	1/2 X 1 X 6"	BOR033949	BOR077049	BOR077149	BOR077249
1"	1 X 1 X 6"	BOR033953	BOR077053	BOR077153	BOR077253
SHAPES	1/4 X ROUND X 5.5"	BOR033989	BOR077089	BOR077189	BOR077289
	3/8 X ROUND X 5.5"	BOR033993	BOR077093	BOR077193	BOR077293
	1/2 X ROUND X 5.5"	BOR033997	BOR077097	BOR077197	BOR077297
	1/4 TRIANGLE X 6"	BOR033998	BOR077098	BOR077198	BOR077298
	3/8 TRIANGLE X 6"	BOR033999	BOR077099	BOR077199	BOR077299
	1/2 TRIANGLE X 6"	BOR033991	BOR077091	BOR077191	BOR077291
	1 TRIANGLE X 6"	BOR033992	BOR077092	BOR077192	BOR077292



TH - SPECIALTY POLISHING STONE

MADE FROM PREMIUM GRADE ALUMINUM OXIDE THAT IS SPECIALLY TREATED TO PROVIDE A LOAD RESISTANT, SMOOTH CUTTING ACTION.

- ALUMINUM OXIDE
- MEDIUM-HARD STRUCTURE, MODERATE BREAKDOWN
- HOLDS ITS SHAPE
- GREAT FOR POLISHING RIBS, SLOTS, LETTERS, AND HARD TO REACH PLACES
- MUST BE USED WET

Available in 100-600 grit and a wide variety of sizes including round and triangle shapes.

REFERENCE: SEE SPI MOLD FINISHING GUIDE PG 66



MOST POPULAR

QTY: 12 PIECES/BOX EXCEPT FOR 1" DEPTH (6PC)



HAND



PROFILER



WET

TH		GRITS			
		150	220	320	400
1/8"	1/8 X 1/4 X 6"	BOR034912	BOR034108	BOR034304	BOR034504
	1/8 X 1/2 X 6"	BOR034916	BOR034112	BOR034316	BOR034508
1/4"	1/4 X 1/4 X 6"	BOR034928	BOR034124	BOR034324	BOR034520
	1/4 X 1/2 X 6"	BOR034932	BOR034128	BOR034328	BOR034524
	1/4 X 1 X 6"	BOR034936	BOR034132	BOR034332	BOR034528
3/8"	3/8 X 3/8 X 6"	BOR034934	BOR034129	BOR034329	BOR034529
1/2"	1/2 X 1 X 6"	BOR034933	BOR034125	BOR034333	BOR034536
1"	1 X 1 X 6"	BOR034937	BOR034126	BOR034334	BOR034537

TH		GRITS			
		600	800	1000	1200
1/8"	1/8 X 1/4 X 6"	BOR034700	BOR077520	BOR077530	BOR077540
	1/8 X 1/2 X 6"	BOR034704	BOR077521	BOR077531	BOR077541
1/4"	1/4 X 1/4 X 6"	BOR034716	BOR077522	BOR077532	BOR077542
	1/4 X 1/2 X 6"	BOR034736	BOR077523	BOR077533	BOR077543
	1/4 X 1 X 6"	BOR034738	BOR077524	BOR077534	BOR077544
3/8"	3/8 X 3/8 X 6"	BOR034741	BOR077527	BOR077537	BOR077547
1/2"	1/2 X 1 X 6"	BOR034737	BOR077525	BOR077535	BOR077545
1"	1 X 1 X 6"	BOR034740	BOR077526	BOR077536	BOR077546



900-F - SPECIALTY POLISHING STONE

SUPER-FINE STRUCTURE AND EXCELLENT BREAKDOWN FOR FINAL FINISHING PRIOR TO MIRROR (DIAMOND POLISHING) FINISHING.

- ALUMINUM OXIDE
- SUPER SOFT STRUCTURE, FAST BREAKDOWN
- WORKS ESPECIALLY WELL ON P-20 MOLD STEEL
- PRIMARILY USED FOR HAND FINISHING OPERATIONS
- MUST BE USED WET

Available in 100-600 grit and a wide variety of sizes including round and triangle shapes.

REFERENCE: SEE SPI MOLD FINISHING GUIDE PG 66



MOST POPULAR

QTY: 12 PIECES/BOX EXCEPT FOR 1" DEPTH (6PC)



HAND



WET

900-F		GRITS
		900
1/8"	1/8 X 1/4 X 6"	BOR028600
	1/8 X 1/2 X 6"	BOR028610
1/4"	1/4 X 1/4 X 6"	BOR028630
	1/4 X 1/2 X 6"	BOR028640
	1/4 X 1 X 6"	BOR028650
1/2"	1/2 X 1 X 6"	BOR028660
SHAPES	1/4 X TRIANGLE X 6"	BOR028672



BORIDE MOLD REPAIR STARTER KIT

THIS CONVENIENT, ALL-IN-ONE MOLD REPAIR & POLISHING KIT INCLUDES A VARIETY OF OUR MOST POPULAR PRODUCTS TO GET YOU FROM START TO THE FINAL FINISH.

- MOLD REPAIR STARTER KIT COMES IN A PORTABLE LIGHTWEIGHT PLASTIC CASE
- CAN BE CARRIED DIRECTLY TO THE MOLD FOR INSTANT REPAIR OR STORED AT YOUR WORKSTATION
- POLISHING STONES, MOUNTED POINTS, DIAMOND COMPOUND, FELT BOBS, BRUSHES, AND MORE

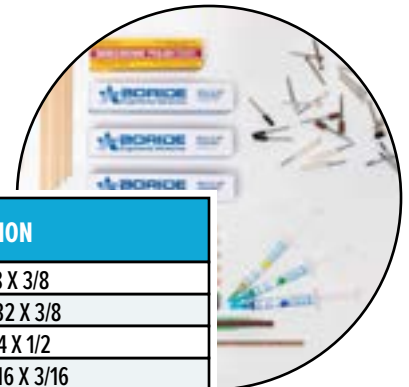
PERFECT FOR BEGINNER POLISHERS AND EXPERT POLISHERS ALIKE

QUANTITY	DESCRIPTION
1	AM-2 ALL GRIT KIT IN 1/8 X 1/2 SIZE
1	AS-9 ALL GRIT KIT IN 1/8 X 1/2 SIZE
1	CS-M ALL GRIT KIT IN 1/8 X 1/2 SIZE
1	STONE HAND HOLDER
1	GREEN BELT STICK, 1/4 X 6, 320 GRIT
1	PREMIUM STONING OIL (2OZ)
1	SIMICHROME POLISH, 50GM TUBE
1	MOLD MAKERS DIAMOND #15 BLUE, MEDIUM 2GM
1	MOLD MAKERS DIAMOND #9 GREEN, MEDIUM 2GM
1	MOLD MAKERS DIAMOND #3 YELLOW, MEDIUM 2GM
3	FELT BOB, 1/4 X 3/8 CYLINDER, HARD
3	FELT BOB, 3/8 X 1/2 CONE, HARD
3	FELT STICK, 1/4 SQ X 1 1/2, HARD
3	END BRUSH, .003 STEEL, 1/4 X 3/16
3	CUP BRUSH, HARD, 1/4 X 9/16
3	END BRUSH, HARD, 1/4 X 3/16



PART NUMBER	BOR090800
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QUANTITY	DESCRIPTION
3	MOUNTED POINT, B97 BLUE, 1/8 X 3/8
3	MOUNTED POINT, B44 BLUE, 7/32 X 3/8
3	MOUNTED POINT, W163 RED, 1/4 X 1/2
3	MOUNTED POINT, B123 RED, 3/16 X 3/16
5	WOOD STICK, 1/4 X 1/4 X 6 BEVEL, SOFT
5	WOOD STICK, 1/8 X 1/4 X 6 BEVEL, SOFT
1	ROCKWOOD STICK, 3/16 X 6 ROUND, BLUNT END





ROUGHING POLISHING STONES

EXCELLENT FOR ROUGHING LARGE MOLDS AND DIES. FROM SOFT TO HARD, AND ENABLES RAPID, AGGRESSIVE STOCK REMOVAL.

AFTER THE DUPLICATING PROCESS HAS BEEN COMPLETED ON LARGE DIES AND MOLDS, ROUGHOUT STONES ARE IDEAL FOR REMOVING CUTTER MARKS.

Available in 100-600 grit and a wide variety of sizes from soft to hard.



MOST POPULAR

QTY: 12 PIECES/BOX EXCEPT FOR 1" DEPTH (3PC)



HAND



PROFILER



WET



DRY

CUTRITE ROUGHOUTS		80	100	120	150	180
1/4"	1/4 X 1 X 8"	R0141880	R01418100	R01418120	R01418150	-
1/2"	1/2 X 1 X 8"	R0121880	R01218100	R01218120	R01218150	R01218180
1"	1 X 2 X 8"	R012880	R0128100	-	R0128150	-

CUTRITE Roughouts are slightly more softer than the Boride soft stones.

BORIDE ROUGHOUTS - SOFT		80	100	120	180
1/4"	1/4 X 1 X 8"	BOR029516	BOR029530	BOR029545	BOR029575
1/2"	1/2 X 1 X 8"	BOR029519	BOR029533	BOR029548	BOR029578
1"	1 X 1 X 8"	BOR029521	BOR029536	BOR029551	BOR029581
	1 X 2 X 8"	BOR029524	BOR029539	BOR029554	BOR029584

BORIDE ROUGHOUTS - MEDIUM		80	100	150	220
1/4"	1/4 X 1 X 8"	BOR029200	BOR029230	BOR029260	BOR029290
1/2"	1/2 X 1 X 8"	BOR029210	BOR029240	BOR029270	BOR029300
1"	1 X 2 X 8"	BOR029220	BOR029250	BOR029280	BOR029310

BORIDE ROUGHOUTS - HARD		150	220
1/4"	1/4 X 1 X 8"	BOR029460	BOR029490
1/2"	1/2 X 1 X 8"	BOR029470	BOR029500
1"	1 X 2 X 8"	BOR029480	BOR029510

BORIDE ROUGHOUTS - GS		100	120
1/4"	1/4 X 1/2 X 8"	BOR029316	BOR029340
	1/4 X 1 X 8"	BOR029318	BOR029342
1/2"	1/2 X 1 X 8"	BOR029320	BOR029350

BORIDE RUBY		60	80	100	150	220
1/8"	1/8 X 1/4 X 6"	BOR074213	BOR074313	BOR074513	BOR074613	BOR074813
	1/8 X 1/2 X 6"	BOR074217	BOR074317	BOR074517	BOR074617	BOR074817
1/4"	1/4 X 1/4 X 6"	BOR074229	BOR074329	BOR074529	BOR074629	BOR074829
	1/4 X 1/2 X 6"	BOR074233	BOR074333	BOR074533	BOR074633	BOR074833
	1/4 X 1 X 6"	BOR074243	BOR074343	BOR074543	BOR074643	BOR074843
1/2"	1/2 X 1/2 X 6"	BOR074241	BOR074341	BOR074541	BOR074641	BOR074841
	1/2 X 1 X 6"	BOR074245	BOR074345	BOR074545	BOR074645	BOR074845



SHARPENING STONES


USED TO IMPART A FINE, UNIFORM FINISH ON PRECISION MACHINE PARTS, AND IN TOOL AND DIE MAKING.


STONES ARE OIL PRE-FILLED TO SAVE TIME AND ELIMINATE THE PRESOAKING PRIOR TO FIRST USE. USED FOR DEBURRING, SHARPENING AND HONING.

AVAILABLE IN ALUMINUM OXIDE AND SILICON CARBIDE IN A VARIETY OF SHAPES AND SIZES.


DESCRIPTION	SHAPE	PIECES/BOX	PART NUMBER
SFA-C42, COARSE GRIT (120), 1/4 X 1/4 X 4"	SQUARE	6	BOR076251
SFA-C43, COARSE GRIT (120), 3/8 X 3/8 X 4"	SQUARE	6	BOR076253
SFA-C44, COARSE GRIT (120), 1/2 X 1/2 X 4"	SQUARE	6	BOR076255
SFA-C65, COARSE GRIT (120), 5/8 X 5/8 X 6"	SQUARE	6	BOR076265
SFA-M42, MEDIUM GRIT (220), 1/4 X 1/4 X 4"	SQUARE	6	BOR076280
SFA-M43, MEDIUM GRIT (220), 3/8 X 3/8 X 4"	SQUARE	6	BOR076285
SFA-M44, MEDIUM GRIT (220), 1/2 X 1/2 X 4"	SQUARE	6	BOR076290
SFA-M65, MEDIUM GRIT (220), 5/8 X 5/8 X 6"	SQUARE	6	BOR076300
SFA-F42, FINE GRIT (320), 1/4 X 1/4 X 4"	SQUARE	6	BOR076315
SFA-F43, FINE GRIT (320), 3/8 X 3/8 X 4"	SQUARE	6	BOR076320
SFA-F44, FINE GRIT (320), 1/2 X 1/2 X 4"	SQUARE	6	BOR076325
SFA-F65, FINE GRIT (320), 5/8 X 5/8 X 6"	SQUARE	6	BOR076335
SFA-C67, COARSE GRIT (120), 1 X 1 X 6"	SQUARE	2	BOR076275
SFA-M67, MEDIUM GRIT (220), 1 X 1 X 6"	SQUARE	2	BOR076310
SFA-F67, FINE GRIT (320), 1 X 1 X 6"	SQUARE	2	BOR076345
TFA-C42, COARSE GRIT (120), 1/4 X 4"	TRIANGLE	6	BOR076455
TFA-C43, COARSE GRIT (120), 3/8 X 4"	TRIANGLE	6	BOR076460
TFA-C44, COARSE GRIT (120), 1/2 X 4"	TRIANGLE	6	BOR076465
TFA-M42, MEDIUM GRIT (220), 1/4 X 4"	TRIANGLE	6	BOR076490
TFA-M43, MEDIUM GRIT (220), 3/8 X 4"	TRIANGLE	6	BOR076495
TFA-M44, MEDIUM GRIT (220), 1/2 X 4"	TRIANGLE	6	BOR076500
TFA-F42, FINE GRIT (320), 1/4 X 4"	TRIANGLE	6	BOR076525
TFA-F43, FINE GRIT (320), 3/8 X 4"	TRIANGLE	6	BOR076530
TFA-F44, FINE GRIT (320), 1/2 X 4"	TRIANGLE	6	BOR076535
RFA-C42, COARSE GRIT (120), 1/4 X 1/4 X 4"	ROUND	6	BOR076665
RFA-C43, COARSE GRIT (120), 3/8 X 3/8 X 4"	ROUND	6	BOR076667
RFA-C44, COARSE GRIT (120), 1/2 X 1/2 X 4"	ROUND	6	BOR076669
RFA-M42, MEDIUM GRIT (220), 1/4 X 1/4 X 4"	ROUND	6	BOR076679
RFA-M43, MEDIUM GRIT (220), 3/8 X 3/8 X 4"	ROUND	6	BOR076681
RFA-M44, MEDIUM GRIT (220), 1/2 X 1/2 X 4"	ROUND	6	BOR076683
RFA-F42, FINE GRIT (320), 1/4 X 1/4 X 4"	ROUND	6	BOR076693
RFA-F43, FINE GRIT (320), 3/8 X 3/8 X 4"	ROUND	6	BOR076695
RFA-F44, FINE GRIT (320), 1/2 X 1/2 X 4"	ROUND	6	BOR076697
HFA-C43, COARSE GRIT (120), 3/8 X 4"	HALF-ROUND	6	BOR076747
HFA-M43, MEDIUM GRIT (220), 3/8 X 4"	HALF-ROUND	6	BOR076754
HFA-F43, FINE GRIT (320), 3/8 X 4"	HALF-ROUND	6	BOR076761
SBA-C42, COARSE GRIT (120), 1/4 X 1/4 X 4"	SINGLE GRIT	6	BOR076000
SBA-C44, COARSE GRIT (120), 1/2 X 1/2 X 4"	SINGLE GRIT	6	BOR076005
SBA-M42, MEDIUM GRIT (220), 1/4 X 1/4 X 4"	SINGLE GRIT	6	BOR076025
SBA-M44, MEDIUM GRIT (220), 1/2 X 1/2 X 4"	SINGLE GRIT	6	BOR076030
SBA-F42, FINE GRIT (320), 1/4 X 1/4 X 4"	SINGLE GRIT	6	BOR076050
SBA-F44, FINE GRIT (320), 1/2 X 1/2 X 4"	SINGLE GRIT	6	BOR076055
SBA-C67, COARSE GRIT (120), 1 X 2 X 6"	SINGLE GRIT	1	BOR076015
SBA-M67, MEDIUM GRIT (220), 1 X 2 X 6"	SINGLE GRIT	1	BOR076040
SBA-F67, FINE GRIT (320), 1 X 2 X 6"	SINGLE GRIT	1	BOR076065


USED FOR DEBURRING, SHARPENING AND HONING.


	COMBINATION BENCH SHARPENING STONE		
	<p>THE COMBINATION BENCH STONE FROM BORIDE ENGINEERED ABRASIVES IS USED FOR DEBURRING, SHARPENING AND HONING.</p>		
DESCRIPTION	GRIT	PIECES/BOX	PART NUMBER
CBA-FC45, ALUMINUM OXIDE, 5/8 X 1-5/8 X 4-1/2"	120/320	1	BOR076210
CBA-FC67, ALUMINUM OXIDE, 1 X 2 X 6"	120/320	1	BOR076220
CBA-FC87, ALUMINUM OXIDE, 1 X 2 X 8"	120/320	1	BOR076225
CBS-FC45, SILICON CARBIDE, 5/8 X 1-5/8 X 4-1/2"	120/320	1	BOR076235
CBS-FC67, SILICON CARBIDE, 1 X 2 X 6"	120/320	1	BOR076245
CBS-FC87, SILICON CARBIDE, 1 X 2 X 8"	120/320	1	BOR076250

	KNIFE BLADE SHARPENING STONE		
	<p>SHARPENING STONES ARE PRE-FILLED WITH OIL TO SAVE TIME AND ELIMINATE THE PRESOAKING THE STONE PRIOR TO ITS FIRST USE.</p>		
DESCRIPTION	GRIT	PIECES/BOX	PART NUMBER
KBA-C41, COARSE GRIT (120), 1/8 X 1 X 4"	120	6	BOR076770
KBA-M41, MEDIUM GRIT (220), 1/8 X 1 X 4"	220	6	BOR076775
KBA-F41, FINE GRIT (320), 1/8 X 1 X 4"	320	6	BOR076780

SHARPENING FILE ASSORTMENT KIT			
DESCRIPTION	GRIT	PIECES/BOX	PART NUMBER
SBA-F42 BENCH	320	1	BOR076999
CBA-F45 COMBO	120/320	1	
SFA-M42 SQUARE	220	1	
TFA-C42 TRIANGLE	120	1	
RFA-F42 ROUND	320	1	
KBA-F41 KNIFE	320	1	

	BORI-LUBE 10 - POLISHING LUBRICANT		
	<p>A WATER BASED, SURFACTANT TYPE LUBRICANT. IT IS ODOR FREE AND EASY TO CLEAN OFF MOLDS AND DIES. IT IS AVAILABLE IN PINT AND GALLON SIZE CONTAINERS. FORMULATED FOR MOLD POLISHING TO CLEAN, LUBRICATE AND PREVENT STONE LOADING.</p>		
	PART NUMBER	BORIGAL	BORI4
SIZE	GALLON	4 OZ.	

	BORIDE PREMIUM STONING OIL - POLISHING LUBRICANT		
	<p>A PETROLEUM BASED LUBRICANT. HELPS PREVENT THE STONE FROM LOADING UP ALLOWING THE STONE TO CUT MORE CONSISTENTLY AND FREELY. IT IS NEARLY ODOR FREE, NOT HARSH ON THE HANDS AND DOES NOT PROMOTE OXIDIZATION</p>		
	PART NUMBER	BOR336030	BOR336040
SIZE	GALLON	PINT (16 OZ.)	

	CONGRESS STONING OIL - SPECIAL STONING OIL		
	<p>LUBRICATES STONING AREA TO MAKE POLISHING EASIER AND HELP PREVENT LOADING. COLORLESS AND ORDORLESS. CAN BE USED FOR THINNING DIAMOND COMPOUND.</p>		
	PART NUMBER	CONSTOIL-SP	CONOIL4
SIZE	GALLON	4 OZ.	



POLISHING STONE KITS

A CONVENIENT SAMPLE ASSORTMENT OF SIZES AND GRITS.

YOUR POLISHING JOBS CHANGE AND THE POLISHING STONES YOU NEED CHANGES TOO! OUR KITS WILL PROVIDE YOU THE STONES YOU NEED FOR TESTING. EACH KIT HAS FIVE TO SIX DIFFERENT GRITS OF THE SAME TYPE AND SIZE OF STONE.

OUR MOLD POLISHING STONE KITS OFFER THE SAME SIZE STONE IN EITHER STANDARD GRITS OR FINE GRITS FOR EACH POLISHING STONE TYPE.

REFERENCE: SEE SPI MOLD FINISHING GUIDE PG 66



POLISHING STONE	GRITS	SIZE	PART NUMBER
AM-8	150, 220, 320, 400, 600	1/8 X 1/2 X 6"	BOR028952
AM-8	320, 400, 600, 800, 1000, 1200	1/8 X 1/2 X 6"	BOR028986
AS-9	150, 220, 320, 400, 600	1/8 X 1/2 X 6"	BOR028954
AS-9	320, 400, 600, 800, 1000, 1200	1/8 X 1/2 X 6"	BOR028974
ORANGE EDM	150, 220, 320, 400, 600	1/8 X 1/2 X 6"	BOR028963
GOLDEN STAR	150, 220, 320, 400, 600	1/8 X 1/2 X 6"	BOR028993
AM-2	150, 220, 320, 400, 600	1/8 X 1/2 X 6"	BOR028956
AM-2	320, 400, 600, 800, 1000, 1200	1/8 X 1/2 X 6"	BOR028990
DIE STONE	150, 220, 320, 400, 600	1/8 X 1/2 X 6"	BOR028960
CS-M	150, 220, 320, 400, 600	1/8 X 1/2 X 6"	BOR028971
CS-M	320, 400, 600, 800, 1000, 1200	1/8 X 1/2 X 6"	BOR028988
CS-HD	150, 220, 320, 400, 600	1/8 X 1/2 X 6"	BOR028969
CS-HD	320, 400, 600, 800, 1000, 1200	1/8 X 1/2 X 6"	BOR028989
RASP	150, 220, 320, 400, 600	1/8 X 1/2 X 6"	BOR028972
RASP	320, 400, 600, 800, 1000, 1200	1/8 X 1/2 X 6"	BOR028991
PC	150, 220, 320, 400, 600	1/8 X 1/2 X 6"	BOR028968
PC	320, 400, 600, 800, 1000, 1200	1/8 X 1/2 X 6"	BOR028975
T2	150, 220, 320, 400, 600	1/8 X 1/2 X 6"	BOR028958
T2	320, 400, 600, 800, 1000, 1200	1/8 X 1/2 X 6"	BOR028987
T4	150, 220, 320, 400, 600	1/8 X 1/2 X 6"	BOR028965
T4	320, 400, 600, 800, 1000, 1200	1/8 X 1/2 X 6"	BOR028973
TH	150, 220, 320, 400, 600	1/8 X 1/2 X 6"	BOR028968
TH	320, 400, 600, 800, 1000, 1200	1/8 X 1/2 X 6"	BOR028977
AO	150, 220, 320, 400, 600	1/8 X 1/2 X 6"	BOR028970
AO	320, 400, 600, 800, 1000, 1200	1/8 X 1/2 X 6"	BOR028976
AS-H	320, 400, 600, 800, 1000, 1200	1/8 X 1/2 X 6"	BOR028978

DELUXE SUPER STONE KIT

PART NUMBER:

SSKITD

KEEP YOUR TOOL ROOM SUPPLIED WITH THE MOST COMMON STONES NEEDED FOR POLISHING!

DESCRIPTION	PART DETAIL	QTY
FLAT SUPER STONES 1 X 2 X 100MM	GREEN (SS12GR), ORANGE (SS12OR), BLUE (SS12BL)	3
FLAT SUPER STONES 1 X 4 X 100MM	GREEN (SS14GR), ORANGE (SS14OR), BLUE (SS14BL)	3
FLAT SUPER STONES 1 X 6 X 100MM	GREEN (SS16GR), ORANGE (SS16OR), BROWN (SS16BR), BLUE (SS16BL),	4
FLAT SUPER STONES 1 X 10 X 100MM	GREEN (SS110GR), ORANGE (SS110OR), BLUE (SS110BL)	3
ROUND SUPER STONES 3 X 100MM	GREEN (SSR3GR), ORANGE (SSR3OR)	2
CNB 80 STONES - 80 GRIT	1.2 X 4 X 75MM (BOR046903), 1.2 X 6 X 75MM (BOR046917), 1.2 X 10 X 75MM (BOR046921)	3
CNB 120 STONES - 120 GRIT	0.8 X 4 X 75MM (BOR046959), 0.8 X 6 X 75MM (BOR046962), 0.8 X 10 X 75MM (BOR046978)	3
NOTCHED DIAMOND FILE	5/32" WIDE 120 GRIT (DFN532120), 1/4" WIDE 120 GRIT (DFN14120), 3/8" WIDE 150 GRIT (DFN38150)	6
ORANGE EDM STONES	1/8 X 1/4 X 6 220 GRIT (BOR020480), 1/8 X 1/2 X 6 220 GRIT (BOR020490)	2



CERAMIC SUPER STONES - DETAIL POLISHING STONES

FLEXIBLE, VERY FAST CUTTING CERAMIC SUPER STONE IS USED FOR FINE DETAIL POLISHING. EXCELLENT FOR EDM REMOVAL.

- MADE OF LONG CERAMIC FIBERS THAT WILL NOT BREAK
- EXTREMELY STRONG AND THIN FOR TIGHT RIBS AND SLOTS
- USED IN ULTRASONIC POLISHERS, RECIPROCATING PROFILERS, OR BY HAND
- PERFECT FOR POLISHING RIBS, HARD-TO REACH SLOTS AND SIDEWALLS

AVAILABLE IN 80-3000 GRIT AND A WIDE VARIETY OF SIZES INCLUDING ROUND



Hand



Profiler



Ultrasonic



Wet



Dry

MOST POPULAR

STANDARD FLAT CERAMIC SUPER STONES - DETAIL POLISHING STONES

DIMENSIONS (MM)	VIOLET	GREEN	GOLD	LBR	ORANGE	BROWN	BLUE	WHITE	RED
	80G	120G	180G	300G	400G	600G	800G	1000G	1200G
0.5 X 2 X 100	SS52V	SS52GR	SS52G	SS52LBR	SS52OR	SS52BR	SS52BL	SS52W	SS52R
0.5 X 4 X 100	SS54V	SS54GR	SS54G	SS54LBR	SS54OR	SS54BR	SS54BL	SS54W	SS54R
0.5 X 6 X 100	SS56V	SS56GR	SS56G	SS56LBR	SS56OR	SS56BR	SS56BL	SS56W	SS56R
0.8 X 4 X 100	SS84V	SS84GR	SS84G	SS84LBR	SS84OR	SS84BR	SS84BL	SS84W	SS84R
0.8 X 6 X 100	SS86V	SS86GR	SS86G	SS86LBR	SS86OR	SS86BR	SS86BL	SS86W	SS86R
0.8 X 10 X 100	SS810V	SS810GR	SS810G	SS810LBR	-	SS810BR	SS810BL	SS810W	-
1 X 4 X 50	SS1450V	SS1450GR	SS1450G	-	-	SS1450BR	SS1450BL	-	-
1 X 2 X 100	SS12V	SS12GR	SS12G	SS12LBR	SS12OR	SS12BR	SS12BL	SS12W	SS12R
1 X 4 X 100	SS14V	SS14GR	SS14G	SS14LBR	SS14OR	SS14BR	SS14BL	SS14W	SS14R
1 X 6 X 100	SS16V	SS16GR	SS16G	SS16LBR	SS16OR	SS16BR	SS16BL	SS16W	SS16R
1 X 10 X 100	SS110V	SS110GR	SS110G	SS110LBR	SS110OR	SS110BR	SS110BL	SS110W	SS110R
1.5 X 4 X 100	SS154V	SS154GR	SS154G	SS154LBR	SS154OR	SS154BR	SS154BL	SS154W	SS154R
1.5 X 6 X 100	SS156V	SS156GR	SS156G	SS156LBR	SS156OR	SS156BR	SS156BL	-	-

STANDARD FLAT CERAMIC SUPER STONES - FINE GRIT

Dimensions (mm)	Yellow	Cream	Pink
	1500G	2000G	3000G
1 x 1 x 100	SS11Y	SS11CR	SS11P
1 x 2 x 100	SS12Y	SS12CR	SS12P
1 x 4 x 100	SS14Y	-	-
1 x 6 x 100	SS16Y	-	-
1 x 10 x 100	SS110Y	-	-


CAN BE USED WITH MINIATURE CERAMIC STONE HOLDER.



STONE HOLDERS FOR HAND POLISHING

STONE HOLDERS FOR HAND POLISHING WITH DETAIL POLISHING STONES. A MUST FOR GOOD CONTROL DURING THE POLISHING PROCESS.

DESCRIPTION	PART NUMBER
HANDHELD STONE HOLDER FOR SUPER STONE 1 X 2MM WIDE	SSHH2
HANDHELD STONE HOLDER FOR SUPER STONE 1 X 4MM WIDE	SSHH4
HANDHELD STONE HOLDER FOR SUPER STONE 1 X 6MM WIDE	SSHH6
HANDHELD STONE HOLDER FOR SUPER STONE 1 X 10MM WIDE	SSHH10
THREE PIECE HANDHELD SET FOR SUPER STONES (4MM, 6MM, & 10MM)	SSHH3SET



ROUND CERAMIC SUPER STONES - DETAIL POLISHING STONES


FLEXIBLE, VERY FAST CUTTING CERAMIC SUPER STONE IS USED FOR FINE DETAIL POLISHING. EXCELLENT FOR EDM REMOVAL.

- MADE OF LONG CERAMIC FIBERS THAT WILL NOT BREAK
- EXTREMELY STRONG AND THIN FOR TIGHT RIBS AND SLOTS
- USED IN ULTRASONIC POLISHERS, RECIPROCATING PROFILERS, OR BY HAND
- PERFECT FOR POLISHING RIBS, HARD-TO REACH SLOTS AND SIDEWALLS

ROUND CERAMIC SUPER STONES - DETAIL POLISHING STONES

DIMENSIONS (MM)	VIOLET	GREEN	GOLD	LBR	ORANGE	BROWN	BLUE	WHITE	RED
	80G	120G	180G	300G	400G	600G	800G	1000G	1200G
	2.35 X 50	-	-	-	-	SSR235500R	SSR23550BR	SSR23550BL	-
2.35 X 100	SSR235100V	SSR235100GR	SSR235100G	SSR235100LBR	-	SSR235100BR	SSR235100BL	-	SSR235100R
3 X 50	SSR350V	SSR350GR	SSR350G	SSR350LBR	SSR350OR	SSR350BR	SSR350BL	SSR350W	SSR350R
3 X 100	SSR3100V	SSR3100GR	SSR3100G	SSR3100LBR	SSR3100OR	SSR3100BR	SSR3100BL	SSR3100W	SSR3100R
3.16 X 50	SSR31650V	SSR31650GR	SSR31650G	SSR31650LBR	SSR31650OR	SSR31650BR	SSR31650BL	SSR31650W	SSR31650R

STONE HOLDERS FOR CERAMIC STONE - HANDHELD





IMAGE	DESCRIPTION	PART NUMBER
	HANDHELD STONE HOLDER FOR ROUND SUPER STONE SIZES: 3MM OR 1/8"	SSHHR3

MINIATURE FLAT CERAMIC SUPER STONES - DETAIL POLISHING STONES

DIMENSIONS (MM)	VIOLET	GREEN	GOLD	LBR	ORANGE	BROWN	BLUE	WHITE	RED
	80G	120G	180G	300G	400G	600G	800G	1000G	1200G
	0.5 X 0.5 X 50	SSM5V	SSM5GR	SSM5G	SSM5LBR	SSM5OR	SSM5BR	SSM5BL	SSM5W
0.7 X 0.7 X 50	SSM7V	SSM7GR	SSM7G	SSM7LBR	SSM7OR	SSM7BR	SSM7BL	SSM7W	SSM7R
0.9 X 0.9 X 50	SSM9V	SSM9GR	SSM9G	SSM9LBR	SSM9OR	SSM9BR	SSM9BL	SSM9W	SSM9R
1.4 X 1.4 X 50	SSM14V	SSM14GR	SSM14G	SSM14LBR	SSM14OR	SSM14BR	SSM14BL	SSM14W	SSM14R


MINIATURE CERAMIC STONE HOLDER - HANDHELD

MAINTAIN EXCELLENT CONTROL DURING POLISHING WITH MINIATURE CERAMIC STONE HOLDERS FOR HAND POLISHING.

IMAGE	DESCRIPTION	PART NUMBER
	HANDHELD STONE HOLDER FOR MINIATURE CERAMIC SUPER STONES .5 X .5 MM	SSHM5
	HANDHELD STONE HOLDER FOR MINIATURE CERAMIC SUPER STONES .7 X .7 MM	SSHM7
	HANDHELD STONE HOLDER FOR MINIATURE CERAMIC SUPER STONES .9 X .9 MM	SSHM9
	HANDHELD STONE HOLDER FOR MINIATURE CERAMIC SUPER STONES 1.4 X 1.4 MM	SSHM14

COLOR / GRIT CHART

Violet 80G	Green 120G	Gold 180G	Light Brown 300G	Orange 400G	Brown 600G	Blue 800G	White 1000G	Red 1200G	Yellow 1500G	Cream 2000G	Pink 3000G
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CERAMIC SUPER STONE MOUNTED POINTS

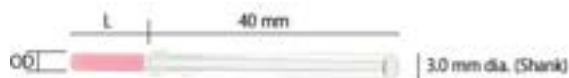
BY MOUNTING IT TO THE SHAFT, IT CAN BE USED WITH ROTATING TOOLS SUCH AS ELECTRIC GRINDERS, AIR GRINDERS AND THE ULTRASONIC HAND PIECE. IT IS DIFFICULT TO BREAK.

- SUITABLE FOR GENERAL STEEL, MOLD STEEL, STAINLESS STEEL, VARIOUS ALLOY STEELS AND ALUMINUM.
- SAME EXCEPTIONAL ROUND SHAPE CERAMIC SUPER STONES ARE NOW AVAILABLE MOUNTED
- STABLE CUTTING PERFORMANCE TIME AFTER TIME

THE ENTIRE SURFACE HAS GRINDING POWER MAKING IT THE PERFECT TOOL FOR DEBURRING, POLISHING, AND REMOVING EDM SCALE.

SIZE (MM)	VIOLET 80G	GREEN 120G	GOLD 180G	LBR 300G	ORANGE 400G	BLACK 600G	BLUE 800G	WHITE 1000G	RED 1200G
1.0MM	-	BOR675084	BOR675085	BOR675086	BOR675087	BOR675088	BOR675089	BOR675090	BOR675091
1.5MM	BOR675075	BOR675076	BOR675077	BOR675078	BOR675079	BOR675080	BOR675081	BOR675082	BOR675083
2.0MM	BOR675092	BOR675093	BOR675094	BOR675095	BOR675096	BOR675097	BOR675098	BOR675099	BOR675100

PLEASE NOTE THAT THE AVAILABLE SHANK DIAMETER IS 3.0MM.





SPECIALIZED RUBBER MOUNTED POINTS - RUBBER GRINDING STONE

PROVIDES AN EVENLY POLISHED SURFACE WITHOUT LEAVING ANY DEEP SCRATCHES, UNLIKE CONVENTIONAL PAPERS AND HARD GRINDING STONES. GREAT FOR AUTOMATION APPLICATIONS.

- EXTREMELY DURABLE, AND CLOG RESISTANT MAKING IT LONG-LASTING FOR CONTINUOUS USE
- EXCELLENT POLISHING AND DEBURRING TOOL FOR A WIDE RANGE OF MATERIALS, SIZES AND SHAPES
- CAN BE USED FOR BOTH WET AND DRY APPLICATIONS

SOFT ENOUGH TO PROVIDE AN EVENLY POLISHED SURFACE WITHOUT LEAVING ANY DEEP SCRATCHES AND IS SHARP ENOUGH FOR GRINDING.



SIZE (MM)	GRIT					
	80	120	180	220	320	
3MM	2 X 5 X 3	BOR219106	BOR219110	BOR219111	BOR219112	BOR219113
	5 X 15 X 3	BOR219114	BOR219115	BOR219116	BOR219108	BOR219117
	6 X 17 X 3	BOR296053	BOR296052	BOR219118	BOR219100	BOR296054
	8 X 20 X 3	BOR219119	BOR219102	BOR219107	BOR219120	BOR219121
	10 X 20 X 3	BOR219101	BOR219122	BOR219123	BOR219103	BOR296055
15 X 17 X 3	BOR219124	BOR219125	BOR219126	BOR219104	BOR219127	
6MM	20 X 25 X 6	BOR219128	BOR219129	BOR219130	BOR219105	BOR219131

DAIWA RABIN RUBBER MOUNTED POINT KIT:



GRIT	SIZE (DIAMETER X LENGTH)	QUANTITY
80	5MM X 15MM	2
120	5MM X 15MM	2
220	5MM X 15MM	2
320	5MM X 15MM	2
1000	4MM X 13MM	1
3000	4MM X 13MM	1
PART NUMBER:		BOR219099

GENERAL APPLICATIONS:

- POLISHING BRAZED PARTS
- DE-RUSTING
- PROCESSING BURNS AT GRINDING AND MAINTENANCE
- EDM SCALE REMOVAL (ELECTRICAL DISCHARGE MACHINING)
- REMOVING PLATING AND COATING
- REMOVING ADHESIONS TO THE MOLD SURFACE DURING MAINTENANCE



CRISTONE® CRYSTAL FIBER STONES - DETAIL POLISHING STONES

THE CRYSTALLINE STRUCTURE OF THE CRYSTAL FIBERS OFFERS HIGH POLISHING EFFICIENCY AND INCREDIBLE BENDING STRENGTH.

- MADE FROM USING THE HIGHEST QUALITY OF CRYSTAL FIBERS
- HIGH POLISHING EFFICIENCY AND INCREDIBLE BENDING STRENGTH
- OUTSTANDING POLISHING EFFICIENCY AND OPTIMAL SURFACE FINISHES
- THESE ARE THE PERFECT STONES FOR DETAIL POLISHING

Available in 150-1000 grit and a wide variety of sizes including round



HAND



PROFILER



WET



DRY

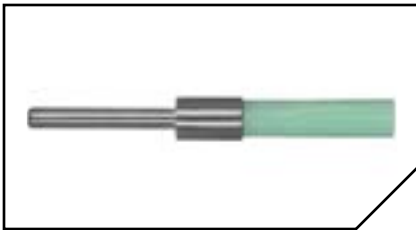


ULTRASONIC

MOST POPULAR

SHAPE	DIMENSIONS (MM)	Green	Pink	Violet	Orange	Blue	White
		150G	200G	400G	600G	800G	1000G
Flat	1 x 2 x 100	CS12GR	CS12P	CS12V	CS12OR	CS12BL	CS12W
Flat	1 x 4 x 100	CS14GR	CS14P	CS14V	CS14OR	CS14BL	CS14W
Flat	1 x 6 x 100	CS16GR	CS16P	CS16V	CS16OR	CS16BL	CS16W
Flat	1 x 10 x 100	CS110GR	CS110P	CS110V	CS110OR	CS110BL	CS110W
Flat	1 x 13 x 100	CS113GR	CS113P	CS113V	CS113OR	CS113BL	CS113W
Round	2.35 x 50	CSR23550GR	CSR23550P	CSR23550V	CSR23550OR	CSR23550BL	CSR23550W
Round	2.35 x 100	CSR235100GR	CSR235100P	CSR235100V	CSR235100OR	CSR235100BL	CSR235100W
Round	3 x 50	CSR350GR	CSR350P	CSR350V	CSR350OR	CSR350BL	CSR350W
Round	3 x 100	CSR3100GR	CSR3100P	CSR3100V	CSR3100OR	CSR3100BL	CSR3100W

3 PIECE KIT	1 x 4 x 100	Contains one piece of each stone in size 1 x 4 x 100mm, Grits: 150, 400, and 800	CSKIT3
6 PIECE KIT	1 x 4 x 100	Contains one piece of each stone in size 1 x 4 x 100mm, Grits: 150, 200, 400, 600, 800, and 1000	CSKIT6

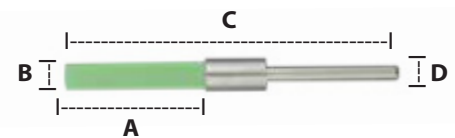


CRISTONE® END BRISTLE BRUSHES - DETAIL POLISHING STONES

PERFECT TOOL TO USE FOR CROSS HOLE DEBURRING, SURFACE FINISHING AND POLISHING FOR AIRCRAFT PARTS, ENGINE BLOCKS AND MEDICAL DEVICES.

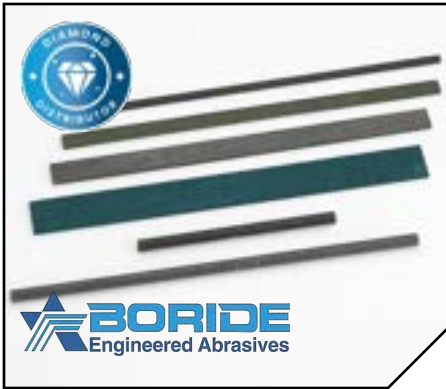
EXCELLENT FOR AGGRESSIVE FINISHING AND TOOL MARK REMOVAL

BRUSH LENGTH (A)	BRISTLE DIAMETER (B)	OVERALL LENGTH (C)	SHANK DIAMETER (D)
20mm	5mm	49mm	3mm



GREEN (150G)	PINK (200G)	VIOLET (400G)	ORANGE (600G)	BLUE (800G)	WHITE (1000G)	RED (1200G)
CSB5GR	CSB5P	CSB5V	CSB5OR	CSB5BL	CSB5W	CSB5R

**Do Not Use with a pneumatic tool. Electric tools or CNC machines only.*



DIAMOND CERAMIC SUPER STONES - DETAIL POLISHING STONES

A COMBINATION OF CERAMIC FIBERS AND EVENLY DISTRIBUTED DIAMOND PARTICLES TO ENSURE CONTINUOUS CUTTING ACTION.

- EXCELLENT FOR POLISHING CARBIDE AND HARDENED SURFACES
- USED EITHER BY HAND, IN ULTRASONIC POLISHERS OR PROFILERS
- PERFECT FOR POLISHING RIBS, HARD-TO REACH SLOTS AND SIDEWALLS
- NO LOADING LIKE PLATED DIAMOND FILES

CUT AND POLISH IN ALL DIRECTIONS. EXCELLENT FOR USE IN RIBS, HARD-TO-REACH SLOTS AND SIDEWALLS.



HAND



PROFILER



WET



DRY



ULTRASONIC



MOST POPULAR

SHAPE	DIMENSIONS (MM)	BLACK	GREY	GREEN
		180G	400G	600G
Flat	1 x 4 x 100	DSS14180	DSS14400	DSS14600
Flat	1 x 6 x 100	DSS16180	DSS16400	DSS16600
Flat	1 x 10 x 100	DSS110180	DSS110400	DSS110600
Round	3 x 50	DSSR350200	DSSR350400	DSSR350600
Round	3 x 100	DSSR3100180	DSSR3100400	DSSR3100600



COARSE NASTY BASTARDS (CNB) - DETAIL POLISHING STONES

MADE FROM AN ADVANCED COMPOSITE, THEY ARE FABRICATED TO PROVIDE INCREDIBLE STRENGTH AND CUTTING ACTION.

- EXTREMELY AGGRESSIVE FIBER STONE
- CUTS THE HARDEST TOOL STEEL
- VERY COARSE AND FAST CUTTING
- CONSISTENT BREAKDOWN

THE CNB IS AN IDEAL TOOL FOR BLENDING WELDS AND MOLD REPAIRS



HAND



PROFILER



WET



DRY



MOST POPULAR

SHAPE	DIMENSIONS (MM)	CNB-80
		80G
Flat	1.2 x 4 x 75	BOR046903
Flat	1.2 x 6 x 75	BOR046917
Flat	1.2 x 10 x 75	BOR046921
Flat	1.2 x 10 x 150	BOR046944





SHAPE	DIMENSIONS (MM)	CNB-120
		120G
Flat	0.8 x 4 x 75	BOR046959
Flat	0.8 x 6 x 75	BOR046962
Flat	0.8 x 10 x 75	BOR046973
Flat	0.8 x 10 x 150	BOR046978

STONE HOLDERS

AN ASSORTMENT OF STONE HOLDERS FOR BOTH HANDHELD AND USE IN AIR PROFILERS.

MINIATURE CERAMIC STONE HOLDER - HANDHELD

MAINTAIN EXCELLENT CONTROL DURING POLISHING WITH MINIATURE CERAMIC STONE HOLDERS FOR HAND POLISHING.

IMAGE	DESCRIPTION	PART NUMBER
	HANDHELD STONE HOLDER FOR MINIATURE CERAMIC SUPER STONES .5 X .5 MM	SSHM5
	HANDHELD STONE HOLDER FOR MINIATURE CERAMIC SUPER STONES .7 X .7 MM	SSHM7
	HANDHELD STONE HOLDER FOR MINIATURE CERAMIC SUPER STONES .9 X .9 MM	SSHM9
	HANDHELD STONE HOLDER FOR MINIATURE CERAMIC SUPER STONES 1.4 X 1.4 MM	SSHM14






STONE HOLDERS FOR CERAMIC STONE - HANDHELD

STONE HOLDERS FOR HAND POLISHING WITH DETAIL POLISHING STONES. A MUST FOR GOOD CONTROL DURING THE POLISHING PROCESS.

IMAGE	DESCRIPTION	PART NUMBER
	HANDHELD STONE HOLDER FOR S SUPER STONE 1 X 4MM WIDE	SSHH4
	HANDHELD STONE HOLDER FOR SUPER STONE 1 X 6MM WIDE	SSHH6
	HANDHELD STONE HOLDER FOR SUPER STONE 1 X 10MM WIDE	SSHH10
3 PIECE HANDHELD SET FOR SUPER STONES: SSHH4, SSHH6, SSHH10		SSHH3SET

STONE HOLDERS FOR POLISHING STONES - HANDHELD

HIGH QUALITY PLASTIC STONE HOLDERS ARE FOR USE WHEN HAND POLISHING WITH BORIDE POLISHING STONES.

IMAGE	DESCRIPTION	PART NUMBER
	HANDHELD STONE HOLDER FOR POLISHING STONES SIZES 1/8 X 1/4", 1/4 X 1/4", 1/8 X 1/2"	SHH400
	HANDHELD STONE HOLDER FOR POLISHING STONE SIZES 1/4 X 1/4", 1/4 X 1/2"	SHH401
	HANDHELD STONE HOLDER FOR POLISHING STONE SIZES 3/8" AND 1/4" ROUND STONES	SHH402
	HANDHELD STONE HOLDER FOR POLISHING STONE SIZES 1/16 X 1/4", 1/16 X 1/2", 1/4 X 1/4"	SHH403
HANDHELD SET FOR POLISHING STONES 4 PIECES: SHH400, SHH401, SHH402, AND SHH403		SHH4SET
	DOUBLE ENDED ROUND HANDHELD STONE HOLDER FOR STONE SIZES: 1/4 X 1/4", 1/16 X 1/4", 1/8 X 1/4"	SHH104

STONE HOLDERS FOR ROUND CERAMIC STONE - HANDHELD


IMAGE	DESCRIPTION	PART NUMBER
	HANDHELD STONE HOLDER FOR ROUND SUPER STONE SIZES: 3MM OR 1/8"	SSHHR3

STONE HOLDERS FOR USE WITH PROFILERS

AN ASSORTMENT OF STONE HOLDERS FOR BOTH CONVENTIONAL FINISHING STONES AND DETAIL STONES FOR USE IN AIR PROFILERS.

IMAGE	DESCRIPTION	PART NUMBER
	SUPER STONE HOLDER WITH 1/8" SHANK, FOR SUPER STONES 1 X 4, 1 X 6, OR 1 X 10MM	SSHW18
	SUPER STONE HOLDER WITH 3/16" SHANK, FOR SUPER STONES 1 X 4, 1 X 6, OR 1 X 10MM	SSW316
	SUPER STONE HOLDER WITH 3MM SHANK, FOR SUPER STONES 1 X 4, 1 X 6, OR 1 X 10MM	SSW3M
	LONG VERSION 2-7/8", 1/8" SHANK, FOR POLISHING STONES 1/4" THICK	SHBRS
	LONG VERSION 2-7/8", 3/16" SHANK, FOR POLISHING STONES 1/4" THICK	SHLW1418
	SHORT VERSION 2", 1/8" SHANK, FOR POLISHING STONES 1/4" THICK	SHSW1418
	SHORT VERSION 2", 3/16" SHANK, FOR POLISHING STONES 1/4" THICK	SHSW14316
	SHORT VERSION 2", 3/16" SHANK, FOR POLISHING STONES 1/4" THICK	SHSW18316
	SHORT VERSION 2", 1/8" SHANK, FOR POLISHING STONES 1/8" THICK	SHSW1818
	BRASS REPLACEMENT RING AND SET SCREW FOR SUPER STONE HOLDERS	SHBRS
	LARGE BRASS REPLACEMENT RING	SHBRL
	1/8" SHANK MOUNTED STONE HOLDER FOR PROFILER, HOLDS 1/4 X 1/8", 1/4 X 1/16", 1/2 X 1/16"	SH210
	1/8" SHANK MOUNTED STONE HOLDER FOR PROFILER, HOLDS 1/2 X 1/8", 1/4 X 1/4"	SH220
	3/16" SHANK MOUNTED STONE HOLDER FOR PROFILER, HOLDS 1/4 X 1/8", 1/4 X 1/16", 1/2 X 1/16"	SH310
	3/16" SHANK MOUNTED STONE HOLDER FOR PROFILER, HOLDS 1/4 X 1/8", 1/4 X 1/16", 1/2 X 1/16"	SH320
	PLASTIC VICE CLAMP 1/8" SHANK STONE HOLDER FOR PROFILER, HOLDS 1/16" - 1/4"	SH5001
	PLASTIC VICE CLAMP 3/16" SHANK STONE HOLDER FOR PROFILER, HOLDS 1/16" - 1/4"	SH5003
	STAINLESS STEEL CLAMP STYLE, ADJUSTABLE FOR PROFILER WITH 3MM SHANK, HOLDS STONES UP TO 1/4" THICK	SH105
	"SUPER COLLET" FOR TURBO LAP. HOLDS SUPER STONES, DIAMOND FILES, AND POLISHING STONES.	TL50257000
	SMALL STEEL HOLDER FOR SHORT STONES UP TO 3/16" THICK (4.5MM) 3MM SHANK. (COMES AS AN ACCESSORY)	SH106
	GOOD FOR POLISHING STONES AND FILES - 3.2MM FLAT SLOT. (COMES AS AN ACCESSORY)	SH107
	SUPER STONE HOLDER WITH 1MM SLOT. (COMES AS AN ACCESSORY)	SH108
	SUPER STONE HOLDER WITH 1MM SLOT. (COMES AS AN ACCESSORY)	SH109
	1/8" SHANK STONE HOLDER FOR NSK LUSTER.	NSKLS10875

STONE HOLDERS FOR HEAVY DUTY STOCK REMOVAL AND POLISHING - MADE FROM ALUMINUM

	FOR STONES 1/4 X 1/4" - WITH 1/4" SHANK	SHA141414
	FOR STONES 1/4 X 1/2" - WITH 1/4" SHANK	SHA141214
	FOR STONES 1/2" X 1" - WITH 1/4" SHANK	SHA12114



OPTIVISOR - HEADBAND MAGNIFIERS

A PRECISION BINOCULAR HEADBAND MAGNIFIER WHICH PERMITS UNRESTRICTED USER EFFICIENCY WHILE REDUCING EYE STRAIN. USED BY ANYONE WHOSE PROFESSION REQUIRES CLOSE ACCURATE WORK.

- COMFORTABLE WHEN WORN FOR LONG PERIODS OF TIME
- ADJUSTABLE PIVOTS ALLOW THE VISOR TO BE TILTED OUT OF THE WAY

CONSTANT CLOSE-UP WORK AND POOR LIGHTING CAN STRAIN YOUR EYES AND LEAD TO FATIGUE

FOCAL LENGTH	MAGNIFICATION	PART NUMBER
20"	1.5	OPDA2
14"	1.75	OPDA3
10"	2	OPDA4
8"	2.5	OPDA5
6"	2.75	OPDA7
4"	3.5	OPDA10

SELECTION GUIDE: DETERMINE THE INCHES YOU ARE FROM YOUR WORK (FOCAL LENGTH) TO SELECT THE APPROPRIATE OPTIVISOR.

MOST POPULAR



QUASAR LED LIGHTING SYSTEM FOR OPTIVISORS

THE BEST POSSIBLE LIGHTING SOLUTION AVAILABLE FOR YOUR MAGNIFYING VISOR. SIGNIFICANTLY INCREASES VISIBILITY. 6 LEDS PLACED AROUND THE FRAME FOR EQUAL LIGHTING.

- EASILY SNAPS OVER YOUR OPTIVISOR LENS PLATE

OPTIVISOR NOT INCLUDED.

PART NUMBER	NL6010
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REQUIRES 2 AA BATTERIES, INCLUDED.



BANDIT PRO - BRIGHT AND LONG LASTING RECHARGEABLE HEADLAMP FOR OPTIVISOR

- ULTRA-COMPACT, LOW-PROFILE RECHARGEABLE CLIP ON OPTIVISOR LIGHT

PRODUCES BRIGHT, EVEN, DIFFUSED LIGHT WITH LESS SHADOW THAN SPOT BEAMS; IDEAL FOR UP-CLOSE TASKS

PRODUCT SPECIFICATIONS

HIGH LUMENS:	180
RUN TIME ON HIGH:	4.50 HOURS
RUN TIME ON LOW:	21.00 HOURS
BATTERY TYPE:	LITHIUM POLYMER CELL



CLIP ON OPTIVISOR LIGHT KIT

PART NUMBER	OPTILIGHT
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OPTIVISOR SOLD SEPARATELY



STYLUS PRO PENLIGHT

PUSH BUTTON TAIL SWITCH, MOMENTARY OR CONSTANT ON OPERATION. ABOUT THE SIZE OF A MARKER, IT CONVENIENTLY FITS IN YOUR POCKET AND A REMOVABLE POCKET CLIP ENSURES IT STAYS IN PLACE.

HIGH LUMENS	RUN TIME	BEAM DISTANCE	LENGTH	WEIGHT	BATTERY TYPE	PART NUMBER
100	8.00 HOURS	62 METERS	5.30 INCHES	1.64 OUNCES	AAA ALKALINE	ST66118



STREAMLIGHT JR LUXEON REACH W/ MAGNET

SEE INTO EVERY CREVICE WITH A FLEXIBLE CABLE THAT ALLOWS FOR 14" OF REACH. MAGNETIC CLIP ALLOWS HANDS-FREE TASK LIGHTING SHOCK AND WATER RESISTANT 7.50 HOURS MAXIMUM RUN-TIME.

HIGH LUMENS	RUN TIME	BEAM DISTANCE	LENGTH	WEIGHT	BATTERY TYPE	PART NUMBER
115	7.50 HOURS	77 METERS	20.00 INCHES	6.10 OUNCES	AA ALKALINE	ST71600



MOLD MAKERS OIL-BASED DIAMOND COMPOUND

MOLD MAKERS DIAMOND IS SPECIALLY ENGINEERED FOR PRECISION FINISHING FOR ALL TYPES OF MOLD AND DIE APPLICATIONS.

- CONSISTENT PARTICLE DISTRIBUTION AND A WIDE THERMAL PROCESSING RANGE
- CONSISTS OF A PRECISE BLEND OF SYNTHETIC DIAMOND PARTICLES

5 AND 18 GRAM SYRINGES ARE DIAL CONTROLLED OFFERING PRECISE DISTRIBUTION

APPLICATION	GRADE	MICRON	COLOR	5 GRAM SYRINGE			18 GRAM SYRINGE		
				MEDIUM	HEAVY	EXTRA HEAVY	MEDIUM	HEAVY	EXTRA HEAVY
STOCK REMOVAL	100	100-150	BLACK	BOR337001	BOR337002	BOR337003	BOR337021	BOR337022	BOR337023
STOCK REMOVAL	170	80-100	DARK GRAY	BOR337041	BOR337042	BOR337043	BOR337061	BOR337062	BOR337063
STOCK REMOVAL	230	54-80	PURPLE	BOR337081	BOR337082	BOR337083	BOR337101	BOR337102	BOR337103
STOCK REMOVAL	45	36-54	BROWN	BOR337161	BOR337162	BOR337163	BOR337181	BOR337182	BOR337183
STOCK REMOVAL	30	22-36	RED	BOR331169	BOR331170	BOR331171	BOR331179	BOR331180	BOR331181
PRE-POLISH LAPPING	20	15-25	LIGHT BLUE	BOR337281	BOR337282	BOR337283	BOR337301	BOR337302	BOR337303
PRE-POLISH LAPPING	15	12-22	BLUE	BOR331139	BOR331140	BOR331141	BOR331149	BOR331150	BOR331151
PRE-POLISH LAPPING	9	8-12	GREEN	BOR331109	BOR331110	BOR331111	BOR331119	BOR331120	BOR331121
FINAL & PRE-POLISH	6	4-8	ORANGE	BOR331079	BOR331080	BOR331081	BOR331089	BOR331090	BOR331091
FINAL & PRE-POLISH	4	2-6	PINK	BOR337521	BOR337522	BOR337523	BOR337541	BOR337542	BOR337543
FINAL POLISH	3	2-4	YELLOW	BOR331049	BOR331050	BOR331051	BOR331059	BOR331060	BOR331063
FINAL POLISH	2	1-3	LAVENDER	BOR337601	BOR337602	BOR337603	BOR337621	BOR337622	BOR337623
FINAL POLISH	1	0-2	WHITE	BOR331019	BOR331020	BOR331021	BOR331029	BOR331030	BOR331031
FINAL POLISH	1/2	0-1	LIGHT GRAY	BOR337681	BOR331005	BOR337683	BOR337701	BOR331007	BOR337703
FINAL POLISH	1/4	0-1/2	GRAY	BOR337721	BOR337722	BOR337723	BOR337741	BOR337742	BOR337743
FINAL POLISH	1/10	0-1/4	IVORY	BOR337761	BOR337762	BOR337763	BOR337781	BOR337782	BOR337783



DIAMAX THINNER & LUBRICANT

DIAMAX THINNER & LUBRICANT IS USED TO THIN THE SLURRY, EXTEND THE DIAMOND COMPOUND AND REDUCE GUMMING.

- PENETRATE QUICKLY, LUBRICATE EVERY PARTICLE FOR MAXIMUM CUTTING ACTION
- HELP FLUSH AWAY ABRADED MATERIAL WHILE REDUCING LAPPING TIME

SIZE	2 OZ	4 OZ	16 OZ
PART NUMBER	BOR336006	BOR336005 DIAMAX	BOR336010

FOR USE WITH OIL-BASED DIAMOND COMPOUNDS

DIAPRO DIAMOND COMPOUND (MONO-CRYSTALLINE DIAMOND COMPOUND - OIL BASED)

OUR HIGH STANDARD TO THE METAL FINISHING INDUSTRY. INTENDED FOR USE ON HARDER MATERIALS SUCH AS TUNGSTEN CARBIDE TOOLING.

- THE CONSISTENCY OF THIS COMPOUND IS NOT AFFECTED BY FRICTIONAL HEAT DURING USE. WILL HOLD TO VERTICAL SURFACES.

APPLICATION	COLOR	MICRON GRADE	MICRON RANGE	MESH SIZE	CONCENTRATION	5 GRAM SYRINGE	18 GRAM SYRINGE
FINEST FINISHES OPTICAL QUALITY	GREY	1/4	0-1/2	100,000	STRONG	DC14M	DC14M-18
	GREY	1/2	0-1	60,000	STRONG	DC12M	DC12M-18
	IVORY	1	0-2	14,000	STRONG	DC1M	DC1M-18
FINAL FINISHING MOST APPLICATIONS	YELLOW	3	2-4	8,000	STRONG	DC3M	DC3M-18
	ORANGE	6	4-8	3,000	STRONG	DC6M	DC6M-18
	GREEN	9	8-12	1,800	STRONG	DC9M	DC9M-18
PREPARATORY FINISHING RAPID STOCK REMOVAL	BLUE	15	12-22	1,200	STRONG	DC15M	DC15M-18
	RED	30	22-36	600	STRONG	DC30M	DC30M-18
	BROWN	45	36-54	325	STRONG	DC45M	DC45M-18

DIAPREM DIAMOND COMPOUND (PREMIUM MONO-CRYSTALLINE COMPOUND - OIL BASED)

A PREMIUM OIL BASED SOLUTION FOR MOLD AND DIE POLISHING. INTENDED FOR HARDER MATERIALS SUCH AS CARBIDE OR TOOL STEELS.

- THE CONSISTENCY OF THIS COMPOUND IS NOT AFFECTED BY FRICTIONAL HEAT DURING USE. WILL HOLD TO VERTICAL SURFACES.


APPLICATION	COLOR	MICRON GRADE	MICRON RANGE	MESH SIZE	CONCENTRATION	5 GRAM SYRINGE	18 GRAM SYRINGE
FINEST FINISHES OPTICAL QUALITY	GREY	1/4	0-1/2	100,000	STANDARD	DC14H-5MA	DC14H-18MA
	GREY	1/2	0-1	60,000	STANDARD	DC12H-5MA	DC12H-18MA
	IVORY	1	0-2	14,000	STANDARD	DC1H-5MA	DC1H-18MA
FINAL FINISHING MOST APPLICATIONS	YELLOW	3	2-4	8,000	STANDARD	DC3H-5MA	DC3H-18MA
	ORANGE	6	4-8	3,000	STANDARD	DC6H-5MA	DC6H-18MA
	GREEN	9	8-12	1,800	STANDARD	DC9H-5MA	DC9H-18MA
PREPARATORY FINISHING RAPID STOCK REMOVAL	BLUE	15	12-22	1,200	STANDARD	DC15H-5MA	DC15H-18MA
	RED	30	22-36	600	STANDARD	DC30H-5MA	DC30H-18MA
	BROWN	45	36-54	325	STANDARD	DC45H-5MA	DC45H-18MA

DIAMOLD® DIAMOND COMPOUND (ENTRY LEVEL DIAMOND COMPOUND - OIL BASED)

DESIGNED FOR THE BUDGET MINDED FINISHING SPECIALIST WHO REQUIRES EXCELLENT QUALITY ON STANDARD APPLICATIONS.

- DIAMOLD PROVIDES PERFORMANCE AT AN ECONOMICAL PRICE.


APPLICATION	COLOR	MICRON SIZE	10 GRAM SYRINGE	20 GRAM SYRINGE
FINEST POLISHING	IVORY	1	DC110E	DC120E
	YELLOW	3	DC310E	DC320E
LAPPING AND PRE-POLISHING	ORANGE	6	DC610E	DC620E
	GREEN	9	DC910E	DC920E
	BLUE	15	DC1510E	DC1520E
RAPID STOCK REMOVAL	RED	30	DC3010E	DC3020E
	BROWN	45	DC4510E	DC4520E
	NATURAL	60	DC6010E	DC6020E



HYPRELUBE

High-penetration lubricant. Both oil and water soluble, it has unsurpassed abrasive wetting capabilities and continuous, controlled lubricity. Use with standard diamond compounds.

SIZE	20Z.	160Z.	320Z.
PART NUMBER	DCL02	DCL016	DCL032





CONGRESS STONING OIL - SPECIAL


Used for thinning diamond compound. Also used to lubricate stoning area to make polishing easier and help prevent loading. Colorless and odorless.


SIZE	ONE GALLON
PART NUMBER	CONSTOIL-SP


POLISHING SUPPLIES


	BUFFING WHEEL COMPOUNDS		
	ONLY THE FINEST PREMIUM-GRADE INGREDIENTS ARE USED IN FORMULATING BUFFING AND POLISHING COMPOUNDS, RESULTING IN A SUPERIOR FINISH FOR YOU EVERY TIME. SELECT THE BEST!		
COLOR	USE	DETAIL	PART NUMBER
BLACK EMERY 16 OZ.	STEEL AND FERROUS METALS	PROVIDES FAST CUTTING ACTION	ROUGEE
WHITE ROUGE 20 OZ.	CHROME/STAINLESS	GIVES A BRIGHT SHINY LUSTER	ROUGEWH
RED ROUGE 20 OZ.	PRECIOUS AND SOFT METALS	FOR BUFFING	ROUGER
GREEN ROUGE 2X2X10" BAR	ALL CLASSES OF METALS	BUFFING PRECISION TOOLS, AND DIES	ROUGEGR


	SHANK MOUNTED COTTON BUFFS – TYPE “SM-40” – 40 PLY			
	FOR HARD TO REACH AND RECESSED AREAS WHERE A LARGER CONVENTIONAL TYPE BUFF IS NOT SUITABLE.			
<ul style="list-style-type: none"> MADE OF 100% FINE COTTON SHEETING USE WITH ALL DRILL CHUCK, FLEXIBLE SHAFTS AND WITH ALL COMPOUND HAND BARS 				
BUFF DIAMETER	SHANK	PLY	FACE WIDTH	PART NUMBER
2"	1/4"	40	1/2"	MB2
3"	1/4"	40	1/2"	MB3
4"	1/4"	40	1/2"	MB4

	UNMOUNTED COTTON BUFFS – TYPE “SM-40” – 40 PLY			
	FOR HARD TO REACH AND RECESSED AREAS WHERE A LARGER CONVENTIONAL TYPE BUFF IS NOT SUITABLE.			
BUFF DIAMETER	SHANK	PLY	FACE WIDTH	PART NUMBER
2"	UNMOUNTED	40	1/2"	MB2UNM
3"	UNMOUNTED	40	1/2"	MB3UNM
4"	UNMOUNTED	40	1/2"	MB4UNM

	KNIFE EDGE MUSLIN BUFFS WITH LEATHER CENTER			
	RAZOR EDGED BUFFS ARE EXCELLENT FOR REACHING INTO AREAS WHERE CONVENTIONAL BUFFS CANNOT.			
<ul style="list-style-type: none"> SUPERIOR QUALITY, SOFT TEXTURED, LOOSE BUFFS, WITH LEATHER CENTERS PERFECT FOR USE WITH ROUGE TO PRODUCE A HIGH FINISH 				
BUFF DIAMETER	SHANK	PLY	HOLE	PART NUMBER
3"	UNMOUNTED	40	1/4"	MB3RZ
4"	UNMOUNTED	40	1/4"	MB4RZ






	CHROME POLISH PASTE	
	BRINGS OUT THE HIGH LUSTER OF METALS, REMOVING THE “HAZE“ OFTEN LEFT AFTER THE FINAL FINISH.	
<ul style="list-style-type: none"> REMOVES TARNISH, DIRT AND OILS, AND GENERALLY RENEWS POLISHED METAL SURFACES WORKS WELL ON MOST METALS INCLUDING SILVER, BRASS, BRONZE, CHROMIUM, AND ALUMINUM 		


	CONGRESS CHROME POLISH	
	SIZE	PART NUMBER
	50 GRAM TUBE	SCTUBE50
	125 GRAM TUBE	SCTUBE125
	250 GRAM TINE	SCTUBE250
1250 GRAM CAN	SCCAN	



FELT BOBS	
USED WITH VARIOUS POLISHING COMPOUNDS TO PRODUCE A HIGH SURFACE FINISH ON DIES AND MOLDS.	
<ul style="list-style-type: none"> • OUR FELT BOBS ARE MADE FROM THE FINEST WOOL AND MATERIALS FOR LONG LIFE • DESIGNED FOR THE POLISHING PROFESSIONAL WITH ABSOLUTELY NO IMPURITIES 	

CAN BE USED WITH DIAMOND COMPOUND OR POLISHING COMPOUNDS TO PRODUCE A HIGH SURFACE FINISH ON ALL DIES AND MOLDS.

FELT BOBS	DIAMETER	LENGTH	SHANK	HARDNESS		
				SOFT	MEDIUM	HARD
	1/4"	1/4"	1/8"	FB1414S	FB1414M	FB1414H
	1/4"	3/8"	1/8"	FB1438S	FB1438M	FB1438H
	3/8"	3/8"	1/8"	FB3838S	FB3838M	FB3838H
	3/8"	1/2"	1/8"	FB3812S	FB3812M	FB3812H
	1/2"	1/2"	1/8"	FB1212S	FB1212M	FB1212H
	1/2"	3/4"	1/8"	FB1234S	FB1234M	FB1234H
	1/2"	1"	1/8"	FB121S	-	-
	3/4"	3/4"	1/8"	FB3434S	FB3434M	FB341H
	3/4"	3/4"	1/8"	-	FB3434RH (ROCK HARD)	-
	3/4"	1"	1/8"	FB341S	FB341M	FB341H
	1"	1"	1/8"	FB11S	FB11M	FB11H
	1"	1-1/2"	1/8"	-	FB1112M	FB1112H
	1"	2"	1/8"	-	FB12M	FB12H
	1-1/2"	1"	1/8"	FB1121S	FB1121M	FB1121H
	2"	1"	1/8"	-	FB21M	FB21H
2"	2"	1/8"	FB22S	FB22M	FB22H	
	1/2"	3/4"	1/8"	-	-	FB1234H
	3/4"	1"	1/8"	FB341S	FB341M	FB341H
	1"	1-1/4"	1/8"	FB1114S	FB1114M	FB1114H
	7MM	17MM	3MM	-	-	FBC717H
	3/8"	1/2"	1/8"	FBC3812S	FBC3812M	FBC3812H
	1/2"	3/4"	-	-	-	FBC1234H
	3/4"	1-1/2"	1/4"	FBC34112S	FBC34112M	FBC34112H
	1/2"	3/4"	1/8"	-	-	FBD1234H
	3/4"	1-1/2"	1/4"	FBD34112S	FBD34112M	FBD34112H
	1/2"	1/2"	1/8"	-	-	FBE12H
	1"	1"	1/4"	FBE1S	FBE1M	FBE1H




FELT QUICK CHANGE DISCS	
COOL RUNNING, REDUCES RISK OF LOADING. DESIGNED FOR THE FINAL POLISHING PROCESS.	
BEFORE POLISHING REMOVE ANY MACHINING LINES OR ROUGH SURFACES WITH SANDING DISCS, SAND PAPER OR POLISHING STONES, STARTING WITH ROUGH GRIT WORKING TO FINE. FOR A MATTE FINISH, A FINE GRIT CAN BE FOLLOWED WITH A BUFF AND BLEND DISC BEFORE BUFFING WITH A POLISH. THE HIGHER GLOSS THE FINISH, THE FINER THE GRIT ON FINAL SANDING BEFORE POLISHING. FOR A MIRROR FINISH, DIAMOND POLISH STEPS WILL BE NECESSARY. MORE STEPS FOR STEEL AND LESS FOR ALUMINUM AND BRASS.	



DIAMETER	MAX RPM	PART NUMBER	MINIMUM PACKAGE
1"	20,000	SA840100	10
2"	20,000	SA840300	10
3"	18,000	SA840400	10


IN TIGHT AREAS USE THE 1" DISCS AND THE 2" AND 3" DISCS ON LARGE OPEN AREAS

FELT STICKS AND FELT LAPS (LAPS WITH 1/8" SHANK)						
STYLE	DESCRIPTION	HARDNESS				QUANTITY
		SOFT	MEDIUM	HARD	VERY HARD	
STICK	1/4 X 1/4 X 4"	FS144S	FS144M	FS144H	-	12
STICK	3/8 X 3/8 X 6"	FS386S	FS386M	-	-	12
STICK	1/2 X 1/2 X 4"	-	FS124M	FS124H	-	12
LAP	1/4 SQUARE X 1-1/4 L X 1/8"	-	FL14M	FL14H	FL14VH	12
LAP	3/8 SQUARE X 1-1/4 L X 1/8"	-	FL38M	FL38H	FL38VH	12
LAP	1/2 SQUARE X 1-1/4 L X 1/8"	-	FL12M	FL12H	FL12VH	12

	FELT STRIPS AND FELT SHEETS		
	DIMENSIONS	DENSITY	PART NUMBER
	1 X 2 X 1/8"	MEDIUM	FSP1218M
	1 X 3 X 1/4"	MEDIUM	FSP1314M
	12 X 12 X 3/16"	MEDIUM	FST12316M
	12 X 12 X 3/8"	MEDIUM	FST1238M
	12 X 12 X 1/2"	SOFT	FST1212S
	12 X 12 X 1/4"	MEDIUM	FST1214M
	12 X 12 X 1/4"	HARD	FST1214H

SOLD IN QUANTITIES OF 3, 12, OR 144

KNIFE & SQUARE EDGE FELT WHEELS WITH PIN HOLES				
FOR POLISHING CORNERS AND OTHER SHARP EDGED DETAILS. (MADE FROM PREMIUM FELT)				
<ul style="list-style-type: none"> THE WHEELS HAVE A 3MM PIN HOLE FOR USE WITH MANDRELS OR ARBORS. KNIFE EDGE FELT WHEELS ARE AVAILABLE IN HARD DENSITY IN VARIOUS DIAMETERS & THICKNESS. 				
	SIZE	EDGE	DENSITY	PART NUMBER
	3/4 X 1/8"	KNIFE ►	HARD	FKEW3418
	1 X 1/8"	KNIFE ►	HARD	FKEW118
	2 X 1/4"	KNIFE ►	HARD	FKEW214
	SIZE	EDGE	DENSITY	PART NUMBER
	3/4 X 1/8"	SQUARE ■	HARD	FSW3418
	1 X 1/4"	SQUARE ■	HARD	FSW114
	1-1/4 X 1/4"	SQUARE ■	HARD	FSW11414
2 X 1/4"	SQUARE ■	HARD	FSW214	



FELT FLAP WHEELS	
USE WITH EXISTING POLISHING COMPOUNDS, PASTES OR ROUGES TO PRODUCE UP TO A MIRROR FINISH.	
<ul style="list-style-type: none"> REPLACE COTTON BOBS, BUFFS AND SOLID POINTS IN POLISHING APPLICATIONS AVAILABLE IN SEVERAL DENSITIES AND THICKNESSES FOR SOFTER, MORE FLEXIBLE PERFORMANCE THE DEGREE OF FINISH IS DETERMINED BY THE POLISHING COMPOUND 	

COMPARED TO EXISTING POLISHING PRODUCTS, FELT FLAP WHEELS RUN COOLER WITHOUT BURNING, ARE MORE FLEXIBLE, AND ELIMINATE THE NEED FOR A VARIETY OF WHEEL SHAPES WHILE PRODUCING A BETTER FINISH AND SAVING TIME.

DIMENSIONS	OPTIMUM RPM FOR BEST RESULTS	FLAP THICKNESS	FELT DENSITY
3/4"	9,500 - 14,200	D2	H18
1"	7,600 - 11,400	D3	H25
1-1/2"	4,750 - 7,100	D5	H42/H40
2"	3,800 - 5,700	-	H2
3"	2,400 - 3,560	THICKER	DENSER

D = FLAP THICKNESS
H = FELT DENSITY

MADE FROM 100% NATURAL WOOL.

DIAMETER	SHANK	STANDARD FLEXIBILITY		EXTRA FLEXIBLE		MAX RPM	MIN QTY
		SOFT	MEDIUM	SOFT	MEDIUM		
		D2/H25	D2/H40				
3/4" X 3/4"	1/8"	WE122601	WE122602			15,000	10
1" X 1/2"	1/8"	WE122611	WE122612			15,000	10
1" X 1"	1/8"	WE122621	WE122622	-		15,000	10
1" X 3/8"	1/4"	WE120604	-			15,000	10
1" X 1"	1/4"	WE120621	WE120622			15,000	10
1-1/2" X 1"	1/4"	WE120651	WE120652			15,000	10

DIMENSIONS	SHANK	D3 / H25	D3 / H40	D2 / H25	D2 / H40	MAX RPM	MIN QTY
2" X 1"	1/4"	WE120661	WE120662	WE120666	WE120667	13,700	10
2" X 2"	1/4"	WE120671	WE120672	WE120676	WE120677	13,700	10
3" X 1"	1/4"	WE120681	WE120682	WE120686	WE120687	8,600	10
3" X 2"	1/4"	WE120701	WE120702	WE120706	WE120707	8,600	10




FELT PRODUCTS KIT	
THIS ASSORTMENT ALLOWS YOU TO EXPERIMENT WITH SOME OF THE MORE POPULAR FELT PRODUCTS.	
<ul style="list-style-type: none"> INCLUDES A RANGE OF WHEELS SIZED FOR BOTH DETAILED APPLICATIONS AND LARGER SURFACES 	

PART NUMBER	WE999958
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DIMENSIONS	QTY	SPECS	PART NUMBER	DESCRIPTION OF KIT CONTENTS
1 X 3/8 X 1/4" SHANK	1	SOFT	WE120604	FELT FLAP WHEELS
1 X 1 X 1/4" SHANK	1	SOFT	WE120621	
2 X 1 X 1/4" SHANK	2	SOFT	WE120661	
2 X 2 X 1/4" SHANK	1	SOFT/BRUSH	WE120771	FELT FLAP WHEEL BRUSH
1 X 5" STICK	1	STAINLESS	WE999005	POLISHING STICK*

*STAINLESS COMPOUND FOR FAST CUTTING AND COLORING ON A WIDE VARIETY OF MATERIALS INCLUDING STEEL, STAINLESS, CHROMIUM AND NICKEL.



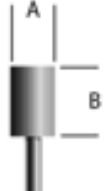
COTTON FIBER MOUNTED POINTS - MX WHEELS

MX WHEELS ARE ENGINEERED FOR BLENDING, DEBURRING, AND FINISHING MACHINED AND CAST PARTS.

- **ENGINEERED TO DEBUR AND FINISH IN ONE STEP**
- **CONTROLLED METAL REMOVAL WITHOUT CHANGING PART GEOMETRY**
- **SUPERIOR SURFACE FINISHING ON STAINLESS AND ALUMINUM**

SMOOTH, CHATTER FREE OPERATION AND LONGER LIFE.


MX WHEELS		COTTON FIBER BONDS								
COLOR CODE	TITANIUM	INCONEL/ 718/17-4 STAINLESS	STEEL CASTING	HIGH COBALT MATERIAL	STAINLESS STEEL CASTINGS	CAST IRON	ALUMINUM CASTINGS	MOLD & DIE STEELS	GRIT TYPE	DESCRIPTION
SOFT	■	■						■	RW	SOFT BLENDING & DEBURRING.
MEDIUM	■	■						■	RW	MEDIUM BLENDING & DEBURRING.
HIGH	■	■					■	■	RW	HARD BLENDING & DEBURRING.





MX Wheels are made of a rubber bonded cotton fiber impregnated with aluminum oxide grain. They are ideal for steel and stainless steel fabrication and excellent for mold, tool and die applications. Recommended for blending, deburring as well as slight stock removal and are excellent for runners. Nuisance dust is created during grinding operations which may cause eye, skin or respiratory irritation; recommended personal protection equipment includes safety glasses, hearing protection and dust mask. Also available in 24-320 grits.


MX WHEELS 80G						
DIAMETER (A)	LENGTH (B)	SHANK	MAXIMUM RPM	HARDNESS		
				SOFT	MEDIUM	HARD
1/8"	1/4"	1/8"	92,460	RX14480S	RX14480M	RX14480H
3/16"	1/2"	1/8"	66,580	RX15480S	RX15480M	RX15480H
1/4"	1/2"	1/8"	59,990	RX16380S	RX16380M	RX16380H
5/16"	1/2"	1/8"	54,860	RX17080S	RX17080M	RX17080H
3/8"	1/2"	1/8"	50,460	RX17680S	RX17680M	RX17680H
1/2"	1/2"	1/8"	42,750	RX18580S	RX18580M	RX18580H
5/8"	1"	1/4"	34,670	RX19680S	RX19680M	RX19680H
1"	1"	1/4"	30,370	RX22080S	RX22080M	RX22080H
1-1/2"	1/4"	1/4"	25,460	RX23580S	RX23580M	RX23580H
1-1/2"	1/2"	1/4"	25,460	RX23680S	RX23680M	RX23680H

MX WHEELS 120G						
DIAMETER (A)	LENGTH (B)	SHANK	MAXIMUM RPM	HARDNESS		
				SOFT	MEDIUM	HARD
1/8"	1/4"	1/8"	92,460	RX144120S	RX144120M	RX144120H
3/16"	1/2"	1/8"	66,580	RX154120S	RX154120M	RX154120H
1/4"	1/2"	1/8"	59,990	RX163120S	RX163120M	RX163120H
5/16"	1/2"	1/8"	54,860	RX170120S	RX170120M	RX170120H
3/8"	1/2"	1/8"	50,460	RX176120S	RX176120M	RX176120H
1/2"	1/2"	1/8"	42,750	RX185120S	RX185120M	RX185120H
5/8"	1"	1/4"	34,670	RX196120S	RX196120M	RX196120H
1"	1"	1/4"	30,370	RX220120S	RX220120M	RX220120H
1-1/2"	1/4"	1/4"	25,460	RX235120S	RX235120M	RX235120H
1-1/2"	1/2"	1/4"	25,460	RX236120S	RX236120M	RX236120H

		TAMPICO END BRUSH WITH SLEEVE			
		NATURAL TAMPICO BRISTLE, WHITE			
BRUSH DIAMETER	TRIM LENGTH	TYPE	SHANK	PART NUMBER	
1"	2"	NATURAL TAMPICO BRISTLE, WHITE	1/4"	MEBTAM	

		MINIATURE END BRUSHES			
		USED FOR BLENDING AND POLISHING WORK IN HARD-TO-REACH AREAS			
BRUSH DIAMETER	TRIM LENGTH	TYPE	SHANK	FERRULE	PART NUMBER
3/16"	1/4"	BRASS, X-THIN WIRE	1/8"	STEEL	MEB1005
3/16"	1/4"	BRISTLE, HARD	1/8"	STEEL	MEB1010
3/16"	1/4"	BRISTLE, SOFT	1/8"	STEEL	MEB1015
3/16"	1/4"	BRISTLE, HARD	1/8"	PLASTIC	MEB1020
3/16"	1/4"	BRISTLE, SOFT	1/8"	PLASTIC	MEB1025
3/16"	1/4"	STEEL, X-THIN WIRE	1/8"	STEEL	MEB1030
1/4"	1/4"	BRISTLE, HARD	1/8"	STEEL	MEB1035
1/4"	3/8"	BRISTLE, HARD	1/8"	PLASTIC	MEB1040
1/4"	1/2"	BRISTLE, SOFT	1/8"	PLASTIC	MEB1045
1/4"	3/8"	BRISTLE, HARD	3/32"	STEEL	MEB1055
1/4"	1/2"	BRISTLE, HARD	3/32"	STEEL	MEB1060
1/4"	7/16"	BRASS	1/8"	STEEL	MEB1070
5/16"	9/16"	BRISTLE, HARD	1/8"	STEEL	MEB1075
5/16"	9/16"	BRISTLE, HARD	1/8"	PLASTIC	MEB1080
5/16"	9/16"	BRISTLE, SOFT	1/8"	PLASTIC	MEB1085







		MINIATURE CUP BRUSHES			
		USED FOR BLENDING AND POLISHING WORK IN HARD-TO-REACH AREAS			
BRUSH DIAMETER	TRIM LENGTH	TYPE	SHANK	FERRULE	PART NUMBER
3/8"	1/4"	BRISTLE, HARD	1/8"	STEEL	MCB1205
1/2"	1/4"	BRISTLE, HARD	1/8"	STEEL	MCB1210
1/2"	5/16"	BRISTLE, SOFT	1/8"	STEEL	MCB1215
1/2"	3/16"	BRISTLE, VERY HARD	1/8"	STEEL	MCB1220
1/2"	5/16"	BRISTLE, SOFT	3/32"	STEEL	MCB1225
1/2"	5/16"	BRISTLE, HARD	3/32"	STEEL	MCB1230
9/16"	1/4"	BRISTLE, HARD	1/8"	STEEL	MCB1235
9/16"	1/4"	BRISTLE, SOFT	1/8"	STEEL	MCB1240
9/16"	1/4"	BRASS, X-THIN WIRE	1/8"	STEEL	MCB1245
9/16"	1/4"	STEEL	1/8"	STEEL	MCB1250
9/16"	1/4"	BRASS	1/8"	STEEL	MCB1255
1"	7/16"	BRISTLE, HARD	1/8"	STEEL	MCB1260
1"	7/16"	BRISTLE, MEDIUM	1/8"	STEEL	MCB1265
1"	7/16"	BRISTLE, SOFT	1/8"	STEEL	MCB1270


		MINIATURE WHEEL BRUSHES			
		USED FOR BLENDING AND POLISHING WORK IN HARD-TO-REACH AREAS			
BRUSH DIAMETER	TRIM LENGTH	TYPE	SHANK	FERRULE	PART NUMBER
3/4"	3/16"	BRISTLE, HARD	1/8"	STEEL	MWB1405
3/4"	3/16"	BRISTLE, SOFT	1/8"	STEEL	MWB1410
3/4"	3/16"	DOUBLE ROW BRISTLE	1/8"	STEEL	MWB1412
3/4"	3/16"	BRASS	1/8"	STEEL	MWB1415
1"	1/4"	BRISTLE, HARD	1/8"	STEEL	MWB1420
1"	5/16"	BRASS	1/8"	STEEL	MWB1425
1-1/4"	3/8"	DOUBLE ROW BRISTLE	1/8"	STEEL	MWB1427


	CHIP BRUSHES					
	MULTI-PURPOSE BRUSHES FEATURE NATURAL FIBER FOR APPLICATIONS REQUIRING DISPOSABLE BRUSHES.					


APPLICATIONS:


- PAINTING
- TOUCH-UP
- CHIP REMOVAL
- CLEANING

						
WIDTH	1/2"	1"	1-1/2"	2"	3"	4"
PART NUMBER	CB12	CB1	CB112	CB2	CB3	CB4
MINIMUM QUANTITY (BOX)	36	36	36	24	24	12

ACID BRUSHES		APPLYING CLEANING ACIDS, FLUX, AND OTHER COATINGS TO SMALL AREAS.	
	BRUSH WIDTH	TRIM LENGTH	PART NUMBER
	3/8"	7/8"	AB89602
	1/2"	7/8"	AB89603

WELDERS TOOTHBRUSH		FINE WIRE SCRATCH BRUSH FOR REMOVAL OF RUST, PAINT, SCALE, DIRT AND OTHER DEBRIS.	
	WIDTH	MINIMUM QUANTITY (BOX)	PART NUMBER
	3 X 7" Stainless	36	AB85055
	3 X 7" Brass	36	AB85056

SMALL WOODEN CLEANING SCRATCH BRUSH - STAINLESS STEEL WIRE			
	EFFECTIVELY TARGET CLEAN SMALL AREAS ON VARIOUS SURFACES.		
	WIDTH	MINIMUM QUANTITY (BOX)	PART NUMBER
	7-3/4" X 7/16"	36	OSB54022

SMALL PLASTIC CLEANING SCRATCH BRUSH - STAINLESS STEEL WIRE			
	EFFECTIVELY TARGET CLEAN SMALL AREAS ON VARIOUS SURFACES.		
	WIDTH	MINIMUM QUANTITY (BOX)	PART NUMBER
	7-1/4" X 3/8"	36	OSB83111A



CRIMPED WIRE END BRUSHES - CARBON STEEL WIRE

IDEAL FOR BRUSHING UNEVEN SURFACES. USED FOR LIGHT TO MEDIUM DUTY BRUSHING ACTION SUCH AS REMOVAL OF LIGHT SCALE, DIRT, RUST, CORROSION AND LIGHT BURRS.

Product Image	Brush Diameter	Wire Size	Part Number
	1/2"	0.006	AB82962
	1/2"	0.014	AB82965
	3/4"	0.006	AB82967
	3/4"	0.014	AB82970
	1"	0.006	AB82972
	1"	0.014	AB82975



CRIMPED WIRE END BRUSH (STAINLESS STEEL WIRE)

Brush Diameter	Wire Size	Part Number
3/4"	0.006	AB82986

APPLICATIONS:

- ROUGHENING
- DEBURRING
- REMOVING PAINT
- CLEANING
- DERUSTING
- REMOVING OXIDE LAYERS

General Purpose for working hard-to-reach places. For use on portable air and electric tools.



KNOT WIRE END BRUSHES - CARBON STEEL WIRE

IDEAL FOR TOUGH BRUSHING APPLICATIONS. USED FOR WELD CLEANING, WELD SPATTER REMOVAL, SCALE REMOVAL, CLEANING, DEBURRING, AND FLASH REMOVAL.

TIGHTLY TWISTED KNOTS FOR LOW FLEX, HIGH IMPACT BRUSHING ACTION

Product Image	Brush Diameter	Wire Size	Part Number
	3/4"	.014	AB83072
	1"	0.010	AB83078
	1"	0.014	AB83079

APPLICATIONS:

- DEBURRING
- REMOVING PAINT
- CLEANING
- DERUSTING
- DESCALING
- WORK ON FILLET WELDS
- WELD DRESSING
- REMOVING OXIDE LAYERS
- WELD DRESSING
- ROOT SEAM PROCESSING




For heavy-duty and severe applications, recessed areas and corners such as weld and mold cleaning.



CRIMPED WIRE WHEEL BRUSHES - CARBON STEEL WIRE

DESIGNED FOR INDIVIDUAL USE IN CONFINED AREAS. FOR LIGHT TO MEDIUM DUTY BRUSHING ACTION SUCH AS REMOVAL OF LIGHT SCALE, DIRT, RUST, CORROSION AND LIGHT BURRS.

THEY ARE BEST SUITED FOR BRUSHING UNEVEN SURFACES AND AREAS INACCESSIBLE TO WIDER BRUSHES

Product Image	Brush Diameter	Wire Size	Part Number
	1-1/2"	0.006	AB82890
	1-1/2"	0.012	AB82892
	2"	0.008	AB82893
	2"	0.012	AB82894
	3"	0.006	AB82897
	3"	0.008	AB82898
	3"	0.012	AB82899
	3"	0.014	AB82900

APPLICATIONS:

- ROUGHENING
- DEBURRING
- REMOVING PAINT
- CLEANING
- DERUSTING
- REMOVING OXIDE LAYERS





KNOT WIRE WHEEL BRUSHES - CARBON STEEL WIRE

THIS BRUSH FEATURES KNOTS THAT ARE LOOSELY-TWISTED AND COVER A LARGER SURFACE AREA. THEY ARE IDEAL FOR HEAVY-DUTY CLEANING AND SURFACE CONDITIONING ON UNEVEN SURFACES.

APPLICATIONS:

- DEBURRING
- REMOVING PAINT
- CLEANING
- DERUSTING
- DESCALING
- WELD DRESSING
- WORK ON FILLET WELDS
- REMOVING OXIDE LAYERS
- ROOT SEAM PROCESSING

Product Image	Diameter	Wire Size	Part Number
	6"	.016	AB81667

Product Image	Diameter	Wire Size	Fill Material	Part Number
	4"	0.014	STAINLESS STEEL FILL	OR8041311
	4"	0.020	STEEL FILL	OR80413266



MAXIMUM IMPACT FOR EXTREMELY SEVERE APPLICATIONS



KNOT WIRE CUP BRUSHES - Carbon Steel Wire

THE LOOSELY-TWISTED KNOTS COVER A LARGER SURFACE AREA AND ARE IDEAL FOR HEAVY-DUTY CLEANING AND SURFACE CONDITIONING ON UNEVEN SURFACES. OFFERS AGGRESSIVE ACTION.

DURABLE AND LONG LASTING: RUGGED, EFFICIENT TOOLS FOR FAST, HEAVY-DUTY CLEANING OF LARGE METAL SURFACES

Product Image	Brush Diameter	Wire Size	Part Number
	2-3/4"	0.014	OSB33359
	2-3/4"	0.020	OSB33459
	3-1/2"	0.02	AB82232

APPLICATIONS:

- DEBURRING
- REMOVING PAINT
- CLEANING
- DERUSTING
- DESCALING
- WORK ON FILLET WELDS
- WELD DRESSING
- REMOVING OXIDE LAYERS
- WELD DRESSING
- ROOT SEAM PROCESSING



FLEXIBLE TAPERED FILE BLANKS - STAINLESS STEEL

FLEXIBLE TAPERED STAINLESS STEEL FILE BLANKS CAN BE USED WITH A VARIETY OF POLISHING PRODUCTS IN THOSE HARD TO REACH AREAS OF YOUR MOLDS AND DIES.

Size	Part Number
1.5mm x 140mm	BOR90580
0.5mm x 140mm	BOR90590
0.4mm x 140mm	BOR90600

EXCELLENT CHOICE FOR REACHING INTO SLOTS AND RIBS USING ABRASIVE PAPER



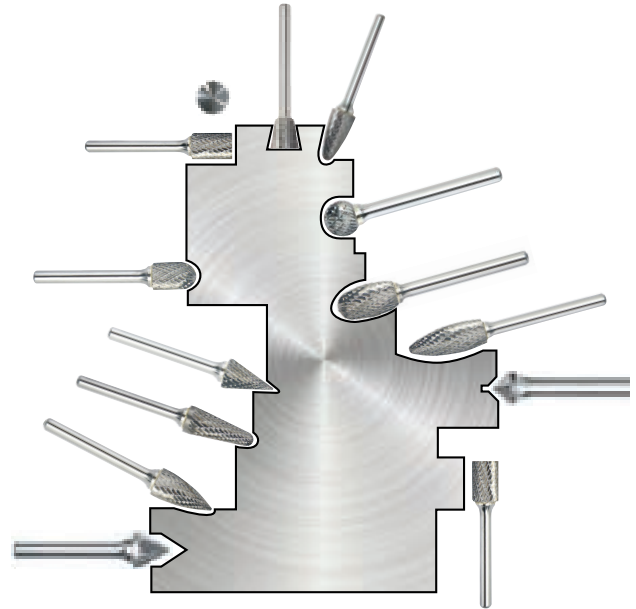
SOLID CARBIDE BURS

OUR PREMIUM CARBIDE BURS ARE SOLD IN SOLID CARBIDE AND CARBIDE HEAD BRAZED TO A STEEL SHANK. OUR PROPRIETARY BUR BRAZING PROCESS IS INDUSTRY LEADING.



GENERAL BUR CUT TYPE APPLICATIONS

MATERIALS	CUT TYPE		
	SINGLECUT	DOUBLECUT	ALUMACUT
ALUMINUM			✓
BRASS, BRONZE, AND COPPER	✓	✓	
CAST IRON	✓	✓	
PLASTICS			✓
STEEL 40-55RC	✓	✓	
STEEL 55-60RC	✓	✓	
STEEL, CARBON	✓	✓	
STEEL NICKLE, CHROME	✓	✓	
STEEL, STAINLESS	✓	✓	
STEEL WELDMENTS	✓	✓	
TITANIUM	✓	✓	
ZINC			✓



CARBIDE PROVIDES SMOOTH, RAPID REMOVAL OF METAL. ECONOMICALLY, ONE CARBIDE CUTTER WILL EASILY OUTPERFORM AND OUTLAST MOST CUTTERS MADE FROM HIGH SPEED OR CARBON STEEL.

SINGLE CUT (S)

GENERAL PURPOSE FLUTING OFFERING MEDIUM STOCK REMOVAL FOR DEBURRING, MILLING, CLEANING, AND FINISHING APPLICATIONS. PRODUCES LONG CHIPS.

DOUBLE CUT (D)

EFFICIENT STOCK REMOVAL FOR DEBURRING, FINISHING AND CLEANING. CREATES A SMALL CHIP FOR A GOOD FINISH. OFFERS EXCELLENT OPERATOR CONTROL.

ALUMACUT (A)

USE ON NON-FERROUS & NON-METALLIC MATERIALS. DESIGNED FOR RAPID STOCK REMOVAL, WITH MINIMUM CHIP LOADING.

SA BURS - CYLINDRICAL NO ENDCUT						
D1	L1	D2	L2	CUT TYPE		
				SINGLECUT	DOUBLECUT	ALUMACUT
1/16	1/4	1/8	1-1/2	SA41S	SA41D	SA41A
3/32	7/16	1/8	1-1/2	SA42S	SA42D	SA42A
1/8	9/16	1/8	1-1/2	SA43S	SA43D	SA43A
1/8 (.020 RADIUS)	9/16	1/8	1-1/2	SA43S020	SA43D020	-
1/8 (.040 RADIUS)	9/16	1/8	1-1/2	SA43S040	SA43D040	-
1/4	3/16	1/8	2	SA50S	SA50D	SA50A
1/4	1/2	1/8	2	SA51S	SA51D	SA51A
1/8	5/8	1/4	2	SA12S	SA12D	SA12A
3/16	5/8	1/4	2	SA14S	SA14D	SA14A
1/4	5/8	1/4	2	SA1S	SA1D	SA1A
5/16	3/4	1/4	2-1/2	SA2S	SA2D	SA2A
3/8	3/4	1/4	2-1/2	SA3S	SA3D	SA3A
7/16	1	1/4	2-3/4	SA4S	SA4D	SA4A
1/2	1	1/4	2-3/4	SA5S	SA5D	SA5A
5/8	1	1/4	2-3/4	SA6S	SA6D	SA6A
3/4	3/4	1/4	2-1/2	SA16S	SA16D	SA16A
3/4	1	1/4	2-3/4	SA7S	SA7D	SA7A
1	1	1/4	2-3/4	SA9S	SA9D	SA9A



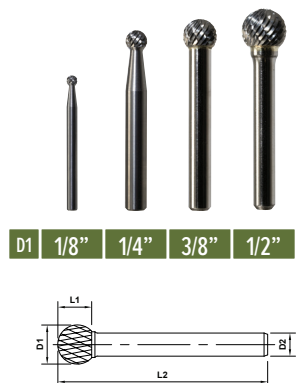
SB BURS - CYLINDRICAL WITH ENDCUT						
D1	L1	D2	L2	SINGLECUT	DOUBLECUT	ALUMACUT
				1/16	1/4	1/8
1/16	END CUT ONLY	1/8	1-1/2	SB41ECO	-	-
3/32	7/16	1/8	1-1/2	SB42S	SB42D	SB42A
1/8	9/16	1/8	1-1/2	SB43S	SB43D	SB43A
1/8	END CUT ONLY	1/8	1-1/2	SB43ECO	-	-
1/4	3/16	1/8	2-15/16	SB50S	SB50D	-
1/4	END CUT ONLY	1/8	2-15/16	SB50ECO	-	-
1/4	3/16	1/8	2-15/16	SB51S	SB51D	SB51A
1/4	END CUT ONLY	1/8	2-15/16	SB51ECO	-	-
1/8	5/8	1/4	2	SB12S	SB12D	SB12A
3/16	5/8	1/4	2	SB14S	SB14D	SB14A
1/4	5/8	1/4	2	SB1S	SB1D	SB1A
5/16	3/4	1/4	2-1/2	SB2S	SB2D	SB2A
3/8	3/4	1/4	2-1/2	SB3S	SB3D	SB3A
7/16	1	1/4	2-3/4	SB4S	SB4D	SB4A
1/2	1	1/4	2-3/4	SB5S	SB5D	SB5A
1/2	END CUT ONLY	1/4	2-3/4	SB5ECO	-	-
5/8	1	1/4	2-3/4	SB6S	SB6D	SB6A
3/4	3/4	1/4	2-1/2	SB16S	SB16D	SB16A
3/4	1	1/4	2-3/4	SB7S	SB7D	SB7A
1	1	1/4	2-3/4	SB9S	SB9D	SB9A



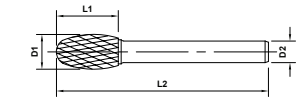
SC BURS - RADIUS CYLINDRICAL						
D1	L1	D2	L2	SINGLECUT	DOUBLECUT	ALUMACUT
				3/32	7/16	1/8
1/8	9/16	1/8	1-1/2	SC42S	SC42D	SC42A
1/4	1/2	1/8	2	SC51S	SC51D	SC51A
1/8	5/8	1/4	2	SC12S	SC12D	SC12A
3/16	5/8	1/4	2	SC14S	SC14D	SC14A
1/4	5/8	1/4	2	SC1S	SC1D	SC1A
5/16	3/4	1/4	2-1/2	SC2S	SC2D	SC2A
3/8	3/4	1/4	2-1/2	SC3S	SC3D	SC3A
7/16	1	1/4	2-3/4	SC4S	SC4D	SC4A
1/2	1	1/4	2-3/4	SC5S	SC5D	SC5A
5/8	1	1/4	2-3/4	SC6S	SC6D	SC6A
3/4	1	1/4	2-3/4	SC7S	SC7D	SC7A



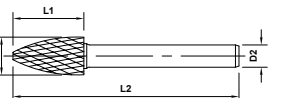
SD BURS - BALL						
D1	L1	D2	L2	SINGLECUT	DOUBLECUT	ALUMACUT
				3/32	3/32	1/8
1/8	1/8	1/8	1-1/2	SD42S	SD42D	SD42A
1/4	7/32	1/8	1-3/4	SD51S	SD51D	SD51A
1/8	3/32	1/4	2	SD12S	SD12D	SD12A
3/16	1/8	1/4	2	SD14S	SD14D	SD14A
1/4	7/32	1/4	2	SD1S	SD1D	SD1A
5/16	1/4	1/4	2-1/16	SD2S	SD2D	SD2A
3/8	5/16	1/4	2-1/8	SD3S	SD3A	SD3A
7/16	3/8	1/4	2-3/16	SD4S	SD4D	SD4A
1/2	7/16	1/4	2-1/4	SD5S	SD5D	SD5A
5/8	9/16	1/4	2-3/8	SD6S	SD6D	SD6A
3/4	11/16	1/4	2-1/2	SD7S	SD7D	SD7A
1	15/16	1/4	2-3/4	SD9S	SD9D	SD9A



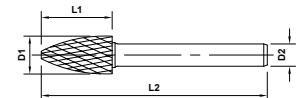
SE BURS - OVAL						
D1	L1	D2	L2	SINGLECUT	DOUBLECUT	ALUMACUT
				SE41S	SE41D	SE41A
1/8	7/32	1/8	1-1/2	SE51S	SE51D	SE51A
1/4	3/8	1/8	1-3/4	SE1S	SE1D	SE1A
1/4	3/8	1/4	2	SE3S	SE3D	SE3A
3/8	5/8	1/4	2-3/8	SE5S	SE5D	SE5A
1/2	7/8	1/4	2-5/8	SE6S	SE6D	SE6A
5/8	1	1/4	2-3/4	SE7S	SE7D	SE7A
3/4	1	1/4	2-3/4			



SF BURS - RADIUS TREE						
D1	L1	D2	L2	SINGLECUT	DOUBLECUT	ALUMACUT
				SF41S	SF41D	SF41A
1/8	1/4	1/8	1-1/2	SF42S	SF42D	SF42A
1/8	1/2	1/8	1-1/2	SF51S	SF51D	SF51A
1/4	1/2	1/8	2	SF12S	SF12D	SF12A
1/8	1/2	1/4	2	SF1S	SF1D	SF1A
1/4	5/8	1/4	2	SF3S	SF3D	SF3A
3/8	3/4	1/4	2-1/2	SF4S	SF4D	SF4A
7/16	1	1/4	2-3/4	SF13S	SF13D	SF13A
1/2	3/4	1/4	2-1/2	SF5S	SF5D	SF5A
1/2	1	1/4	2-3/4	SF6S	SF6D	SF6A
5/8	1	1/4	2-3/4	SF7S	SF7D	SF7A
3/4	1	1/4	2-3/4	SF14S	SF14D	SF14A
3/4	1-1/4	1/4	3	SF15S	SF15D	SF15A
3/4	1-1/2	1/4	3-1/4			



SG BURS - POINTED TREE						
D1	L1	D2	L2	SINGLECUT	DOUBLECUT	ALUMACUT
				SG41S	SG41D	SG41A
1/8	1/4	1/8	1-1/2	SG43S	SG43D	SG43A
1/8	3/8	1/8	1-1/2	-	SG43DSP	-
1/8	3/8	1/8	1-1/2	SG44S	SG44D	SG44A
1/8	1/2	1/8	1-1/2	SG51S	SG51D	SG51A
1/4	1/2	1/8	2	SG1S	SG1D	SG1A
1/4	5/8	1/4	2	SG2S	SG2D	SG2A
5/16	3/4	1/4	2-1/2	SG3S	SG3D	SG3A
3/8	3/4	1/4	2-1/2	SG13S	SG13D	SG13A
1/2	3/4	1/4	2-1/2	SG5S	SG5D	SG5A
1/2	1	1/4	2-3/4	SG6S	SG6D	SG6A
5/8	1	1/4	2-3/4	SG7S	SG7D	SG7A
3/4	1	1/4	2-3/4	SG15S	SG15D	SG15A
3/4	1-1/2	1/4	3-1/4			



SG43DSP HAS A SPECIAL SHARP POINT.

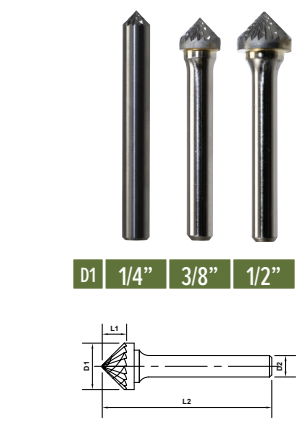
SH BURS - FLAME						
D1	L1	D2	L2	SINGLECUT	DOUBLECUT	ALUMACUT
				SH41S	SH41D	SH41A
1/8	1/4	1/8	1-1/2	SH1S	SH1D	SH1A
1/4	1/2	1/4	2	SH2S	SH2D	SH2A
5/16	3/4	1/4	2-1/2	SH5S	SH5D	SH5A
1/2	1-1/4	1/4	3	SH6S	SH6D	SH6A
5/8	1-7/16	1/4	3-3/16	SH7S	SH7D	SH7A
3/4	1-5/8	1/4	3-3/8			




SJ BURS - 60° CONE						
D1	L1	D2	L2	SINGLECUT	DOUBLECUT	ALUMACUT
				SJ42S	SJ42D	SJ42A
1/8	3/32	1/8	1-1/2	SJ42DES	SJ42DED	SJ42DEA
1/8	3/32	1/8	1-1/2	SJ81S	SJ81D	SJ81A
3/16	3/16	3/16	2	SJ1S	SJ1D	SJ1A
1/4	3/16	1/4	2	SJ1DES	SJ1DED	SJ1DEA
1/4	3/16	1/4	2	SJ2S	SJ2D	SJ2A
5/16	5/16	1/4	2-1/16	SJ3S	SJ3D	SJ3A
3/8	5/16	1/4	2-1/16	SJ5S	SJ5D	SJ5A
1/2	7/16	1/4	2-3/16	SJ6S	SJ6D	SJ6A
5/8	9/16	1/4	2-5/16	SJ7S	SJ7D	SJ7A
3/4	11/16	1/4	2-7/16	SJ9S	SJ9D	SJ9A
1	15/16	1/4	2-9/16			




SK BURS - 90° CONE						
D1	L1	D2	L2	SINGLECUT	DOUBLECUT	ALUMACUT
				SK42S	SK42D	SK42A
1/8	1/16	1/8	1-1/2	SK42DES	SK42DED	SK42DEA
1/8	1/16	1/8	1-1/2	SK1S	SK1D	SK1A
1/4	1/8	1/4	2	SK1DES	SK1DED	SK1DEA
1/4	1/8	1/4	2	SK2S	SK2D	SK2A
5/16	3/16	1/4	1-15/16	SK3S	SK3D	SK3A
3/8	3/16	1/4	2-1/16	SK4S	SK4D	SK4A
7/16	1/4	1/4	2	SK5S	SK5D	SK5A
1/2	1/4	1/4	2	SK6S	SK6D	SK6A
5/8	5/16	1/4	2-1/16	SK7S	SK7D	SK7A
3/4	3/8	1/4	2-1/8	SK9S	SK9D	SK9A
1	1/2	1/4	2-1/4			




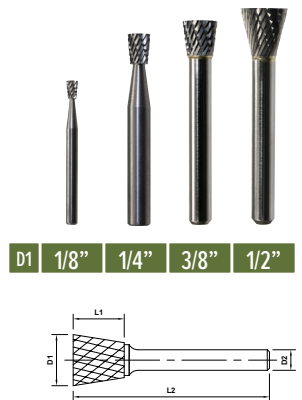
						
D1	L1	D2	L2	SINGLECUT	DOUBLECUT	ALUMACUT
				1/8	3/8	1/8
1/8	1/2	1/8	1-1/2	SL42S	SL42D	SL42A
1/4	5/8	1/4	2	SL1S	SL1D	SL1A
5/16	7/8	1/4	2-5/8	SL2S	SL2D	SL2A
3/8	1-1/16	1/4	2-13/16	SL3S	SL3D	SL3A
1/2	1-1/8	1/4	3-1/64	SL4S	SL4D	SL4A
5/8	1-3/16	1/4	2-15/16	SL5S	SL5D	SL5A
5/8	1-5/16	1/4	3-1/16	SL6S	SL6D	SL6A
3/4	1-1/2	1/4	3-1/4	SL7S	SL7D	SL7A



						
D1	L1	D2	L2	SINGLECUT	DOUBLECUT	ALUMACUT
				1/8	11/32	1/8
1/8	7/16	1/8	1-1/2	SM42S	SM42D	SM42A
1/8	5/8	1/8	1-1/2	SM43S	SM43D	SM43A
1/4	1/2	1/8	2-1/8	SM51S	SM51D	SM51A
1/4	1/2	1/4	2	SM1S	SM1D	SM1A
1/4	3/4	1/4	2	SM2S	SM2D	SM2A
1/4	1	1/4	2	SM3S	SM3D	SM3A
3/8	5/8	1/4	2-1/2	SM4S	SM4D	SM4A
1/2	7/8	1/4	2-3/4	SM5S	SM5D	SM5A
5/8	1	1/4	2-3/4	SM6S	SM6D	SM6A




						
D1	L1	D2	L2	SINGLECUT	DOUBLECUT	ALUMACUT
				3/32	1/8	1/8
1/8	3/16	1/8	1-1/2	SN42S	SN42D	SN42A
1/4	1/4	1/8	1-3/4	SN51S	SN51D	SN51A
1/4	5/16	1/4	2	SN1S	SN1D	SN1A
3/8	3/8	1/4	2-1/8	SN2S	SN2D	SN2A
1/2	1/2	1/4	2-1/4	SN3S	SN3D	SN3A
1/2	1/2	1/4	2-1/4	SN4S	SN4D	SN4A
5/8	5/8	1/4	2-3/8	SN5S	SN5D	SN5A
5/8	3/4	1/4	2-1/2	SN6S	SN6D	SN6A
3/4	5/8	1/4	2-3/8	SN7S	SN7D	SN7A



FRACTIONAL WOOD BOX BUR SETS

OUR MOST POPULAR BUR SETS IN A SOLID WOOD BOX.

	PIECES	BURS INCLUDED	SHANK	SINGLECUT	DOUBLECUT	ALUMACUT
				12	SA-43, SA-42, SC-42, SC-41, SD-42, SE-41, SF-41, SG-41, SH-41, SJ-42, SL-42, SN-42	1/8"
9	SA-51, SB-51, SC-51, SD-51, SE-51, SF-51, SG-51, SM-51, SN-51	1/8"	SETM110WSC	SETM110WDC	-	
12	SA-1, SA-14, SC-1, SC-14, SD-1, SE-1, SF-1, SG-1, SH-1, SJ-1, SM-1, SN-1	1/4"	SETM120WSC	SETM120WDC	-	
8	SA-1, SA-3, SC-1, SC-3, SD-1, SD-3, SF-1, SF-3	1/4"	SETM130WSC	SETM130WDC	SETM130WFM	
8	SB-1, SB-3, SC-1, SC-3, SD-1, SD-3, SF-1, SF-3	1/4"	SETM135WSC	SETM135WDC	SETM135WFM	
8	SA-3, SA-5, SC-3, SC-5, SD-3, SD-5, SF-3, SF-5	1/4"	SETM140WSC	SETM140WDC	SETM140WFM	
8	SB-3, SB-5, SC-3, SC-5, SD-3, SD-5, SF-3, SF-5	1/4"	SETM145WSC	SETM145WDC	SETM145WFM	
8	SA-5, SC-3, SC-5, SD-5, SF-3, SF-5, SG-3, SL-4	1/4"	SETM150WSC	SETM150WDC	SETM150WFM	
8	SB-5, SC-3, SC-5, SD-5, SF-3, SF-5, SG-3, SL-4	1/4"	SETM155WSC	SETM155WDC	SETM155WFM	

DIE MILLS - STANDARD AND PILOTED

DIE MILLS AVAILABLE IN DOUBLECUT AND AN EXTRA AGGRESSIVE COARSE DOUBLECUT. DIE MILLS ARE DESIGNED FOR CAST IRON, TITANIUM, STAINLESS, STEEL, HARDENED MATERIALS.



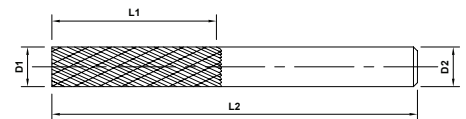
DIE MILLS					
D1	L1	D2	L2	DOUBLECUT	COARSE DOUBLECUT
1/8	1/2	1/8	1-1/2	MC28000	MC28020
5/32	1/2	3/16	2	MC28100	MC28120
3/16	5/8	3/16	2	MC28200	MC28220
1/4	3/4	1/4	2	MC28300	MC28320
5/16	13/16	5/16	2-1/2	MC28400	MC28420
3/8	1	3/8	2-1/2	MC28500	MC28520
7/16	1	7/16	3	MC28600	MC28620
1/2	1	1/2	3	MC28700	MC28720



DOUBLECUT



COARSE DOUBLECUT



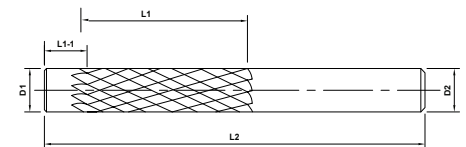
PILOTED DIE MILLS						
D1	L1	L1-1	D2	L2	SINGLECUT	DOUBLECUT
					MC22001	MC22000
3/16	2	3/16	3/16	3	MC22101	MC22100
1/4	1-1/4	1/4	1/4	3	MC22201	MC22200
3/8	2	3/8	3/8	4	MC22301	MC22300
1/2	2	1/2	1/2	4	MC22401	MC22400



SINGLECUT



DOUBLECUT









MINIATURE CARBIDE BURS 3/32" SHANK (DENTAL BURS)



ORDER MULTIPLES OF 6 EA



ISO# MEASUREMENT CONVERSIONS IN INCHES


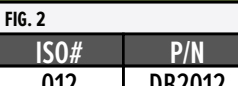
ISO#	008	009	010	012	014	016	018	023
INCH	.0315	.0354	.0393	.0472	.0551	.063	.0709	.0906



ROUND	
FIG. 1	
	
ISO#	P/N
003	DB1003
004	DB1004
005	DB1005
006	DB1006
007	DB1007
008	DB1008
009	DB1009
010	DB1010
012	DB1012
014	DB1014
016	DB1016
018	DB1018
021	DB1021
023	DB1023
025	DB1025
027	DB1027



CYLINDER SQ. SINGLE CUT	
FIG. 15	
	
ISO#	P/N
008	DB15008
009	DB15009
010	DB15010
012	DB15012
014	DB15014
016	DB15016
018	DB15018
021	DB15021
023	DB15023



CONE SQUARE SINGLE CUT LONG HEAD	
FIG. 17L	
	
ISO#	P/N
010	DB17L010
012	DB17L012
016	DB17L016



UNIVERSAL SINGLE CUT	
FIG. 23	
	
ISO#	P/N
008	DB23008
009	DB23009
010	DB23010
012	DB23012
014	DB23014
016	DB23016
018	DB23018
021	DB23021
023	DB23023



WHEEL	
FIG. 2	
	
ISO#	P/N
012	DB2012



CYLINDER SQ. SINGLE CUT LONG HEAD	
FIG. 15L	
	
ISO#	P/N
010	DB15L010
012	DB15L012
014	DB15L014


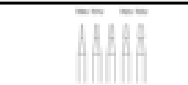
UNIVERSAL SINGLE CUT	
FIG. 17U	
	
ISO#	P/N
008	DB17U008
010	DB17U010
012	DB17U012
014	DB17U014
016	DB17U016
018	DB17U018



UNIVERSAL SINGLE CUT LONG HEAD	
FIG. 23L	
	
ISO#	P/N
009	DB23L009
010	DB23L010
012	DB23L012
016	DB23L016



INVERTED CONE	
FIG. 3	
	
ISO#	P/N
006	DB3006
007	DB3007
008	DB3008
009	DB3009
010	DB3010
012	DB3012
014	DB3014
016	DB3016
018	DB3018
023	DB3023


UNIVERSAL SINGLE CUT	
FIG. 15U	
	
ISO#	P/N
009	DB15U009
010	DB15U010
012	DB15U012
014	DB15U014

CYLINDER SQUARE CROSS CUT	
FIG. 21	
	
ISO#	P/N
008	DB21008
009	DB21009
010	DB21010
012	DB21012
014	DB21014
016	DB21016
018	DB21018
021	DB21021
023	DB21023

UNIVERSAL CONE CROSS CUT	
FIG. 23U	
	
ISO#	P/N
010	DB23U010
012	DB23U012
014	DB23U014
016	DB23U016
018	DB23U018

CONE SQUARE SINGLE CUT	
FIG. 17	
	
ISO#	P/N
008	DB17008
009	DB17009
010	DB17010
012	DB17012
014	DB17014
016	DB17016
018	DB17018

UNIVERSAL CROSS CUT	
FIG. 21U	
	
ISO#	P/N
009	DB21U009
010	DB21U010
012	DB21U012
014	DB21U014
016	DB21U016
018	DB21U018




ARC PREDATOR CUT-OFF WHEEL

DESIGNED TO PRODUCE AN EXCELLENT BLEND OF CUTTING SPEED AND LIFE ON THE TOUGHEST CUTTING APPLICATIONS.

- PRECISION THICKNESS FOR REFINED CUT AND CONTROL
- REINFORCED FOR THE MOST DEMANDING CUTTING APPLICATIONS
- DURABLE FOR HEAVY PRESSURE
- HIGH STABILITY

DIAMETER	ARBOR HOLE	GRAIN	GRIT	TYPE	THICKNESS	QUANTITY	PART NUMBER
3"	1/4"	ALUMINUM OXIDE	46	T1	1/16"	50	ARC903161403W
4"	1/4"	ALUMINUM OXIDE	60	T1	0.04	50	ARC904041405W
4"	3/8"	ALUMINUM OXIDE	60	T1	0.04	50	ARC904043805W
6"	7/8"	CERAMIC HYBRID	A46T	T1	1/16"	40	ARC906167803W

PERFORMANCE COATING REDUCES HEAT AND LOADING RESULTING IN A VERY FAST CUT AND LONGER WHEEL LIFE.



CUT-OFF WHEELS - BONDED

SUPERIOR DURABILITY WITH SUPER LONG LIFE WHEN FLEXIBILITY, RIGIDITY, AND TOUGHNESS ARE A MUST.

- A FINE ABRASIVE, IDEAL FOR THIN WALL TUBING, LEAVING A CLEAN BURR-FREE FINISH
- DOUBLE REINFORCED SB SERIES ALLOWS THE MAXIMUM PERFORMANCE






DIAMETER	THICKNESS	HOLE	TYPE	MAX RPM	PART NUMBER
15/16"	.025"	1/16"	NON-REINFORCED	21,000	COWNR1516025
1"	.035"	1/8"	REINFORCED	61,116	COW111618
1"	1/32"	1/8"	REINFORCED	61,116	COW113218
1"	1/8"	1/8"	REINFORCED	61,116	COW11818
1-1/4"	.049"	-	NON-REINFORCED	21,000	COWNR114049
1-1/4"	.062"	-	NON-REINFORCED	21,000	COWNR114062
1-1/2"	.025"	-	NON-REINFORCED	21,000	COWNR112025
1-1/2"	1/16"	1/8"	REINFORCED	45,000	COW11211618
1-1/2"	1/32"	1/8"	REINFORCED	45,000	COW11213218
2"	1/16"	1/4"	REINFORCED	30,000	COW211614
2"	1/16"	1/8"	REINFORCED	30,000	COW211618
2"	1/32"	1/4"	CERAMIC	30,558	COWC213214
2"	1/32"	1/4"	REINFORCED	30,000	COW213214
2"	1/32"	1/8"	REINFORCED	30,000	COW213218
2"	1/4"	1/4"	REINFORCED	30,000	COW21414E
3"	1/32"	3/8"	CERAMIC	35,000	SA646225
3"	.035"	1/4"	REINFORCED	25,000	COW303514
3"	1/16"	1/4"	REINFORCED	25,000	COW311614
3"	1/16"	3/8"	CERAMIC	25,000	COWC311638
3"	1/16"	3/8"	REINFORCED	25,000	COW311638
3"	1/2"	3/8"	REINFORCED	25,000	COW31238
3"	1/32"	1/4"	CERAMIC	25,000	COWC313214
3"	1/32"	1/4"	REINFORCED	27,000	COW313214
3"	1/32"	3/8"	GREEN CORPS	35,000	COW3M313238
3"	1/4"	3/8"	REINFORCED	27,000	COW313238
3"	1/8"	3/8"	ZIRC	23,900	COW313238ZK
3"	.045"	3/8"	REINFORCED	23,000	COW31438
3"	1/16"	3/8"	REINFORCED	25,000	COW31814
3"	1/8"	3/8"	REINFORCED	25,000	COW31838
3"	3/32"	1/4"	REINFORCED	25,000	COW333214

DIAMETER	THICKNESS	HOLE	TYPE	MAX RPM	PART NUMBER
4"	1/16"	3/8"	CERAMIC	21,000	SA646345
4"	1/8"	3/8"	REINFORCED	19,000	COW41838-36
4"	.035"	1/4"	REINFORCED	19,000	COW403514
4"	.035"	3/8"	REINFORCED	19,000	COW403538
4"	.040"	3/8"	REINFORCED	22,000	COW404038
4"	1/16"	1/4"	REINFORCED	19,000	COW411614
4"	1/16"	3/8"	REINFORCED	19,000	COW406238
4"	1/32"	1/4"	CERAMIC	19,000	COWC413214
4"	1/32"	1/4"	REINFORCED	22,000	COW413214
4-1/2"	.045"	7/8"	REINFORCED	15,000	CGW35514
5"	1/16"	7/8"	REINFORCED	12,223	COW511678
6"	.040"	7/8"	REINFORCED	10,200	COW604078HS
6"	.040"	7/8"	REINFORCED	10,183	COW604078
6"	.045"	7/8"	CERAMIC	10,200	CGW35517
6"	1/16"	7/8"	REINFORCED	10,186	COW611678
7"	1/16"	1/2"	REINFORCED	8,732	COW711612R
7"	1/16"	1-1/4"	REINFORCED	8,732	COW7116114R
7"	1/16"	1/2"	CERAMIC	8,700	COW711634R
7"	1/32"	1-1/4"	REINFORCED	5,460	CAI01923
7"	1/32"	1-1/4"	REINFORCED	8,700	COW7132114R
12"	1/8"	1"	CERAMIC	5,100	COW12181
14"	3/32"	1"	REINFORCED	4,365	CAI07086

SAFETY INFORMATION - When using abrasive wheels never bend or twist abrasive wheels. Do not jam the wheel onto the surface causing the motor to slow or stall. Use only edge surfaces of the abrasive wheel. Operate the tool directing the wheel away from your body before starting the cut. Engage the wheel gradually onto the work surface. Always wear protective clothing, including full face shield, respirator and OSHA certified goggles. Do not exceed the RPM speed rating printed on the label of the wheel.

	MANDRELS FOR CUT-OFF WHEELS AND MUSLIN BUFFS
	A VARIETY OF MANDRELS FOR USE WITH MOUNTING VARIOUS TYPES OF ABRASIVE & FINISHING WHEELS.

ALLOWS FOR QUICK & EASY CHANGE OF WHEELS WHERE DESIGN PERMITS BETTER ACCESS TO WORK AREAS.

PICTURE	SCREW	SHANK	OVERALL LENGTH	WHEEL THICKNESS	PART NUMBER
	1/16"	1/8"	1-3/4"	3/32-1/16"	WM109
	1/8"	1/8"	1-3/4"	3/32-1/16"	WM112
	1/4"	1/8"	2-1/8"	3/32-1/16"	WM114
	1/8"	1/4"	2-1/8"	3/32-1/16"	WM115*
	1/4"	1/4"	2-1/8"	3/32-1/16"	WM116
	1/4"	1/4"	2"	UP TO 1/4"	WM220
	1/4"	1/4"	2"	UP TO 3/8"	WM220L
	3/8"	1/4"	2"	UP TO 1/4"	WM223
	3/8"	1/4"	1.625"	UP TO 3/8"	WM230
	3/8"	1/4"	2.5"	UP TO 3/8"	WM231

SPI MOLD FINISH GUIDE

SPI FINISH	FINISHING METHOD	VISUAL DESCRIPTION	ROUGHNESS R.A.
A-1	MICRON GRADE # 3 DIAMOND	MIRROR / LENS	0-1
A-2	MICRON GRADE # 6 DIAMOND	HIGHLY POLISHED	1-2
A-3	MICRON GRADE # 15 DIAMOND	HIGH POLISH	2-3
B-1	600 GRIT PAPER	MEDIUM - HIGH POLISH	2-3
B-2	400 GRIT PAPER	MEDIUM POLISH	4-5
B-3	320 GRIT PAPER	MED - LOW POLISH	9-10
C-1	600 STONE	LOW - MED POLISH	10-12
C-2	400 STONE	LOW POLISH	25-30
C-3	320 STONE	LOWER POLISH	35-45
D-1	# 11 GLASS BEAD	SATIN FINISH	HIGH / VARIABLE
D-2	# 240 ALUMINUM OXIDE	DULL FINISH	HIGH / VARIABLE
D-3	# 24 ALUMINUM OXIDE	COARSE FINISH	HIGH / VARIABLE

THERE ARE TWELVE GRADES OF FINISHES SPECIFIED BY THE SPI IN FOUR CATEGORIES THAT RANGE FROM SHINY TO DULL.

NOTES:



VITRIFIED MOUNTED POINTS

A VITRIFIED (KILN MADE) ABRASIVE, MADE WITH VARIOUS GRITS AND GRAINS THAT COMES IN A VARIETY OF SHAPES AND SIZES. POINTS ARE CHOSEN FOR USE ON METALS FOR A SPECIFIC TASK OR AREA TO BE SHAPED, SMOOTHED AND FINISHED.

- NORMALLY OFFERED IN FINE, MEDIUM AND COARSE GRADES.

THESE PARTS ARE MOUNTED ON EITHER 1/8" OR 1/4" MANDRELS AS ARE STANDARD, HOWEVER OTHER SIZES, SHAPES, AND MANDREL DIAMETERS AND LENGTHS ARE AVAILABLE.

COLOR SELECTION CHART

COLOR	HARDNESS	GRIT	USAGE
WHITE	SOFT	COARSE	MOST METALS
BLACK	MEDIUM	COARSE	ALUMINUM AND SOFT METALS
BROWN / RED	MEDIUM	MEDIUM	MOST METALS
BLUE / BLACK	MEDIUM HARD	MEDIUM	DIES AND STOCK REMOVAL
GREY / BLUE	HARD	MEDIUM	TOOL STEEL
PINK	HARD	FINE	TOOL STEEL, DETAIL WORK AND STAINLESS
CERAMIC BLUE	VERY HARD	FINE	HARD STEEL AND DETAIL WORK

TO PREVENT LOADING, WE RECOMMEND A SOFT POINT WITH COARSE GRIT. FOR HARD METALS AND LONGER LIFE, WE RECOMMEND A HARD POINT AND FINE GRIT.

THERE ARE MANY FACTORS INVOLVED IN SELECTING THE IDEAL MOUNTED POINT FOR YOUR APPLICATION

THE FIRST FACTOR IS SIZE AND SHAPE:

WE OFFER ALL STANDARD SHAPES PLUS MANY CUSTOM SHAPES FOR YOUR APPLICATION.

THE SECOND FACTOR IS HARDNESS AND GRIT:

WE COLOR CODE OUR STONES TO GIVE YOU A BASIC GROUPING FOR USAGE BASED ON COLOR AND GRIT

MOUNTED POINTS WITH 1/8" SHANK HAVE A MINIMUM QUANTITY OF 25

POLISHING POINTS - *DESIGNED SPECIFICALLY FOR MOLD AND DIE WORK*

SHAPE	DIA.	LENGTH	GRIT	COLOR	PART NUMBER
HP28	3/32"	17/64"	120	BLUE	BOR292853
HP26	1/8"	9/32"	120	BLUE	BOR292653
HP12	1/8"	1/4"	120	BLUE	BOR291253
HP26	1/8"	9/32"	400	WHITE	BOR292652
28A	.052/.093	3/32	120	RED/BROWN	MP28A
27A	.061/.100	3/32	120	LIGHT BROWN	MP27A
HP23	13/64	11/32"	60-80	RED	BORHP23R
HP28	3/32"	17/64"	60-80	RED	BORHP28R
HP26	1/8"	9/32"	60-80	RED	BORHP26R
HP59	1/4"	1/2"	120	BLUE	BORHP59R
HP3	1/4"	7/64"	400	WHITE	BOR290352
HP22	13/64	11/32"	400	WHITE	BOR292252
HP60	3/16"	1/2"	60-80	RED	BOR296051
HP23	.131"	13/32"	120	BLUE	BOR292353
HP12	1/8"	1/4"	60-80	RED	BOR291251
HP12	1/8"	1/4"	400	WHITE	BOR291252



VITRIFIED MOUNTED POINTS "A" SHAPED

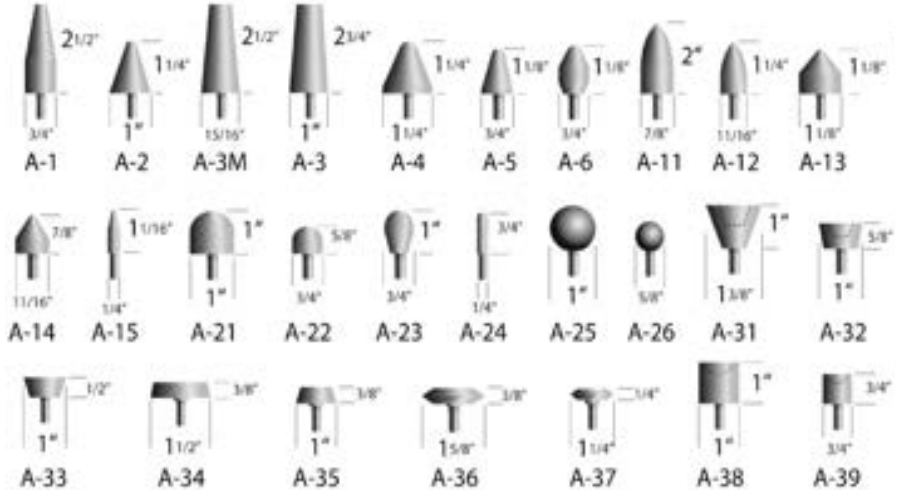
A VITRIFIED (KILN MADE) ABRASIVE, MADE WITH VARIOUS GRITS AND GRAINS THAT COMES IN A VARIETY OF SHAPES AND SIZES. POINTS ARE CHOSEN FOR USE ON METALS FOR A SPECIFIC TASK OR AREA TO BE SHAPED, SMOOTHED AND FINISHED.

- NORMALLY OFFERED IN FINE, MEDIUM AND COARSE GRADES.

COLOR SELECTION CHART

COLOR	HARDNESS	GRIT	USAGE
White	SOFT	COARSE	MOST METALS
Black	MEDIUM	COARSE	ALUMINUM AND SOFT METALS
Brown	MEDIUM	MEDIUM	MOST METALS
Blue	MEDIUM	MEDIUM	DIES AND STOCK REMOVAL
Grey	HARD	MEDIUM	TOOL STEEL
Pink	HARD	FINE	TOOL STEEL, DETAIL WORK AND STAINLESS
Light Blue	VERY HARD	FINE	HARD STEEL AND DETAIL WORK

OUR GENERAL SHAPE OF MOUNTED ABRASIVE POINTS ARE DESIGNED SPECIFICALLY FOR MOLD AND DIE WORK.



VITRIFIED MOUNTED POINT "A" SHAPED WITH 1/4" SHANKS

SHAPE	DIA.	LENGTH	WHITE	GREY	BROWN	BLUE	PINK	BLACK/PINK	CERAMIC BLUE
A1	3/4"	2-1/2"	MPA1W	MPA1G	MPA1BR	MPA1BL	MPA1P	MPA1BP	MPA1CB
A2	1"	1-1/4"	MPA2W	MPA2G	MPA2BR	MPA2BL	MPA2P	MPA2BP	MPA2CB
A3	7/8"	2-3/4"	MPA3W	MPA3G	MPA3BR	MPA3BL	MPA3P	MPA3BP	MPA3CB
A4	1-1/4"	1-1/4"	MPA4W	MPA4G	MPA4BR	MPA4BL	MPA4P	MPA4BP	MPA4CB
A5	3/5"	1-1/8"	MPA5W	MPA5G	MPA5BR	MPA5BL	MPA5P	MPA5BP	MPA5CB
A6	3/4"	1-1/8"	MPA6W	MPA6G	MPA6BR	MPA6BL	MPA6P	MPA6BP	MPA6CB
A11	7/8"	2"	MPA11W	MPA11G	MPA11BR	MPA11BL	MPA11P	MPA11BP	MPA11CB
A12	11/16"	1-1/4"	MPA12W	MPA12G	MPA12BR	MPA12BL	MPA12P	MPA12BP	MPA12CB
A13	1-1/8"	1-1/8"	MPA13W	MPA13G	MPA13BR	MPA13BL	MPA13P	MPA13BP	MPA13CB
A14	1-1/16"	7/8"	MPA14W	MPA14G	MPA14BR	MPA14BL	MPA14P	MPA14BP	MPA14CB
A15	1/4"	1-1/16"	MPA15W	MPA15G	MPA15BR	MPA15BL	MPA15P	MPA15BP	MPA15CB
A21	1"	1"	MPA21W	MPA21G	MPA21BR	MPA21BL	MPA21P	MPA21BP	MPA21CB
A22	3/4"	5/8"	MPA22W	MPA22G	MPA22BR	MPA22BL	MPA22P	MPA22BP	MPA22CB
A23	3/4"	1"	MPA23W	MPA23G	MPA23BR	MPA23BL	MPA23P	MPA23BP	MPA23CB
A24	1/4"	3/4"	MPA24W	MPA24G	MPA24BR	MPA24BL	MPA24P	MPA24BP	MPA24CB
A25	1"	1"	MPA25W	MPA25G	MPA25BR	MPA25BL	MPA25P	MPA25BP	MPA25CB
A26	5/8"	5/8"	MPA26W	MPA26G	MPA26BR	MPA26BL	MPA26P	MPA26BP	MPA26CB
A31	1-3/8"	1"	MPA31W	MPA31G	MPA31BR	MPA31BL	MPA31P	MPA31BP	MPA31CB
A32	1"	5/8"	MPA32W	MPA32G	MPA32BR	MPA32BL	MPA32P	MPA32BP	MPA32CB
A33	1"	1/2"	MPA33W	MPA33G	MPA33BR	MPA33BL	MPA33P	MPA33BP	MPA33CB
A34	1-1/2"	3/8"	MPA34W	MPA34G	MPA34BR	MPA34BL	MPA34P	MPA34BP	MPA34CB
A35	1"	3/8"	MPA35W	MPA35G	MPA35BR	MPA35BL	MPA35P	MPA35BP	MPA35CB
A36	1-5/8"	3/8"	MPA36W	MPA36G	MPA36BR	MPA36BL	MPA36P	MPA36BP	MPA36CB
A37	1-1/4"	1/4"	MPA37W	MPA37G	MPA37BR	MPA37BL	MPA37P	MPA37BP	MPA37CB
A38	1"	1"	MPA38W	MPA38G	MPA38BR	MPA38BL	MPA38P	MPA38BP	MPA38CB
A39	3/4"	3/4"	MPA39W	MPA39G	MPA39BR	MPA39BL	MPA39P	MPA39BP	MPA39CB
A40	3/4"	3/4"	MPA40W	MPA40G	MPA40BR	MPA40BL	MPA40P	MPA40BP	MPA40CB

HIGHLIGHTED ITEMS IN BOLD FACE ARE CONSIDERED STOCKED ITEMS. MINIMUM ORDER QUANTITY: 25 PIECES.

THE REMAINING MOUNTED POINTS ARE TYPICALLY NOT STOCKED. THEY ARE AVAILABLE IN MINIMUM QUANTITIES OF 100.



VITRIFIED MOUNTED POINTS “B” SHAPED

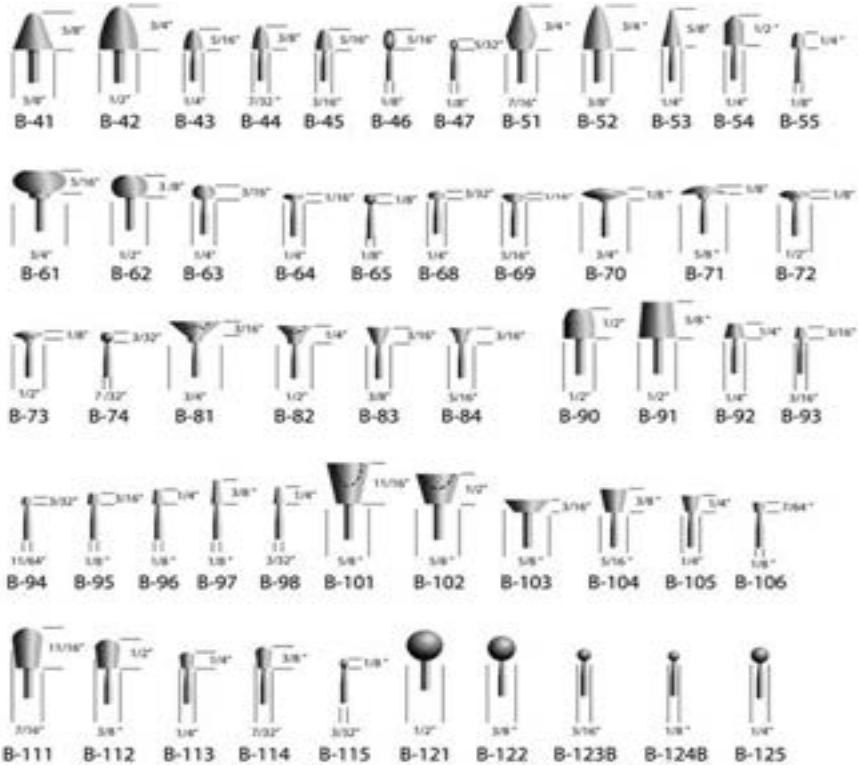
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- NORMALLY OFFERED IN FINE, MEDIUM AND COARSE GRADES.

COLOR SELECTION CHART			
COLOR	HARDNESS	GRIT	USAGE
	SOFT	COARSE	MOST METALS
	MEDIUM	COARSE	ALUMINUM AND SOFT METALS
	MEDIUM	MEDIUM	MOST METALS
	MEDIUM	MEDIUM	DIES AND STOCK REMOVAL
	HARD	MEDIUM	TOOL STEEL
	HARD	FINE	TOOL STEEL, DETAIL WORK AND STAINLESS
	VERY HARD	FINE	HARD STEEL AND DETAIL WORK

OUR GENERAL SHAPE OF MOUNTED ABRASIVE POINTS ARE DESIGNED SPECIFICALLY FOR MOLD AND DIE WORK.

THEY ARE MANUFACTURED FROM PREMIUM ALUMINUM OXIDE AND SPECIAL BONDING MATERIALS TO ASSURE RAPID STOCK REMOVAL AND LONG LIFE.



VITRIFIED MOUNTED POINT “B” SHAPED WITH 1/8” SHANKS

SHAPE	DIA.	LENGTH	WHITE	GREY	BROWN	BLUE	PINK	BLACK/PINK	CERAMIC BLUE
B41	5/8”	5/8”	MPB41W	MPB41G	MPB41BR	MPB41BL	MPB41P	MPB41BP	MPB41CB
B42	1/2”	3/4”	MPB42W	MPB42G	MPB42BR	MPB42BL	MPB42P	MPB42BP	MPB42CB
B43	1/4”	5/16”	MPB43W	MPB43G	MPB43BR	MPB43BL	MPB43P	MPB43BP	MPB43CB
B44	7/32”	3/8”	MPB44W	MPB44G	MPB44BR	MPB44BL	MPB44P	MPB44BP	MPB44CB
B45	3/16”	5/16”	MPB45W	MPB45G	MPB45BR	MPB45BL	MPB45P	MPB45BP	MPB45CB
B46	1/8”	5/16”	MPB46W	MPB46G	MPB46BR	MPB46BL	MPB46P	MPB46BP	MPB46CB
B47	1/8”	5/32”	MPB47W	MPB47G	MPB47BR	MPB47BL	MPB47P	MPB47BP	MPB47CB
B51	7/16”	3/4”	MPB51W	MPB51G	MPB51BR	MPB51BL	MPB51P	MPB51BP	MPB51CB
B52	3/8”	3/4”	MPB52W	MPB52G	MPB52BR	MPB52BL	MPB52P	MPB52BP	MPB52CB
B53	1/4”	5/8”	MPB53W	MPB53G	MPB53BR	MPB53BL	MPB53P	MPB53BP	MPB53CB
B81	3/4”	3/16”	MPB81W	MPB81G	MPB81BR	MPB81BL	MPB81P	MPB81BP	MPB81CB
B96	1/8”	1/4”	MPB96W	MPB96G	MPB96BR	MPB96BL	MPB96P	MPB96BP	MPB96CB
B97	1/8”	3/8”	MPB97W	MPB97G	MPB97BR	MPB97BL	MPB97P	MPB97BP	MPB97CB
B98	3/32”	1/4”	MPB98W	MPB98G	MPB98BR	MPB98BL	MPB98P	MPB98BP	MPB98CB
B121	1/2”	1/2”	MPB121W	MPB121G	MPB121BR	MPB121BL	MPB121P	MPB121BP	MPB121CB
B122	3/8”	3/8”	MPB122W	MPB122G	MPB122BR	MPB122BL	MPB122P	MPB122BP	MPB122CB
B123	3/16”	3/16”	MPB123W	MPB123G	MPB123BR	MPB123BL	MPB123P	MPB123BP	MPB123CB
B124	1/8”	1/8”	MPB124W	MPB124G	MPB124BR	MPB124BL	MPB124P	MPB124BP	MPB124CB
B125	1/4”	1/4”	MPB125W	MPB125G	MPB125BR	MPB125BL	MPB125P	MPB125BP	MPB125CB

HIGHLIGHTED ITEMS IN BOLD FACE ARE CONSIDERED STOCKED ITEMS. MINIMUM ORDER QUANTITY: 25 PIECES. THE REMAINING MOUNTED POINTS ARE TYPICALLY NOT STOCKED. THEY ARE AVAILABLE IN MINIMUM QUANTITIES OF 100.



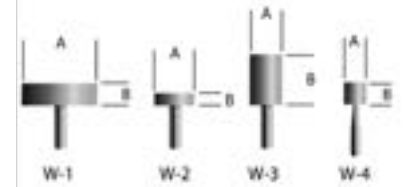
VITRIFIED MOUNTED POINTS “W” SHAPED

A VITRIFIED (KILN MADE) ABRASIVE, MADE WITH VARIOUS GRITS AND GRAINS THAT COMES IN A VARIETY OF SHAPES AND SIZES. POINTS ARE CHOSEN FOR USE ON METALS FOR A SPECIFIC TASK OR AREA TO BE SHAPED, SMOOTHED AND FINISHED.

- NORMALLY OFFERED IN FINE, MEDIUM AND COARSE GRADES.

ALL “W” SHAPES ARE CYLINDRICAL. DIAMETER AND THICKNESS MEASURED AS ILLUSTRATED.

OUR GENERAL SHAPE OF MOUNTED ABRASIVE POINTS ARE DESIGNED SPECIFICALLY FOR MOLD AND DIE WORK.



VITRIFIED MOUNTED POINT “W” SHAPED WITH 1/8” SHANKS

SHAPE	DIA.	LENGTH	WHITE	GREY	BROWN	BLUE	PINK	BLACK/PINK	CERAMIC BLUE
W142	3/4”	2-1/2”	MPW143W	MPW143G	MPW143BR	MPW143BL	MPW143P	MPW143BP	MPW143CB
W144	1”	1-1/4”	MPW144W	MPW144G	MPW144BR	MPW144BL	MPW144P	MPW144BP	MPW144CB
W145	7/8”	2-3/4”	MPW145W	MPW145G	MPW145BR	MPW145BL	MPW145P	MPW145BP	MPW145CB
W146	1-1/4”	1-1/4”	MPW146W	MPW146G	MPW146BR	MPW146BL	MPW146P	MPW146BP	MPW146CB
W152	3/5”	1-1/8”	MPW152W	MPW152G	MPW152BR	MPW152BL	MPW152P	MPW152BP	MPW152CB
W153	3/4”	1-1/8”	MPW153W	MPW153G	MPW153BR	MPW153BL	MPW153P	MPW153BP	MPW153CB
W154	7/8”	2”	MPW154W	MPW154G	MPW154BR	MPW154BL	MPW154P	MPW154BP	MPW154CB
W160	11/16”	1-1/4”	MPW160W	MPW160G	MPW160BR	MPW160BL	MPW160P	MPW160BP	MPW160CB
W162	1-1/8”	1-1/8”	MPW162W	MPW162G	MPW162BR	MPW162BL	MPW162P	MPW162BP	MPW162CB
W163	1-1/16”	7/8”	MPW163W	MPW163G	MPW163BR	MPW163BL	MPW163P	MPW163BP	MPW163CB
W164	1/4”	1-1/16”	MPW164W	MPW164G	MPW164BR	MPW164BL	MPW164P	MPW164BP	MPW164CB
W169	1”	1”	MPW169W	MPW169G	MPW169BR	MPW169BL	MPW169P	MPW169BP	MPW169CB
W170	3/4”	5/8”	MPW170W	MPW170G	MPW170BR	MPW170BL	MPW170P	MPW170BP	MPW170CB
W171	3/4”	1”	MPW171W	MPW171G	MPW171BR	MPW171BL	MPW171P	MPW171BP	MPW171CB
W173	1/4”	3/4”	MPW173W	MPW173G	MPW173BR	MPW173BL	MPW173P	MPW173BP	MPW173CB
W175	1”	1”	MPW175W	MPW175G	MPW175BR	MPW175BL	MPW175P	MPW175BP	MPW175CB
W176	5/8”	5/8”	MPW176W	MPW176G	MPW176BR	MPW176BL	MPW176P	MPW176BP	MPW176CB
W177	1-3/8”	1”	MPW177W	MPW177G	MPW177BR	MPW177BL	MPW177P	MPW177BP	MPW177CB
W178	1”	5/8”	MPW178W	MPW178G	MPW178BR	MPW178BL	MPW178P	MPW178BP	MPW178CB
W181	3/4”	2-1/2”	MPW181W	MPW181G	MPW181BR	MPW181BL	MPW181P	MPW181BP	MPW181CB
W182	1”	1-1/4”	MPW182W	MPW182G	MPW182BR	MPW182BL	MPW182P	MPW182BP	MPW182CB
W185	7/8”	2-3/4”	MPW185W	MPW185G	MPW185BR	MPW185BL	MPW185P	MPW185BP	MPW185CB
W186	1-1/4”	1-1/4”	MPW186W	MPW186G	MPW186BR	MPW186BL	MPW186P	MPW186BP	MPW186CB
W187	3/5”	1-1/8”	MPW187W	MPW187G	MPW187BR	MPW187BL	MPW187P	MPW187BP	MPW187CB
W190	3/4”	1-1/8”	MPW190W	MPW190G	MPW190BR	MPW190BL	MPW190P	MPW190BP	MPW190CB
W191	7/8”	2”	MPW191W	MPW191G	MPW191BR	MPW191BL	MPW191P	MPW191BP	MPW191CB
W195	11/16”	1-1/4”	MPW195W	MPW195G	MPW195BR	MPW195BL	MPW195P	MPW195BP	MPW195CB
W196	1-1/8”	1-1/8”	MPW196W	MPW196G	MPW196BR	MPW196BL	MPW196P	MPW196BP	MPW196CB
W197	1-1/16”	7/8”	MPW197W	MPW197G	MPW197BR	MPW197BL	MPW197P	MPW197BP	MPW197CB
W201	1/4”	1-1/16”	MPW201W	MPW201G	MPW201BR	MPW201BL	MPW201P	MPW201BP	MPW201CB
W204	1”	1”	MPW204W	MPW204G	MPW204BR	MPW204BL	MPW204P	MPW204BP	MPW204CB
W205	3/4”	5/8”	MPW205W	MPW205G	MPW205BR	MPW205BL	MPW205P	MPW205BP	MPW205CB
W207	3/4”	1”	MPW207W	MPW207G	MPW207BR	MPW207BL	MPW207P	MPW207BP	MPW207CB
W215	1/4”	3/4”	MPW215W	MPW215G	MPW215BR	MPW215BL	MPW215P	MPW215BP	MPW215CB
W218	1”	1”	MPW218W	MPW218G	MPW218BR	MPW218BL	MPW218P	MPW218BP	MPW218CB
W220	5/8”	5/8”	MPW220W	MPW220G	MPW220BR	MPW220BL	MPW220P	MPW220BP	MPW220CB
W236	1-3/8”	1”	MPW236W	MPW236G	MPW236BR	MPW236BL	MPW236P	MPW236BP	MPW236CB

HIGHLIGHTED ITEMS IN BOLD FACE ARE CONSIDERED STOCKED ITEMS. MINIMUM ORDER QUANTITY: 25 PIECES.

THE REMAINING MOUNTED POINTS ARE TYPICALLY NOT STOCKED. THEY ARE AVAILABLE IN MINIMUM QUANTITIES OF 100.

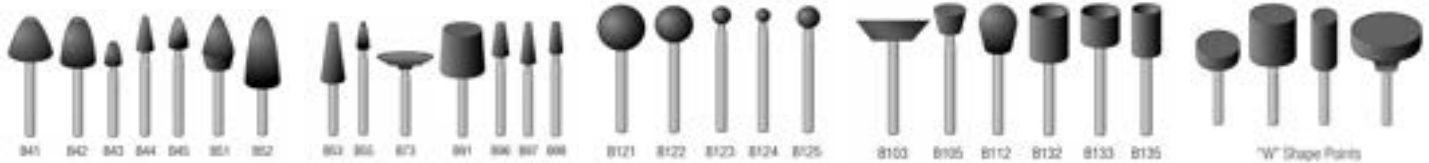


PREMIUM PURPLE MOUNTED POINTS

PREMIUM PINK FUSED ALUMINUM OXIDE GRAIN COMBINED WITH THE UNIQUE SOL GEL CERAMIC GRAIN FOR AN EXTREMELY LONG LASTING, BUT COOL CUTTING, MOUNTED POINT.

- DOUBLE THE LIFE OF A STANDARD MOUNTED POINT IN MOST CASES.
- COOLER RUNNING - LESS POSSIBILITY OF THERMAL DAMAGE DURING POLISHING.
- LESS FORCE NEEDED DURING POLISHING.

ORDER MULTIPLES OF 25 EA



"B" SHAPE		80 GRIT		100 GRIT		120 GRIT	
		1/8" MANDREL	3 MM MANDREL	1/8" MANDREL	3 MM MANDREL	1/8" MANDREL	3 MM MANDREL
B43	1/4 X 5/16"	MP241110	MP241112	-	-	-	-
B44	7/32 X 3/8"	-	-	MP241134	MP241136	-	-
B45	3/16 X 5/16"	-	-	MP241138	MP241140	-	-
B51	7/16 X 3/4"	MP241114	MP241116	-	-	-	-
B52	3/8 X 3/4"	MP241118	MP241120	-	-	-	-
B53	1/4 X 5/8"	-	-	-	-	MP241154	MP241156
B55	1/8 X 1/4"	-	-	-	-	MP241158	MP241160
B73	1/2 X 1/8"	MP241122	MP241124	-	-	-	-
B97	1/8 X 3/8"	-	-	-	-	MP241162	MP241164
B103	5/8 X 3/16"	-	-	MP241142	MP241144	-	-
B123	3/16 X 3/16"	-	-	MP241146	MP241148	-	-
B124	1/8 X 1/8"	-	-	-	-	MP241166	MP241168
B125	1/4 X 1/4"	-	-	MP241150	MP241152	-	-
B132	3/8 X 1/2"	MP241126	MP241128	-	-	-	-
B135	1/4 X 1/2"	MP241130	MP241132	-	-	-	-

"W" SHAPE		80 GRIT		100 GRIT		120 GRIT	
		1/8" MANDREL	3 MM MANDREL	1/8" MANDREL	3 MM MANDREL	1/8" MANDREL	3 MM MANDREL
W142	3/32 X 1/4"	-	-	-	-	MP241216	MP241218
W144	1/8 X 1/4"	-	-	-	-	MP241220	MP241222
W145	1/8 X 3/8"	-	-	-	-	MP241224	MP241226
W146	1/8 X 1/2"	-	-	-	-	MP241228	MP241230
W152	3/16 X 1/4"	MP241170	MP241172	-	-	-	-
W153	3/16 X 3/8"	MP241174	MP241176	-	-	-	-
W154	3/16 X 1/2"	MP241178	MP241180	-	-	-	-
W160	1/4 X 1/4"	MP241182	MP241184	-	-	-	-
W162	1/4 X 3/8"	MP241188	MP241190	-	-	-	-
W163	1/4 X 1/2"	MP241192	MP241194	-	-	-	-
W164	1/4 X 3/4"	-	-	MP241208	MP241210	-	-
W175	3/8 X 3/8"	MP241196	MP241198	-	-	-	-
W176	3/8 X 1/2"	MP241200	MP241202	-	-	-	-
W182	1/2 X 1/8"	-	-	MP241212	MP241214	-	-
W185	1/2 X 1/2"	MP241204	MP241206	-	-	-	-

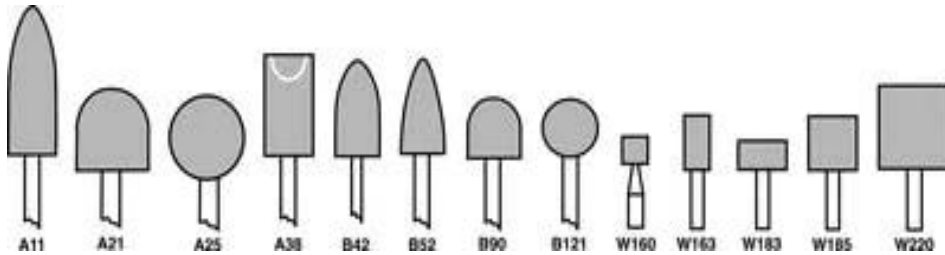


STANDARD ABRASIVES UNITIZED MOUNTED POINT

UNITIZED MOUNTED POINT LIGHTLY DEBURRS, BLENDS AND FINISHES METAL AND PLASTIC PARTS. MANY DIFFERENT SHAPES AND SIZES TO MATCH SPECIFIC SMALL PARTS WITH HARD-TO-REACH AREAS.

- COMPACT ABRASIVE LIGHTLY DEBURRS AND FINISHES THE WORKPIECE WITHOUT CHANGING PART GEOMETRY
- UNITIZED PRODUCTION METHOD COMPRESSES ABRASIVE WEB FOR GREATER DENSITY AND DURABILITY
- NON-WOVEN CONSTRUCTION RESISTS LOADING DURING USE

ORDER MULTIPLES OF 5 EA



SHAPE	COLOR	GRADE	DIA.	LENGTH	PART NUMBER
A1	BLACK	FINE	1/4"	1"	SA877057
A1	BLUE	MEDIUM	3/4"	1"	SA877058
A3	BLACK	FINE	1/4"	3"	SA877059
A11	BLACK	FINE	7/8"	2"	SA877061
B42	BLACK	MEDIUM/HARD	1/2"	3/4"	SA877065
B52	BLUE	MEDIUM	3/8"	3/4"	SA877001
B52	BLACK	FINE	3/8"	3/4"	SA877003
B52	LIGHT GRAY	FINE	3/8"	3/4"	SA877000
B52	DARK GRAY	COARSE	3/8"	3/4"	SA877002
B90	LIGHT GRAY	FINE	1/2"	1/2"	SA877004
B90	DARK GRAY	COARSE	1/2"	1/2"	SA877006
B90	BLACK	FINE	1/2"	1/2"	SA877007
B90	GOLD	FINE	1/2"	1/2"	SA877038
B121	BLUE	MEDIUM	1/2"	1/2"	SA877009
B121	RED	FINE	1/2"	1/2"	SA877039
W160	BLUE	MEDIUM	1/4"	1/4"	SA877019
W160	BLACK	FINE	1/4"	1/4"	SA877040
W163	BLACK	FINE	1/4"	1/2"	SA877045
W163	LIGHT GRAY	FINE	1/4"	1/2"	SA877041
W163	BLUE	MEDIUM	1/4"	1/2"	SA877021
W163	DARK GRAY	COARSE	1/4"	1/2"	SA877022
W183	BLUE	MEDIUM	1/2"	1/4"	SA877024
W185	GOLD	FINE	1/2"	1/2"	SA877028
W185	RED	FINE	1/2"	1/2"	SA877032
W220	BLUE	MEDIUM	1"	1"	SA877034







UNITIZED MOUNTED POINTS DEBURR AND FINISH WITHOUT ALTERING THE SHAPE OF THE WORKPIECE, AND SELF-DRESS TO CONTINUALLY EXPOSE FRESH MINERAL DURING USE FOR EFFICIENT OPERATIONS.

TECH TIP: UNITIZED MOUNTED POINTS


HIGH RPM: DEBURRING AND BLENDING


LOW RPM: DECORATIVE FINISHING


HIGH SPEED AND LOW PRESSURE: POLISHING


		BOAT STONES		
		USED PRIMARILY ON LARGE DIE SEAMS AND BREAKING DOWN SHARP EDGES ON MACHINE PARTS.		
		<ul style="list-style-type: none"> • GOOD FOR THE INITIAL REMOVAL OF LARGE DIE SEAMS • BREAKING DOWN SHARP EDGES ON MACHINED PARTS • UNIQUE SHAPE ALLOWS THEM TO FIT EASILY INTO MACHINISTS' HANDS 		
COLOR		GRAIN TYPE	GRIT	PART NUMBER
		A/O	80	BS80W
		SILICON CARBIDE	80	BSGREEN
		A/O	100	BS100B
		A/O	120	BS120P
		A/O	120	BS120WT

DIMENSIONS: 9 X 2-1/2 X 1-1/2"

DRESSING STICKS			
	DRESSING GREATLY IMPROVES THE PERFORMANCE OF ALL WHEELS AND IS AN IMPORTANT PART OF GETTING THE MAXIMUM LIFE.		
	DIMENSIONS	SPECIFICATION	PART NUMBER
	1 X 1 X 6"	GRAY - COARSE	DS116
	1 X 1 X 6"	GRAY - COARSE	DS116/24
	1 X 1 X 6"	GRAY - MEDIUM	DS116/46
	1/2 X 1/2 X 6"	WHITE - FINE (220G)	DS12126

DOUBLE SIDED DRESSING STICKS GRAY - COARSE/FINE		
	DIMENSIONS	PART NUMBER
	1 x 1 x 4"	DS114/COMBO

AXE STONE - ROUND COMBINATION STONE		
	DIMENSIONS	4 X 1-1/2"
	SPECIFICATION	SILICON CARBIDE COMBINATION
	GRIT	120/320
	PART NUMBER	RC120320

DRESSING STONE FOR MOUNTED POINTS	
	THIS COARSE SILICON CARBIDE STONE IS USED TO DRESS, SHAPE AND CLEAN MOUNTED POINTS. IT HAS 1/16", 1/8", 3/16", AND 1/4" GROOVES WHICH QUICKLY RESHAPE AND RESURFACE ABRASIVES STONES AND POINTS TO LIKE NEW CONDITION.
	PART NUMBER



GRINDING WHEELS - BENCH AND PEDESTAL WHEELS

BENCH AND PEDESTAL WHEELS PROVIDE METAL REMOVAL, DEBURRING, SHAPING AND SHARPENING NEEDS. AVAILABLE TO FIT MANY SIZES AND SPECIFICATION OF MACHINES.

EVERY TOOL CRIB NEEDS LONG-LASTING, MULTI-PURPOSE BENCH AND PEDESTAL GRINDING WHEELS.

APPLICATION RECOMMENDATION GUIDE							
COARSER (GRINDING)				FINER (FINISHING)			
GRIT	24	36	46	60	80	100	120
	HEAVY STOCK REMOVAL						
		MEDIUM STOCK REMOVAL					
			LIGHT STOCK REMOVAL				
				DEBURRING / SHAPING			
					SHARPENING		
						FINAL FINISHING	

WITH VARIOUS DIAMETERS, ARBOR SIZES, GRAINS AND GRIT SIZES AVAILABLE, WE CAN GET THE RIGHT WHEEL FOR YOUR APPLICATION.

APPLICATIONS:	OFF-HAND DEBURRING AND SHARPENING OF PARTS AND TOOLS, MAINTENANCE, TOOL & DIE, AND METAL FABRICATION SHOPS
SIZE RANGE:	5" – 12"
GRIT RANGE:	24 – 150
ABRASIVE TYPES:	ALUMINUM OXIDE (ALUNDUM) / SILICON CARBIDE (CRYSTOLON)
BUSHINGS:	TELESCOPIC ARBOR BUSHINGS TO FIT ALL POPULAR GRINDERS ARE PACKAGED WITH THE WHEEL.

MOST POPULAR NORTON GRINDING WHEELS

SPEC	SIZE	TYPE	PART NUMBER
32A60HVBEP	7X1/2X1-1/4	TY1	NOR41314
CRYSTOLON 39C SC	8X1X1	TY1	NOR44087
32A60KVBE	7X1/4X1	TY1	NOR39552
46-J	12X1X3	TY1	NOR62501



MATERIAL-TO-PRODUCT RECOMMENDATION GUIDE

USED ON SURFACE, CYLINDRICAL AND TOOL AND CUTTER GRINDERS. NORTON PRECISION, FORM-HOLDING VITRIFIED TOOL ROOM WHEELS MAXIMIZE YOUR PRODUCTIVITY. AVAILABLE IN LATEST GENERATION CERAMIC ALUMINA, ALUMINUM OXIDE AND SILICON CARBIDE – FOR EVERY FERROUS AND ON FERROUS MRO, SMALL JOB SHOP, AND PRECISION OPERATION.

SURFACE GRINDING, TOOL AND CUTTER GRINDING, DRILL SHARPENING.

PERFORMANCE/PRODUCTIVITY APPLICATION / MATERIAL	NARROW CONTACT AREA			MEDIUM CONTACT AREA			WIDE CONTACT AREA		
	BEST	BETTER	GOOD	BEST	BETTER	GOOD	BEST	BETTER	GOOD
TOOL / RESHARPENING									
HEAVY STOCK REMOVAL (> .004)							5SG46-GVSP	32A46-GVBEP	38A46-VBEP
HSS & TOOL STEEL RC 50-68	5SG46-KVS	32A46-KVBE	38A46-KVBE	5SG46-JVS	32A46-JVBE	38A46-JVBE	3SGR46-GVP2	48A46-GVP2	38A46-GVP2
MODERATE STOCK REMOVAL (.002-.004)							5SG60-GVSP	32A60-GVBEP	
HSS & TOOL STEEL RC 50-68	5SG60-KVS	32A60-KVBE	38A60-KVBE	5SG60-JVS	32A60-JVBE	38A60-JVBE	3SGR60-GVP2	48A60-GVP2	38A60-GVBEP
CARBIDE			39C60-JVK			39C60-JVK			
SURFACE GRINDING									
HEAVY STOCK REMOVAL (> .004)									
HSS & TOOL STEEL RC 50-68							5SG46-GVSP	32A46-GVBEP	38A46-GVBEP
400 SERIES STAINLESS	5N046-JVS	32A46-JVBE	38A46-JVBE	5SG46-IVS	32A46-IVBE	38A46-IVBE	3SGR46-GVP2	48A46-GVP2	38A46-GVP2
SOFT STEELS RC 30-45							5SG46-HVSP	32A46-HVBEP	38A46-HVBEP
300 SERIES STAINLESS	5SG46-KVS	32A46-KVBE	38A46-KVBE	5SG46-JVS	32A46-JVBE	38A46-JVBE	3SGR46-HVP2	48A46-HVP2	38A46-HVP2
CAST IRON: DUCTILE & GRAY	5SG46-KVS	32A46-KVBE	38A46-KVBE	5SG46-JVS	32A46-JVBE	38A46-JVBE	5SG46-HVSP 3SGR46-GVP2	32A46-HVBEP 48A46-HVP2	38A46-HVBEP 38A46-HVP2
NONFERROUS ALLOYS			39C46-JVK			39C46-IVK			
MODERATE STOCK REMOVAL (.002-.004)									
HSS & TOOL STEEL RC 50-68							5SG60-GVSP	32A60-GVBEP	
400 SERIES STAINLESS	5N060-JVS	32A60-JVBE	38A60-JVBE	5SG60-IVS	32A60-IVBE	38A60-IVBE	3SGR60-GVP2	48A60-GVP2	38A60-GVBEP
SOFT STEELS RC 30-45								32A60-HVBEP	38A60-HVBEP
300 SERIES STAINLESS	5SG60-KVS	32A60-KVBE	38A60-KVBE	5SG60-JVS	32A60-JVBE	38A60-JVBE	3SGR60-HVP2	48A60-HVP2	38A60-HVP2
CAST IRON: DUCTILE & GRAY	5SG60-KVS	32A60-KVBE	38A60-KVBE	5SG60-JVS	32A60-JVBE	38A60-JVBE	3SGR60-HVP2	32A60-HVBEP 48A60-HVP2	38A60-HVBEP 38A60-HVP2
NONFERROUS ALLOYS			39C60-JVK			39C60-IVK			
LIGHT STOCK REMOVAL AND FINISHING (<.001)									
HSS & TOOL STEEL RC 50-68									
400 SERIES STAINLESS		32A80-JVBE	38A80-JVBE		32A80-IVBE	38A80-IVBE		32A80-HVBE	38A80-HVBE
SOFT STEELS RC 30-45									
300 SERIES STAINLESS		32A80-KVBE	38A80-KVBE		32A80-JVBE	38A80-JVBE		32A80-IVBE	38A80-IVBE
CAST IRON: DUCTILE & GRAY		32A80-KVBE	38A80-KVBE		32A80-JVBE	38A80-JVBE		32A80-IVBE	38A80-IVBE
NONFERROUS ALLOYS			39C80-JVK			39C80-IVK			39C80-HVK

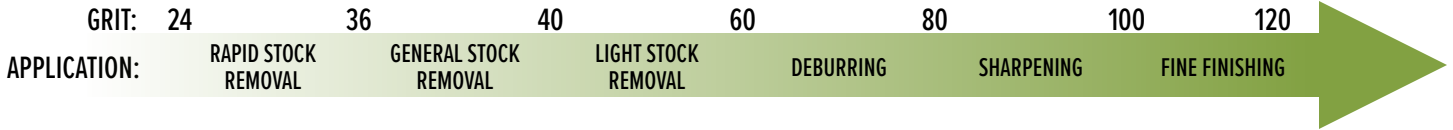
BONDS	DESCRIPTION
VS	QUANTUM (GREEN) AND NORTON SG (BLUE): HIGH STOCK REMOVAL; NARROW/MEDIUM CONTACT AREA, ROUGHING/FINISHING; LESS BURN; COOL CUTTING.
VSP	QUANTUM (GREEN) AND NORTON SG (BLUE): POROUS BOND; HIGH STOCK REMOVAL; MEDIUM/WIDE CONTACT; COOL CUTTING; LESS BURN THAN VS; HIGH CHIP CLEARANCE.
VBE	32A (PURPLE), 38A (WHITE) AND 57A (BROWN). GENERAL PURPOSE; NARROW/MEDIUM CONTACT AREA; VERSATILE; ECONOMICAL.
VBEP	32A (PURPLE), 38A (WHITE). POROUS BOND; MEDIUM/WIDE CONTACT AREA; COOL CUTTING; LESS BURN THAN VBE; HIGH CHIP CLEARANCE; HIGH STOCK REMOVAL.
V	38A (ORANGE): FOR FINE GRIT, FORM/CORNER HOLDING APPLICATIONS; NARROW CONTACT AREA.
VK	37C (BLACK) AND 39C (GREEN): DESIGNED ESPECIALLY FOR SILICON CARBIDE ABRASIVES; MEDIUM TO NARROW CONTACT AREA.
VCP	32A (PURPLE) AND 23A (BLUE/GREY): INDUCED-PORE, WIDE CONTACT AREA, SURFACE/CREEPTED GRINDING APPLICATION.
VP2	3SGR (RUBY), 48A (RUBY), 25A (PINK) AND 38A (WHITE): UNIQUE, CONTROLLED-POROSITY (NORPOR) BOND FOR HEAT-SENSITIVE APPLICATIONS.
VS3	QUANTUM (WHITE) AND NORTON SG (WHITE): PATENTED TECHNOLOGY PRODUCES A STRONG, EXCEPTIONALLY COOL-CUTTING BOND WITH UNPRECEDENTED FORM HOLDING; VERSATILE, FOR ALL AREAS OF CONTACT.



CGW SURFACE GRINDING WHEELS

SURFACE GRINDING IS THE MOST COMMON OF THE GRINDING OPERATIONS. CAN BE USED FOR HEAVY STOCK REMOVAL TO A VERY PRECISE FINISH AND SIZE REQUIREMENTS.

- MATCHING THE RIGHT WHEEL WITH THE APPLICATION IS VERY IMPORTANT TO ACHIEVE THE NEEDS OF THE GRINDER
- SURFACE GRINDING IS DONE ON BOTH PLANER AND ROTARY-TYPE MACHINES, USING EITHER VERTICAL AND HORIZONTAL SPINDLE DESIGN



MOST POPULAR CGW ABRASIVES PRECISION GRINDING VITRIFIED WHEELS

SPEC	SIZE	TYPE	PART NUMBER
AS346H	7X1/2X1-1/4	TY1	CGW34208
AS346J	7X1/2X1-1/4	TY1	CGW34209
AS346K	8X1/2/1-1/4	TY1	CGW34214
AS346H	12X1X3	TY1	CGW34219
AS346J	12X1X3	TY1	CGW34220
AZ46I	7X1/2X1-1/4	TY1	CGW34319
AZ60I	7X1/2X1-1/4	TY1	CGW34324
AZ46J	8X3/4X1-1/4	TY5	CGW34360
46J	8X1/2X1-1/4	TY1	CGW34673

OTHER SIZES AND GRADES ARE ALSO AVAILABLE

CGW ABRASIVES PRECISION GRINDING VITRIFIED WHEELS

SPEC	TYPE	APPLICATION	GRAIN	GRADE	STRUCTURE
AS3	SURFACE GRINDING	HEAVY REMOVAL, CARBON STEEL, HARDNESS > 58RC	CERAMIC ALUMINUM	H, I, J, K	8 OR 12
AZ	SURFACE GRINDING	GENERAL PURPOSE, CARBON STEEL HARDNESS UNDER < 58RC	PREMIUM BLUE ALUMINUM OXIDE	H, I, J, K	8
WA	SURFACE GRINDING	LOW STOCK REMOVAL, CARBON STEEL, GENERAL PURPOSE	WHITE ALUMINUM OXIDE	H, I, J, K	8 OR 12
AZ	BENCH & PEDESTAL	SUPERIOR SHARPENING, CARBON TOOL STEEL, HARD & SOFT STEEL	PREMIUM BLUE ALUMINUM OXIDE	K, L, M	8
A	BENCH & PEDESTAL	GENERAL PURPOSE, CARBON STEEL	BROWN ALUMINUM OXIDE	M, N, O, Q	8
GC	BENCH & PEDESTAL	NON FERROUS MATERIALS - CARBIDE TOOL SHARPENING FOR TUNGSTEN INSERTS AND LATHE TOOLING	GREEN SILICON CARBIDE	I, J, K, L	8
94AB	CENTERLESS/CYLINDRICAL	HEAVY REMOVAL, CARBON TOOL STEEL, HARDNESS > 58RC	SHARP-BLUE ALUMINUM OXIDE	J, K, L, M, N, O	8
PASP	CENTERLESS/CYLINDRICAL	GENERAL PURPOSE, HARDNESS UNDER < 58RC	PREMIUM PINK ALUMINUM OXIDE	J, K, L, M, N, O	8
WAG	CENTERLESS/CYLINDRICAL	THIN WALL & SMALL DIAMETER WORK PIECES	WHITE ALUMINUM OXIDE WITH SPECIAL BOND	H, J, K, L, M, N, O	8

NOTE: ALL SPECS ABOVE AVAILABLE IN GRIT RANGES: 46, 60, 80, 100, 120

DURABILITY ←



→ **SHARPNESS**

Softer Grades: Used in applications (Surface Grinding) with higher area of wheel contact.
Harder Grades: Used in applications (Cylindrical/Centerless) with low area of wheel contact.

GRADE	
SOFT:	D, E, F, G, H
MEDIUM:	I, J, K, L
HARD:	M, N, O, P, Q

DENSE ← → **OPEN/POROUS**
3 4 5 6 7 8 9 10 11 12

SAFETY - BENCH GRINDING WHEEL DO'S AND DON'TS

BENCH GRINDERS AND BENCH GRINDING WHEELS HAVE BEEN IN SERVICE FOR OVER 100 YEARS AND, WHEN USED CORRECTLY, THEY ARE A SAFE AND EFFECTIVE TOOL. THE CAUSES OF MOST ACCIDENTS WITH THESE PRODUCTS HAVE BEEN RELATED TO MISUSE AND ABUSE.


AN IMPORTANT WAY OF AVOIDING WHEEL BREAKAGE AND INJURY IS TO FOLLOW THE ATTACHED DO'S AND DON'TS FOR BENCH GRINDING WHEELS.

DO'S

- Do always handle and store grinding wheels in a careful manner. Most bench grinding wheels are vitrified/glass bonded products and are very strong, but brittle.
- Do visually check all wheels for cracks or damage before use. In addition to the visual inspection, "Ring Test" all wheels before mounting on the bench grinder.
- Do check machine speed against established safe operating speed marked on the wheel.
- Do use mounting blotters as supplied by the wheel manufacturer.
- Do inspect mounting flanges for equal size, relief around the wheel's hole, and the correct diameter. Flange diameter must be equal to or greater than one-third the wheel's diameter (e.g. 6 inch wheel, 2 inch flange).
- Do use flanges that are clean, flat, and smooth.
- Do make sure the bench grinder has the proper wheel guard. Bench grinder guards should have side guards that cover the spindle, end nut, and flanges. It must cover 75% of the wheel's diameter.
- Do make sure your bench grinder has an adjustable work rest that is kept adjusted to 1/8 inch or less from the wheel's grinding face.
- Do make sure your bench grinder has an adjustable tongue guard/spark arrestor and set it to 1/4 inch or less from the wheel's grinding face.
- Do allow newly mounted wheels to run at operating speed for one minute before grinding.
- Do not stand in front of or in line with the rotating grinding wheels during this test because, if damaged, the wheel most likely will break during this test.
- Do keep your work area clean and free of anything that could accidentally strike or make contact with the grinding wheel.
- Do turn off coolant (when used) before stopping the grinding wheel to avoid creating an out of balance condition on the wheel.
- Do wear proper personal protection such as eye and face protection, apron, gloves, safety shoes, etc.
- Do maintain your tools as if your life depends on it.
- Do grind on the wheel's face (outer diameter) only. Side grinding is NOT allowed.
- Do keep your grinding wheel face open and free of metal build-up. Dress wheel to remove foreign metals and to open the wheel face with new sharp abrasive grains.
- Do make sure your bench and pedestal grinder is permanently mounted. It should not move or fall over during use.
- Do review all applicable MSDS (Material Safety Data Sheets) before using this product.
- When required, control dust.
- Do comply with ANSI B7.1, OSHA and all safety materials provided with the wheels and the grinders.
- Do visit the abrasive manufacturer's website for additional safety information.
- Do contact your abrasive manufacturer if you have any safety questions.

DON'TS

- Don't use wheels that have been dropped or otherwise damaged. If the wheel does not pass a "Ring Test", do not use it.
- Don't force a wheel onto the machine or alter the size of the wheel's mounting hole. If the wheel won't fit the machine, get one that will fit properly.
- Don't exceed the speed marked on the grinding wheel.
- Don't use mounting flanges on which the bearing surfaces are not clean, flat, and smooth.
- Don't tighten the mounting nut excessively. Tighten the nut just enough to prevent wheel slippage.
- Don't start the machine until the safety guard is properly and securely in place.
- Don't adjust the work rest or tongue guard/spark arrestor while the grinding wheel is rotating.
- Don't stand in front of or in line with a grinding wheel whenever a bench grinding machine is started.
- Don't grind on the side of the wheel.
- Don't jam the work into the wheel.
- Don't grind material for which the wheel is not designed. Do not grind/sand wood, plastic, or any other non-metallic materials.
- Don't use this wheel if you have not reviewed all of the safety materials and have not been properly trained in the use of the tool and wheel.




NORTON BLUEFIRE ZA GRINDING WHEEL

A BLEND OF THE MOST ADVANCED ZIRCONIA ALUMINA AND PREMIUM ALUMINUM OXIDE ABRASIVES DELIVERS 2 TO 3 TIMES THE LIFE OF ALUMINUM OXIDE WHEELS.

- USEFUL ACROSS A RANGE OF APPLICATIONS, THIS VERSATILE GRINDING WHEEL FOR YOUR RIGHT ANGLE GRINDER IS IDEAL FOR WORKING WITH HARD AND SOFT STEEL ALLOYS, INCLUDING THE 400-SERIES AND HARD CARBON STEEL MIXES.

DIAMETER	ARBOR HOLE	GRAIN	THICKNESS	TYPE	PART NUMBER	QUANTITY
4-1/2"	7/8"	ZIRCONIA	1/4"	TY27	NOR43192	10
5"	5/8"-11	ZIRCONIA	1/4"	TY27	NOR43217	10




NORTON QUANTUM3 SG CA GRINDING WHEEL

MAXIMIZE YOUR PRODUCTION POTENTIAL ON STOCK REMOVAL PROJECTS WHILE MINIMIZING COST WITH THE QUANTUM3 SG CA TYPE 27 GRINDING WHEEL.

- THE USER-FRIENDLY DESIGN MEANS SIMPLE CUTTING ACTION WITHOUT GRABBING, DIGGING OR CATCHING, LEADING TO A HIGH-QUALITY FINISH EVERY TIME.

DIAMETER	ARBOR HOLE	GRAIN	THICKNESS	TYPE	PART NUMBER	QUANTITY
5"	5/8"-11	CERAMIC	1/4"	TY27	NOR70795	10
7"	5/8"-11	CERAMIC	1/4"	TY27	NOR70799	10




NORTON METAL A AO GRINDING WHEEL

WITH A QUALITY ALUMINUM OXIDE ABRASIVE AND A HIGH-PERFORMANCE BOND, THIS WHEEL PROVIDES A FAST CUT RATE AND AN EXCELLENT WHEEL LIFE, INCREASING PRODUCTIVITY.

- DESIGNED TO MAKES QUICK WORK OF OFFHAND STOCK REMOVAL
- HIGH PERFORMANCE BOND DESIGNED FOR EXTREMELY FAST CUT WHILE RETAINING EXCELLENT WHEEL LIFE

DIAMETER	ARBOR HOLE	GRAIN	THICKNESS	TYPE	PART NUMBER	QUANTITY
4-1/2"	5/8"-11	ALUMINUM OXIDE	1/4"	TY27	NOR43605	10
5"	5/8"-11	ALUMINUM OXIDE	1/4"	TY27	NOR43613	10



NORTON GEMINI FLEXIBLE A AO GRINDING WHEEL

DIAMETER	ARBOR HOLE	GRAIN	GRIT	THICKNESS	TYPE	PART NUMBER	QUANTITY
2"	3/8"	ALUMINUM OXIDE	60	1/8"	TY27	NOR35632	10

CHOOSE THE RIGHT DISC FOR THE JOB

	DEPRESSED CENTER GRINDING WHEELS	CUT & GRIND WHEELS	CUT-OFF WHEELS	FLAP DISCS	FIBRE DISCS
CUTTING		●	●		
NOTCHING		●			
GOUGING	●	●			
FILLET WELD REMOVAL	●	●			
BEVELING	●	●		●	●
FLAME CUT SMOOTHING	●	●		●	●
SCALE REMOVAL	●	●		●	●
WELD REMOVAL	●	●		●	●
CONTOURED AREAS				●	●

KEY: ● RECOMMENDED APPLICATION • ADDITIONAL APPLICATION



UNITED ABRASIVES A24R GRINDING WHEEL

HIGHEST QUALITY VIRGIN ALUMINUM OXIDE GRAIN ASSURES CONSISTENT HIGH STOCK REMOVAL FOR TOUGH APPLICATIONS. FOR GENERAL PURPOSE GRINDING.

- ALL SIZES ARE MADE WITH UNIFORM GRAIN THROUGHOUT, NO FILLER GRAIN USED IN THE BACKING
- ALL WHEELS ARE INTERNALLY REINFORCED WITH THE HIGHEST QUALITY FIBERGLASS FOR MAXIMUM SAFETY

DIAMETER	ARBOR HOLE	MAX RPM	THICKNESS	TYPE	PART NUMBER	QUANTITY
4"	5/8" - NO HUB	13500	1/4"	TY27	UNI20013	25
4-1/2"	5/8"-11	13300	1/4"	TY27	UNI20163	10
5"	5/8"-11	12200	1/4"	TY27	UNI20173	10
6"	5/8"-11	10200	1/4"	TY27	UNI20076	10
7"	5/8"-11	8500	1/4"	TY27	UNI20086	10
9"	5/8"-11	6600	1/4"	TY27	UNI20096	10
4-1/2"	7/8" - NO HUB	13300	1/4"	TY27	UNI20063	25
5"	7/8" - NO HUB	12200	1/4"	TY27	UNI20073	25
6"	7/8" - NO HUB	10200	1/4"	TY27	UNI20079	25
7"	7/8" - NO HUB	8500	1/4"	TY27	UNI20080	25
9"	7/8" - NO HUB	6600	1/4"	TY27	UNI20090	25
4-1/2"	5/8"-11	13300	1/4"	TY28	UNI21026	10
7"	5/8"-11	8500	1/4"	TY28	UNI21005	10
9"	5/8"-11	6600	1/4"	TY28	UNI21015	10
4-1/2"	7/8"	13300	1/4"	TY28	UNI21021	25
7"	7/8"	8500	1/4"	TY28	UNI21000	25
9"	7/8"	6600	1/4"	TY28	UNI21010	25



3M CUBITRON 3 DEPRESSED CENTER GRINDING WHEEL

FOR HEAVY WELD REMOVAL AND OTHER HEAVY-DUTY GRINDING APPLICATIONS ON MOST MATERIALS WHILE BEING FORMULATED FOR USE ON STAINLESS STEEL, MILD STEEL, AND AEROSPACE ALLOYS.

- DESIGNED TO LAST LONGER THAN LEADING COMPETITORS
- REDUCES THE AMOUNT OF TIME AND PRESSURE REQUIRED TO GET THE JOB DONE

DIAMETER	ARBOR HOLE	MAX RPM	THICKNESS	TYPE	PART NUMBER	QUANTITY
4.5 IN	7/8"	13300 RPM	1/4"	TY27	3M90003	20
5 IN	7/8"	12250 RPM	1/4"	TY27	3M90007	20
6 IN	7/8"	10200 RPM	1/4"	TY27	3M90005	20
7 IN	7/8"	8500 RPM	1/4"	TY27	3M90008	20
9 IN	7/8"	6650 RPM	1/4"	TY27	3M90010	20
QUICK CHANGE ATTACHMENT						
4.5 IN	5/8"-11	13300 RPM	1/4"	TY27	3M90002	10
5 IN	5/8"-11	12250 RPM	1/4"	TY27	3M90004	10
6 IN	5/8"-11	10200 RPM	1/4"	TY27	3M90006	10
7 IN	5/8"-11	8500 RPM	1/4"	TY27	3M90009	10
9 IN	5/8"-11	6650 RPM	1/4"	TY27	3M90011	10













NORTON GEMINI R766 (ALUMINUM OXIDE)

FOR RELIABLE ALL-PURPOSE ABRASION, USE THIS VERSATILE, GENERAL-PURPOSE ALUMINUM OXIDE GRAIN WHICH PROVIDES AFFORDABLE VERSATILITY AND MAKES IT A GOOD STARTING CHOICE

- VERSATILE, GENERAL-PURPOSE ALUMINUM OXIDE GRAIN; GOOD CHOICE
- STRONG, X-WEIGHT, 2-PLY COTTON BACKING CONSTRUCTION FOR EXTENDED DURABILITY AND REDUCED EDGE WEAR
- X-WEIGHT DURABLE BUT SMOOTH, COTTON BACKING FOR ROUGHING AND BLENDING

GRIT	1 INCH		1-1/2 INCH		2 INCH		3 INCH	
								
	TYPE TS	TYPE TR	TYPE TS	TYPE TR	TYPE TS	TYPE TR	TYPE TS	TYPE TR
24	-	-	-	-	NOR99637	NOR99705	NOR99649	NOR99717
36	NOR99614	NOR99682	NOR99626	NOR99694	NOR99638	NOR99706	NOR99650	NOR99718
40	-	-	NOR99627	NOR99695	NOR99639	NOR99707	NOR99651	NOR99719
50	NOR99616	-	NOR99628	NOR99696	NOR99640	NOR99708	NOR99652	NOR99720
60	NOR99617	NOR99685	NOR99629	NOR99697	NOR99641	NOR99709	NOR99653	NOR99721
80	NOR99618	NOR99686	NOR99630	NOR99698	NOR99642	NOR99710	NOR99654	NOR99722
100	NOR99619	NOR99687	NOR99631	NOR99699	NOR99643	NOR99711	NOR99655	NOR99723
120	NOR99620	NOR99688	NOR99632	NOR99700	NOR99644	NOR99712	NOR99656	NOR99724
150	-	-	-	-	NOR99645	NOR99713	NOR99657	NOR99725
180	NOR99622	NOR99690	NOR99634	NOR99702	NOR99646	NOR99714	NOR99658	NOR99726
240	NOR99623	NOR99691	NOR99635	NOR99703	NOR99647	NOR99715	NOR99659	NOR99727
320	-	-	-	-	NOR99648	NOR99716	NOR99660	NOR99728
QUANTITY	100		100		100		50	

A/O APPLICATION	GRIT
CLEANING / FINISHING:	60-120
RUST REMOVAL:	50-100
DEBURRING / DEFLASHING:	40-80
WELD BLENDING:	36-60
EDGE CHAMFERING:	30-50
STOCK REMOVAL:	16-36

	A/O	ZIRCONIA	CERAMIC
PRODUCT APPLICATIONS			
MRO	●		
GRIND	●	●	●
HEAT-SENSITIVE		●	●
DEBURR	●	●	●
BLEND	●		
FINISH			
MATERIALS			
FERROUS	●		
NON-FERROUS			
ALUMINUM		●	
HIGH NICKEL/CHROME/ALLOYS			●
STAINLESS STEEL		●	●
TITANIUM			
COMPOSITES	●	●	



3M ROLOC DISC 361F (ALUMINUM OXIDE)

PROVIDES DURABILITY AND HIGH PERFORMANCE FOR GRINDING, BLENDING, DEBURRING, AND FINISHING ON ALL METALS.

- DURABLE ALUMINUM OXIDE ABRASIVE GRAINS CUT FAST AND PERFORM WELL ON MANY SURFACES
- HEAT-RESISTANT RESIN COATING BONDS ABRASIVE TO BACKING FOR DURABILITY UNDER PRESSURE
- DISC CAN BE USED IN WET OR DRY APPLICATIONS

ORDER MULTIPLES OF 50 EA

GRIT	1-1/2 INCH		2 INCH		3 INCH	
	TYPE TS	TYPE TR	TYPE TS	TYPE TR	TYPE TS	TYPE TR
36	3M49932	3M22396	3M49936	3M22398	3M51033	3M22393
60	3M49933	3M22397	3M49937	3M22400	3M49940	3M22395
80	3M49934	3M22407	3M49938	3M22401	3M49941	3M22404
P100	3M51039	3M22408	3M51034	3M22402	3M49942	3M22405
P120	3M51038	3M22409	3M49939	3M22403	3M49943	3M22406
QUANTITY	50		50		50	

BUILT FOR STOCK REMOVAL, DEBURRING, GRINDING, AND FINISHING.



ARC ALUMINUM OXIDE QUICK CHANGE DISCS

VERSATILE GRAIN FOR CUTTING, STOCK REMOVAL, DEBURRING, AND BLENDING.

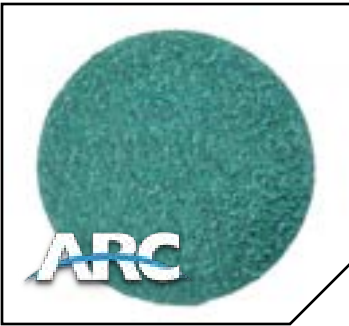
- GENERAL PURPOSE USE ON ALL METALS
- QUICK CHANGE BUTTON FOR MINIMAL DOWN TIME
- MADE IN THE USA WITH GLOBAL COMPONENTS

GRIT	1 INCH		1-1/2 INCH		2 INCH		3 INCH	
	TYPE S	TYPE R	TYPE S	TYPE R	TYPE S	TYPE R	TYPE S	TYPE R
24	ARC31413	ARC31613	ARC31437	ARC31637	ARC31449	ARC31649	ARC31461	ARC31661
36	ARC31414	ARC31614	ARC31438	ARC31638	ARC31450	ARC31650	ARC31462	ARC31662
40	ARC31415	ARC31615	ARC31439	ARC31639	ARC31451	ARC31651	ARC31463	ARC31663
50	ARC31416	ARC31616	ARC31440	ARC31640	ARC31452	ARC31652	ARC31464	ARC31664
60	ARC31417	ARC31617	ARC31441	ARC31641	ARC31453	ARC31653	ARC31465	ARC31665
80	ARC31418	ARC31618	ARC31442	ARC31642	ARC31454	ARC31654	ARC31466	ARC31666
100	ARC31419	ARC31619	ARC31443	ARC31643	ARC31455	ARC31655	ARC31467	ARC31667
120	ARC31420	ARC31620	ARC31444	ARC31644	ARC31456	ARC31656	ARC31468	ARC31668
150	ARC31421	ARC31621	ARC31445	ARC31645	ARC31457	ARC31657	ARC31469	ARC31669
180	ARC31422	ARC31622	ARC31446	ARC31646	ARC31458	ARC31658	ARC31470	ARC31670
240	ARC31424	ARC31624	ARC31448	ARC31648	ARC31460	ARC31660	ARC31472	ARC31672
320	ARC31425	ARC31625	ARC31449	ARC31649	ARC31461	ARC31661	ARC31473	ARC31673
QUANTITY	100		100		100		50	

COARSE GRIT FOR WELD BLENDING, STOCK REMOVAL, AND DEBURRING STAINLESS, SOFT METALS LIKE ALUMINUM, CARBON STEELS, AND TITANIUM.

MEDIUM GRIT FOR DEBURRING, CLEANING, AND DETAILING STAINLESS, SOFT METALS LIKE ALUMINUM, CARBON STEELS, AND TITANIUM.





FINE GRIT FOR CLEANING, DETAILING, AND FINISHING STAINLESS STEEL AND OTHER STEELS, AND SOFT METALS LIKE ALUMINUM.



ARC ZIRCONIA ALUMINA QUICK CHANGE DISCS

SELF-SHARPENING GRAINS REDUCE HEAT WHILE GRINDING.

- ADDITIONAL GRINDING AID TO REDUCE HEAT
- CONSISTENT STOCK REMOVAL RATE
- QUICK CHANGE BUTTON FOR MINIMAL DOWN TIME

GRIT	2 INCH		3 INCH	
				
	TS	TR	TS	TR
24	ARC319139	ARC319131	-	ARC319141
36	ARC319032	ARC319132	ARC319042	ARC319142
40	ARC319033	ARC319133	ARC319043	ARC319143
50	ARC319034	ARC319134	ARC319044	ARC319144
60	ARC319035	ARC319135	ARC319045	ARC319145
80	ARC319036	ARC319136	ARC319046	ARC319146
100	ARC319037	ARC319137	ARC319047	ARC319147
120	ARC319038	ARC319138	ARC319048	ARC319148
QUANTITY	100		50	









NORTON BLUEFIRE R860/R884 (ZIRCONIA ALUMINA)

PREMIUM, VERSATILE, SELF-SHARPENING ZIRCONIA PLUS GRAIN PROVIDES AGGRESSIVE CUT AND UP TO 30% LONGER LIFE.

- SEMI-OPEN COAT MINIMIZES LOADING ON SOFT METALS
- WATERPROOF BACKING STANDS UP TO DEMANDING APPLICATIONS
- COARSE GRIT EXCELS AT STOCK REMOVAL, WELD BLENDING, AND DEBURRING

ORDER MULTIPLES OF 25 EA

GRIT	1-1/2"		2"		3"	
						
	TYPE TS	TYPE TR	TYPE TS	TYPE TR	TYPE TS	TYPE TR
24	-	-	NOR38638	NOR38672	NOR62331	NOR38675
36	NOR38624	NOR21041	NOR38637	NOR38671	NOR62327	NOR38674
40	-	-	NOR62323	-	NOR67073	-
50	NOR62309	-	NOR62319	NOR38670	NOR38662	NOR38673
60	NOR38621	NOR21043	NOR62321	NOR21048	NOR38661	NOR21053
80	NOR38620	NOR21044	NOR62323	NOR21049	NOR38660	NOR21054
120	NOR38621	-	NOR62321	-	NOR38661	-
QUANTITY	100		25		25	



MERIT ZIRC PLUS QUICK CHANGE DISCS - TS (TYPE 2)

IDEAL PRODUCT FOR DEMANDING GRINDING APPLICATIONS.

DIAMETER	GRIT	PART NUMBER	QUANTITY
2"	36	ME67065	100
2"	50	ME65583	100
2"	60	ME67068	100
2"	80	ME67069	100
2"	120	ME67071	100







3M DISC 777F QUICK CHANGE DISCS

A BLEND OF 3M-ENGINEERED HIGH-PERFORMING CERAMIC ABRASIVE GRAIN AND ALUMINUM OXIDE MINERAL SELF-SHARPENS AND OFFERS IMPROVED DURABILITY AND CUT-RATE OVER ALUMINUM OXIDE.

- GRINDING AID REDUCES GRINDING TEMPERATURES FOR PROCESSES INVOLVING HEAT-SENSITIVE ALLOYS
- HEAT-RESISTANT RESIN COATING BONDS ABRASIVE TO BACKING FOR DURABILITY UNDER PRESSURE
- POLYESTER BACKING IS EXTREMELY TOUGH TO SUPPORT MEDIUM-PRESSURE APPLICATIONS

ORDER MULTIPLES OF 50 EA

GRIT	2 INCH		3 INCH	
	 TYPE TSM	 TYPE TR	 TYPE TSM	 TYPE TR
36	3M49949	3M76629	3M50257	3M54241
60	3M50253	3M76630	-	3M54249
80	3M50254	3M76433	-	3M54257
100	3M50255	3M14661	-	3M54265
P120	3M50256	3M54256	-	3M54257
QUANTITY	50		50	









3M CUBITRON II DURABLE EDGE DISC 947A

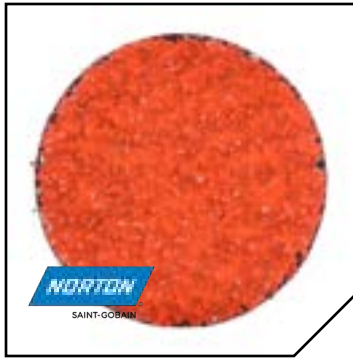
THE TRIANGULAR SHAPED CERAMIC GRAIN WEAR MORE EVENLY DURING USE, THEY FRACTURE AT ANGLES THAT CONTINUALLY FORM SHARP POINTS TO KEEP SLICING THROUGH THE SUBSTRATE WITH EASE.

- 3M PRECISION-SHAPED GRAIN DELIVERS SHARP, COOL, CONSISTENT CUTTING ACTION
- EVENLY-SPACED GRAIN FEATURES GAPS THAT HELP DEBRIS ESCAPE, BOLSTERING ABILITY TO RESIST LOADING
- POLY-COTTON BACKING OFFERS GREAT TENSILE STRENGTH, HELPING ENHANCE OVERALL ABRASIVE DURABILITY

ORDER MULTIPLES OF 50 EA

GRIT	1-1/2 INCH		2 INCH		3 INCH	
	 TYPE TSM	 TYPE TR	 TYPE TSM	 TYPE TR	 TYPE TSM	 TYPE TR
40+	3M54243	3M54239	3M54244	3M54240	3M54245	3M54241
60+	3M54251	3M54247	3M54252	3M54248	3M54253	3M54249
80+	3M54259	3M54255	3M54260	3M54256	3M54261	3M54257
120+	3M54267	3M54263	3M54268	3M54264	3M54269	3M54265
QUANTITY	50		50		50	

PRODUCT	MINERAL TYPE	METAL TYPE	PERFORMANCE	GRINDING	LIGHT GRINDING	BLENDING	DEBURRING
947A	PRECISION-SHAPED CERAMIC	STAINLESS STEEL AND ALUMINUM	BEST	•	•	•	•
361F	ALUMINUM OXIDE	ALL METALS	GOOD	•	•	•	•









NORTON BLAZE R980P (PREMIUM CERAMIC ALUMINA)

ITS SELF-LUBRICATING 100% CERAMIC GRAIN REDUCES HEAT AND LOADING ON MATERIALS THAT PROVE DIFFICULT TO GRIND.

- ADVANCED SELF-LUBRICATING GRAIN TREATMENT FOR REDUCED HEAT AND LOADING
- IMPROVED RESIN BOND SYSTEM MAXIMIZES GRAIN RETENTION FOR LONGER PRODUCT LIFE
- COARSE GRIT PROVIDES THE FASTEST STOCK REMOVAL, WELD BLENDING, AND DEBURRING RATES

USED FOR FAST STOCK REMOVAL, DEBURRING AND WELD BLENDING.



GRIT	1-1/2"		2"		3"	
						
	TS	TR	TS	TR	TS	TR
36	NOR62307	NOR62308	NOR62317	NOR62318	NOR62327	NOR62328
50	NOR62309	NOR62310	NOR62319	NOR62320	NOR62329	NOR62330
60	NOR62311	NOR62312	NOR62321	NOR62322	NOR62331	NOR62332
80	NOR62313	NOR62314	NOR62323	NOR62324	NOR62333	NOR62334
100	-	-	NOR43382	NOR43383	NOR43389	NOR43390
120	NOR43379	NOR43380	NOR43384	NOR43386	NOR43391	NOR43392
QUANTITY	100		25		25	



ARC CERAMIC QUICK CHANGE DISCS

SELF-SHARPENING GRAINS FOR CONSISTENT AND EXTENDED STOCK REMOVAL

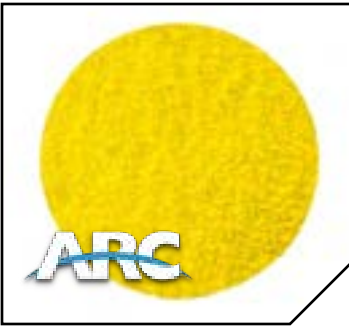
- FOR HIGH PRESSURE APPLICATIONS
- SHORTER CYCLE TIMES AND EQUIPMENT CHANGES
- QUICK CHANGE BUTTON FOR MINIMAL DOWN TIME

GRIT	2"	
		
	TS	TR
36	ARC31450-03	ARC31650-03
40	ARC31451-03	ARC31651-03
50	ARC31452-03	ARC31652-03
60	ARC31453-03	ARC31653-03
80	ARC31454-03	ARC31654-03
100	ARC31455-03	ARC31655-03
120	ARC31456-03	ARC31656-03
QUANTITY	100	

SELECTION CHART FOR NON-WOVEN AND COATED ABRASIVES

■ COATED ■ NON-WOVEN

GRADE GRIT	VERY COARSE				COARSE		MEDIUM		FINE				VERY FINE				EXTRA FINE			SUPER FINE			ULTRA FINE					
	16	24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600	800	1000	1200	1500	1800	2000		
GRINDING																												
BLENDING																												
FINISHING																												
POLISHING																												











ARC PREDATOR CERAMIC HYBRID QUICK CHANGE DISCS



SELF-SHARPENING GRAINS FOR CONSISTENT AND EXTENDED STOCK REMOVAL

- FOR MODERATE TO HIGH PRESSURE GRINDING APPLICATIONS
- TWO GRINDING AIDS FOR REDUCING HEAT AND EXTENDING LIFE
- LONG-LASTING, CONSISTENT CUT RATE

MADE IN THE USA WITH GLOBAL COMPONENTS

GRIT	1 INCH		1-1/2 INCH		2 INCH		3 INCH	
	 TYS	 TYR	 TYS	 TYR	 TYS	 TYR	 TYS	 TYR
24	-	-	ARC71-31437	ARC71-31637	ARC71-31449	ARC71-31649	ARC71-31461	ARC71-31661
36	ARC71-31414	ARC71-31614	ARC71-31438	ARC71-31638	ARC71-31450	ARC71-31650	ARC71-31462	ARC71-31662
40	ARC71-31415	ARC71-31615	ARC71-31439	ARC71-31639	ARC71-31451	ARC71-31651	ARC71-31463	ARC71-31663
50	ARC71-31416	ARC71-31616	ARC71-31440	ARC71-31640	ARC71-31452	ARC71-31652	ARC71-31464	ARC71-31664
60	ARC71-31417	ARC71-31617	ARC71-31441	ARC71-31641	ARC71-31453	ARC71-31653	ARC71-31465	ARC71-31665
80	ARC71-31418	ARC71-31618	ARC71-31442	ARC71-31642	ARC71-31454	ARC71-31654	ARC71-31466	ARC71-31666
100	ARC71-31419	ARC71-31619	ARC71-31443	ARC71-31643	ARC71-31455	ARC71-31655	ARC71-31467	ARC71-31667
120	ARC71-31420	ARC71-31620	ARC71-31444	ARC71-31644	ARC71-31456	ARC71-31656	ARC71-31468	ARC71-31668
QUANTITY	100		100		100		50	

ADD AN "-1" AT THE END OF THE P/N FOR FLEX BACKING

PREDATOR CERAMIC TYS QUICK-LOK DISC - FLEX BACKING		
	GRIT	
		2" TYS
	36	ARC71-31450-1
	60	ARC71-31453-1
	80	ARC71-31454-1
120	ARC71-31456-1	
QUANTITY	100	

NOT SANDING FLAT SURFACES?
 FLEX BACK DISCS ARE MADE WITH A FLEXIBLE CLOTH BACKING FOR SANDING APPLICATIONS WITH CONTOUR SURFACES.

*ALSO PURCHASE THE FLEXIBLE HPS2 HOLDER PAD.











ARC AMBUSH CERAMIC QUICK CHANGE DISCS

MINIMIZE DOWNTIME AND MAXIMIZE PRODUCTIVITY BY COMBINING HYPER-SHARPENED GRAINS

- HIGHER METAL REMOVAL RATE AND FASTER CUTTING SPEEDS
- LOWER GRINDING TEMPERATURE AND LESS FRICTION
- SHORTER CYCLE TIMES AND FEWER EQUIPMENT CHANGES

ENHANCED CUT RATIOS, LONGER LIFE, AND COOLER OPERATION.

GRIT	1 INCH		1-1/2 INCH		2 INCH		3 INCH	
	 TYS	 TYR	 TYS	 TYR	 TYS	 TYR	 TYS	 TYR
36	-	-	ARC75-31438	ARC75-31638	ARC75-31450	ARC75-31650	ARC75-31462	ARC75-31662
50	-	-	ARC75-31440	ARC75-31640	ARC75-31452	ARC75-31652	ARC75-31464	ARC75-31664
60	-	-	ARC75-31441	ARC75-31641	ARC75-31453	ARC75-31653	ARC75-31465	ARC75-31665
80	ARC75-31418	ARC75-31618	ARC75-31442	ARC75-31642	ARC75-31454	ARC75-31654	ARC75-31466	ARC75-31666
120	ARC75-31420	ARC75-31620	ARC75-31444	ARC75-31644	ARC75-31456	ARC75-31656	ARC75-31468	ARC75-31668
QUANTITY	-		-		-		-	



QUICK-CHANGE DISC HOLDER PADS

HARD FACE STYLE HAS MOLDED PHENOLIC FACE THAT PROVIDES IMPROVED AND SNAG-FREE GRINDING FOR YOUR APPLICATION.

- QUICK AND EASY ATTACHMENT TO REDUCE SET-UP TIMES
- MEDIUM FOR GENERAL PURPOSE WORK
- FIRM FOR HEAVY STOCK REMOVAL

ORDER IN QUANTITIES OF 1



TYPE 2 (TS)

TYPE 3 (TR)

DIAMETER	MEDIUM	FIRM	MEDIUM	FIRM
3/4"	HPM34	-	-	-
1"	HPM1	-	HPM1TY3	-
1-1/2"	HPM112	HPF112	HPM112TY3	-
2"	HPM2	HPF2	HPM2TY3	-
3"	HPM3	HPF3	HPM3TY3	-

USE SOFTER PADS FOR CONTOUR WORK. AVAILABLE UPON REQUEST.

QUICK CHANGE TYPE 2 TS SYSTEM



QUICK CHANGE TYPE 3 TR SYSTEM



QUICK CHANGE TS SYSTEM REMAINS THE MOST POPULAR STYLE FOR SAFETY, PRODUCTIVITY AND FAST DISC CHANGES. CHANGE DISCS BY SIMPLY TWISTING TO UNLOCK THE DISC FROM THE HOLDER PAD.

QUICK CHANGE TR SYSTEM FEATURES A COMMON NYLON THREADED MALE (SCREW TYPE) HUB. EASILY MOUNTS TO TR OR ROLOC™ TYPE HOLDER PADS WITH A HALF TURN. STAYS SECURELY IN PLACE FOR THE LIFE OF THE DISC.

GRAIN HARDNESS AND LIFE CHART

GRIT RANGE													
24	36	40	50	60	80	100	120	150	180	220	240	320	400
STOCK REMOVAL				SURFACE PREPARATION / CLEANING									
		DEBURRING					FINISHING (POLISHING)						



KLINGSPOR ALUMINA ZIRCONIA QUICK DISC CONNECT

MADE FOR HIGH PRESSURE, HEAVY STOCK REMOVAL ON ALL TYPES OF METAL, ESPECIALLY CARBON AND TOOL STEELS.

- AN ABRASIVE MATERIAL CONSISTING OF ALUMINA ZIRCONIA GRAIN
- MOUNTED TO A SEMI-FLEXIBLE NYLON BACKING PLATE
- SIMPLY TWIST THE QDC A QUARTER TURN AND IT IS LOCKED IN PLACE

TECH TIP: USE SLIP WAX STICK ON DISC TO PREVENT ABRASIVE MATERIAL FROM LOADING UP.

GRIT	DIAMETER			
	1"	1-1/2"	2"	3"
24	QDC124	QDC11224	QDC224	QDC324
36	QDC136	QDC11236	QDC236	QDC336
40	QDC140	QDC11240	QDC240	QDC340
50	QDC150	QDC11250	QDC250	QDC350
60	QDC160	QDC11260	QDC260	QDC360
80	QDC180	QDC11280	QDC280	QDC380
120	QDC1120	QDC112120	QDC2120	QDC3120
QUANTITY	100	100	100	50

USE ARC PREDATOR HYBRID CERAMIC HYBRID STIFF QUICK-CHANGE DISCS AS AN ALTERNATIVE SUBSTITUTION.



KLINGSPOR QUICK DISC CONNECT STEEL MANDREL, 1/4" SHANK

DISC DIAMETER	PART NUMBER
1" AND 1-1/2"	QDCS
2" AND 3"	QDCL

ORDER IN QUANTITIES OF 1



1. Utilize a unique locking system that is quick and dependable.



2. The specially designed mandrel with a 1/4" shank has a "T" lock top that fits securely into a channel on the heat resistant QDC backing plate.



3. A simple 1/4 turn locks the mandrel in place.



3M FIBRE DISC 782C

3M PRECISION SHAPED GRAIN YIELDS HIGHER CUT RATES WHILE COMPLETING MORE PARTS PER DISC THAN CONVENTIONAL DISCS. LONG-LASTING ABRASIVE HELPS REDUCE COST.

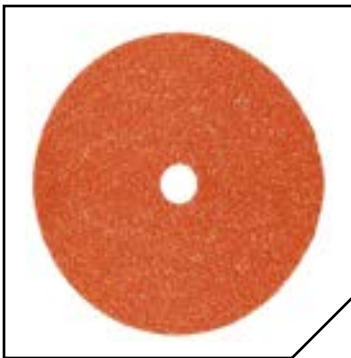
- RAPIDLY CUTS CARBON STEEL
- PREMIUM MINERAL EXCELS AT HEAVYWEIGHT APPLICATIONS
- STIFF FIBER BACKING AND STRONG RESIN BOND PROVIDE DURABILITY AND TEAR-RESISTANCE

ORDER MULTIPLES OF 25 EA

GRIT	DIAMETER	PART NUMBER
36+	4-1/2"	3M27400
	5"	3M27401
60+	4-1/2"	3M27631
	5"	3M27632
80+	4-1/2"	3M27635
	5"	3M27636

ENGINEERED FOR ULTRA-RAPID CUT ON CARBON STEEL

With its outstanding cut, durability, and ease of use, this disc offers a major step up in performance over conventional fiber discs. Advanced abrasive technology makes it an excellent choice for tough applications including weld removal, blending and finish refinement.



3M FIBRE DISC 787C

3M PRECISION SHAPED GRAIN YIELDS HIGHER CUT RATES AND COOLER CUT WHILE COMPLETING MORE PARTS PER DISC THAN CONVENTIONAL FIBRE DISCS. LONG-LASTING DISC HELPS REDUCE COST.

- RAPIDLY CUTS HARD TO GRIND METALS LIKE STAINLESS STEEL AND HIGH NICKEL ALLOYS
- GRINDING AID MINIMIZES GRINDING TEMPERATURES FOR HEAT-SENSITIVE ALLOYS
- STIFF FIBER BACKING AND STRONG RESIN BOND PROVIDE DURABILITY AND TEAR-RESISTANCE

ORDER MULTIPLES OF 25 EA

GRIT	DIAMETER	PART NUMBER
36+	4-1/2"	3M89627
	5"	3M89628
60+	4-1/2"	3M89636
	5"	3M89637
80+	4-1/2"	3M89645
	5"	3M89646
120+	4-1/2"	3M89654
	5"	3M89655

ENGINEERED FOR ULTRA-RAPID CUT ON STAINLESS AND NON-FERROUS METALS

With its outstanding cut, durability, and ease of use, this disc offers a step up in performance over conventional fiber discs. Constructed with a grinding aid, it is an excellent choice for weld removal, blending, and finish refinement on stainless steel and high nickel alloys.



3M CUBITRON II FIBRE DISC 982CX PRO

LONGEST-LASTING 3M FIBRE DISC HELPS BOOST PRODUCTIVITY AND MINIMIZE DISC CHANGES IN MANUAL AND AUTOMATED APPLICATIONS. COARSE GRIT FOR BEVELING AND GRINDING LARGE WELDS.

- 3M PRECISION-SHAPED GRAIN DELIVERS SHARP, COOL, CONSISTENT CUTTING ACTION
- TRIANGULAR CERAMIC GRAIN WEARS EVENLY, RUNS COOL AND STAYS SHARP THROUGH THE LIFE OF THE DISC
- CUTS WITH LESS PRESSURE THAN TRADITIONAL FIBRE DISCS, HELPING REDUCE THE DEMANDS ON OPERATORS

ORDER MULTIPLES OF 25 EA

GRIT	DIAMETER	PART NUMBER
36+	4-1/2"	3M83313
	5"	3M83314

PERFORMANCE, POWER AND PRODUCTIVITY OPTIMIZED

36+ grit fibre discs are ideal for beveling and grinding large welds, providing maximum stock removal and a coarse finish.



CUTRITE ALUMINUM OXIDE RESIN FIBER DISCS WITH 7/8\"

PROVIDES OVERALL ECONOMY AND GOOD PERFORMANCE IN AN ALL-PURPOSE GENERAL PURPOSE ALUMINUM OXIDE DISC.

DESIGNED TO EXCEL IN A WIDE VARIETY OF APPLICATIONS BY PROVIDING COST EFFECTIVE STOCK REMOVAL.

ORDER MULTIPLE OF 25 EA.

GRIT	DIAMETER		
	4-1/2" x 7/8	5" x 7/8	7" x 7/8
16	-	GA20150100	GA20170100
24	GA00075	GA20150200	GA20170200
36	GA00078	GA20150300	GA20170300
50	-	GA20150400	GA20170400
60	GA00684	GA20150500	GA20170500
80	GA00087	GA20150600	GA20170600
100	-	GA20150700	GA20170700
120	GA00093	GA20150800	GA20170800




CUTRITE ZIRCONIA RESIN FIBER DISCS WITH 7/8\"

ZIRCONIA DISCS ARE THE MOST COST-EFFECTIVE CHOICE WHEN GRINDING STAINLESS AND OTHER HIGH TENSILE ALLOYS.


THE GP ZIRCONIA DISC PROVIDES ULTIMATE COST EFFECTIVENESS WITH HIGHER PERFORMANCE.

ORDER MULTIPLE OF 25 EA.

GRIT	DIAMETER		
	4-1/2" x 7/8	5" x 7/8	7" x 7/8
16	-	-	-
24	-	GA20550200	-
36	GA00678	GA20550300	GA20570300
50	-	GA20550400	GA20570400
60	-	GA20550500	GA20570500
80	GA00687	GA20550600	GA20570600
100	-	-	-
120	GA20545800	GA20550800	GA20570800




RESIN FIBER BACKUP PADS			
DIAMETER	THREAD	THICKNESS	PART NUMBER
4-1/2"	BLACK AND DECKER HUB	1/4"	SA543629
4-1/2"	5/8-11 FEMALE	1/4"	SA543630
5"	5/8-11 FEMALE	1/4"	SA543632
7"	5/8-11 FEMALE	1/4"	SA543603



PHENOLIC BACKUP PADS			
DIAMETER	HOLE	THICKNESS	PART NUMBER
5"	7/8"	1/16"	BPPH5
7"	7/8"	1/16"	BPPH7

PHENOLIC PLATES PROVIDE AN ECONOMICAL SOLUTION FOR POLISHING, SANDING AND GRINDING.



DIE CAST PAD NUT

HOLDER PAD RETAINER NUT FOR DISCS WITH 5/8-11 HUB

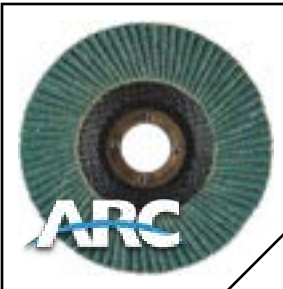
PART NUMBER SA542012



FLAP DISCS

FOR RIGHT ANGLE GRINDER APPLICATIONS RANGING FROM HEAVY STOCK REMOVAL TO SURFACE BLENDING.

ZIRCONIA GRAIN FLAP DISCS



ARC ZIRCONIA FLAP DISCS

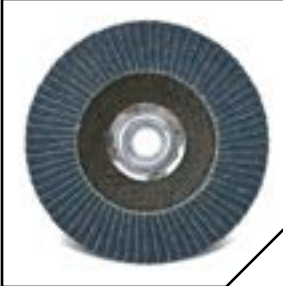
SELF-SHARPENING GRAINS REDUCE HEAT WHILE GRINDING FOR A CONSISTENT REMOVAL RATE.

- FLAT FACE BEST FOR FLAT SURFACES
- UNCOMPRESSED FLAPS RESULT IN A MORE FORGIVING DISC OPERATION

ORDER MULTIPLES OF 10 EA

MOST POPULAR

SIZE		4-1/2" X 5/8"-11		4-1/2" X 7/8"	
SHAPE		T27	T29	T27	T29
GRIT	36	ARC10813FF	ARC10813AF	ARC10823FF	ARC10823AF
	40	ARC10814FF	ARC10814AF	ARC10824FF	ARC10824AF
	60	ARC10815FF	ARC10815AF	ARC10825FF	ARC10825AF
	80	ARC10816FF	ARC10816AF	ARC10826FF	ARC10826AF
	120	ARC10817FF	ARC10817AF	ARC10827FF	ARC10827AF



CGW Z3 ZIRCONIA FLAP DISCS

PREMIUM ZIRCONIA ALUMINA GRAIN WITH ACTIVE GRINDING AID FOR COOL CUTTING WITH LIGHT PRESSURE.

- FASTEST STOCK REMOVAL IN THE MARKETPLACE FOR STEEL APPLICATIONS
- RECOMMENDED FOR AGGRESSIVE USE AND HEAVY DUTY APPLICATIONS

ORDER MULTIPLES OF 10 EA

SIZE		4-1/2" X 5/8"-11		4-1/2" X 7/8"	
SHAPE		T27	T29	T27	T29
GRIT	24	CGW42310	CGW42330	CGW42300	CGW42320
	36	CGW42311	CGW42331	CGW42301	CGW42321
	40	CGW42312	CGW42332	CGW42302	CGW42322
	60	CGW42314	CGW42334	CGW42304	CGW42324
	80	CGW42315	CGW42335	CGW42305	CGW42325
	120	CGW42316	CGW42336	CGW42306	CGW42326

DIFFERENT DIAMETER SIZES AVAILABLE UPON REQUEST

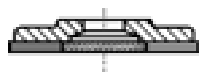


UNITED ABRASIVES OVATION ATTACKER - HIGH DENSITY

HIGH PERFORMANCE ZIRCONIUM GRAIN FOR A WIDE VARIETY OF GRINDING AND FINISHING APPLICATIONS.

- PROVIDES LONG LIFE WHILE MAINTAINING HIGH STOCK REMOVAL RATES
- HIGH DENSITY FLAP DISCS CONTAIN 40% MORE MATERIAL THAN REGULAR DENSITY FLAP DISCS

ORDER MULTIPLES OF 10 EA



DIAMETER	HOLE	TYPE	GRIT	PART NUMBER
4-1/2"	7/8"	T27	40G	UNI76206
4-1/2"	7/8"	T27	60G	UNI76208



FLAP DISCS

FOR RIGHT ANGLE GRINDER APPLICATIONS RANGING FROM HEAVY STOCK REMOVAL TO SURFACE BLENDING.

CERAMIC GRAIN FLAP DISCS



ARC PREDATOR CERAMIC FLAP DISCS

CONSISTENT STOCK REMOVAL RATE WITH TWO GRINDING AIDS REDUCE HEAT TO PROLONGED LIFE.

- FLAT FACE BEST FOR FLAT SURFACES
- FOR MODERATE TO HIGH PRESSURE GRINDING APPLICATIONS

ORDER MULTIPLES OF 10 EA

SIZE		4-1/2" X 5/8"-11		4-1/2" X 7/8"	
SHAPE		T27	T29	T27	T29
GRIT	36	ARC71-10813FF	ARC71-10813AF	ARC71-10813FF	ARC71-10823AF
	40	ARC71-10814FF	ARC71-10814AF	ARC71-10814FF	ARC71-10824AF
	60	ARC71-10815FF	ARC71-10815AF	ARC71-10815FF	ARC71-10825AF
	80	ARC71-10816FF	ARC71-10816AF	ARC71-10816FF	ARC71-10826AF
	120	ARC71-10817FF	ARC71-10817AF	ARC71-10817FF	ARC71-10827AF



3M™ CUBITRON™ II FLAP DISCS

BUILT WITH 3M PRECISION-SHAPED GRAIN FOR AN EXCEPTIONALLY FAST CUT, HELPING INCREASE PRODUCTIVITY.

- FOR MEDIUM-DUTY APPLICATIONS LIKE WELD REMOVAL AND SURFACE PREPARATION USE 967A
- FOR AGGRESSIVE GRINDING APPLICATIONS LIKE BEVELING, WELD REMOVAL AND EDGE DEBURRING USE 969F

ORDER MULTIPLES OF 10 EA

SIZE		4-1/2" X 5/8"-11		4-1/2" X 7/8"	
SHAPE		T27	T29	T27	T29
967A	40+	3M55602	3M55620	3M55605	3M55623
	60+	3M55603	3M55621	3M55606	3M55624
	80+	3M55604	3M55622	3M55607	3M55625
969F	40+	3M64373	3M64391	3M64376	3M64394
	60+	3M64374	3M64392	3M64377	3M64395
	80+	3M64375	3M64393	3M64378	3M64396



CGW C3 CERAMIC FLAP DISCS

SIZE	TYPE	GRAIN	GRIT	PART NUMBER	QUANTITY
4-1/2X5/8-11	T27	CERAMIC	40	CGW42412	10
4-1/2X5/8-11	T27	CERAMIC	80	CGW42415	10
4-1/2X7/8	T27	CERAMIC	40	CGW42402	10
4-1/2X7/8	T27	CERAMIC	60	CGW42404	10



NORTON BLAZE R980P FLAP DISCS

SIZE	TYPE	GRAIN	GRIT	PART NUMBER	QUANTITY
4-1/2X5/8-11	T27	CERAMIC	40	NOR98290	10
4-1/2X5/8-11	T29	CERAMIC	40	NOR83491	10



GENERAL PURPOSE FLAP WHEELS

DEBURR EDGES, BLEND, FINISH AND CLEAN INSIDE AND OUTSIDE DIAMETERS OF FERROUS AND NON-FERROUS MATERIALS. HIGH QUALITY CLOTH WITH STANDARD DENSITY.

A HIGH-QUALITY ALUMINUM OXIDE ABRASIVE PROVIDES A SUPERIOR CUT RATE AND LIFESPAN, WHILE THE STEEL SHANK DESIGN OFFERS CHATTER-FREE FINISHES, EXCELLENT BALANCE, AND QUICK CHANGES.

GENERAL PURPOSE MICRO-MINI FLAP WHEELS - 1/8" SHANK

DIMENSIONS	MAX SPEED	60	80	120	180	240	320
3/8 x 3/8"	40,000	FW38100	FW38200	FW38300	FW38400	FW38500	FW38600
5/8 x 5/8"	37,000	FW38101	FW38201	FW38301	FW38401	FW38501	FW38601
5/8 x 3/4"	37,000	FW38103	FW38202	FW38302	FW38402	FW38502	FW38602
3/4 x 3/16"	35,000	FW38103	FW38203	FW38303	FW38403	FW38503	FW38603
3/4 x 3/8"	35,000	FW38104	FW38204	FW38304	FW38404	FW38504	FW38604
3/4 x 1/2"	35,000	FW38105	FW38205	FW38305	FW38405	FW38505	FW38605
3/4 x 5/8"	35,000	FW38106	FW38206	FW38306	FW38406	FW38506	FW38606
3/4 x 3/4"	35,000	FW38107	FW38207	FW38307	FW38407	FW38507	FW38607
1-3/16 x 1/8"	30,000	-	FW38208	FW38308	FW38408	FW38508	FW38608
1-3/16 x 3/16"	30,000	FW38109	FW38209	FW38309	FW38409	FW38509	FW38609
1-3/16 x 3/8"	30,000	FW38110	FW38210	FW38310	FW38410	FW38510	FW38610

GENERAL PURPOSE SMALL FLAP WHEELS FLAP WHEELS - 1/4" SHANK

DIMENSIONS	MAX SPEED	60	80	120	180	240	320
1 x 1/2"	30,000	FW11260	FW11280	FW112120	-	-	-
1 x 1"	30,000	FW1160	FW1180	FW11120	FW11180	FW11240	FW11320
1-1/2 x 1/2"	30,000	FW1121260	FW1121280	FW11212120	-	-	-
1-1/2 x 1"	25,000	FW112160	FW112180	FW1121120	-	-	-
2 x 1/2"	25,000	FW21260	FW21280	FW212120	FW212180	-	-
2 x 3/4"	25,000	FW23460	FW23480	FW234120	-	-	-
2 x 1"	25,000	FW2160	FW2180	FW21120	FW21180	FW21240	FW21320
2-1/2 x 1/2"	23,000	FW2121260	FW2121280	FW21212120	-	-	-
2-1/2 x 1"	23,000	FW212160	FW212180	FW2121120	FW2121180	-	-
3 x 1/2"	23,000	FW31260	FW31280	FW312120	-	-	-
3 x 3/4"	23,000	FW33460	FW33480	FW334120	-	-	-
3 x 1"	23,000	FW3160	FW3180	FW31120	FW31180	FW31240	FW31320

ALUMINUM OXIDE RESIN BOND FLAP WHEELS - 1/4" SHANK

GRIT	3-1/2 x 1 x 5/8"	3-1/2 x 1-1/2 x 5/8"	4 x 1 x 5/8"	4 x 2 x 5/8"
40	FW312158	FW3121125860	FW415860	FW425860
50	FW31215880	FW31121125880	FW415880	FW425880
60	FW312158120	FW31211258120	FW4158120	FW4258120
MAX SPEED	12,000	12,000	12,000	12,000

GRIT	6 x 1 x 1"	6 x 2 x 1"	8 x 1 x 1"	8 x 2 x 1"
40	FW61140	FW62140	-	-
50	FW61150	FW62150	-	-
60	FW61160	FW62160	FW81160	FW82160
80	FW61180	FW62180	FW81180	FW82180
100	FW611100	FW621100	-	-
120	FW611120	FW621120	FW811120	FW821120
150	FW611150	-	-	-
180	FW611180	FW621180	-	-
320	FW611320	-	-	-
MAX SPEED	6,200	6,200	4,700	4,700



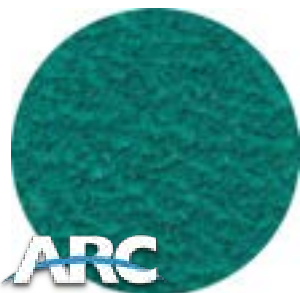
ARC ALUMINUM OXIDE CLOTH PSA DISC

VERSATILE GRAIN USE FOR CUTTING, STOCK REMOVAL AND DEBURRING ON ALL METALS.

- PRESSURE SENSITIVE ADHESIVE ALLOWS DISC TO BE SECURED TO PAD OR PLATEN
- EASILY REMOVED WITHOUT GLUE RESIDUE
- A CLOTH BACKING FOR STRENGTH AND DURABILITY

ORDER MULTIPLES OF 50 EA

GRIT	DIAMETER					
	1 INCH	2 INCH	3 INCH	4 INCH	5 INCH	6 INCH
24	-	-	-	ARC30426-7	ARC30437	-
36	ARC30378	ARC30402	ARC30414	ARC30426-8	ARC30438T	ARC30450
40	ARC30379	ARC30403	ARC30415	ARC30427	ARC30439	ARC30451
50	ARC30380	ARC30404	ARC30416	ARC30428	ARC30440	ARC30452
60	ARC30381	ARC30405T	ARC30417T	ARC30429T	ARC30441T	ARC30453T
80	ARC30382	ARC30406T	ARC30418T	ARC30430T	ARC30442T	ARC30454T
100	ARC30383	ARC30407T	ARC30419T	ARC30431T	ARC30443T	ARC30455T
120	ARC30384	ARC30408T	ARC30420T	ARC30432T	ARC30444T	ARC30456T
150	ARC30385	ARC30409T	ARC30421T	ARC30433T	ARC30445T	ARC30457T
180	ARC30386	ARC30410T	ARC30422T	ARC30434T	ARC30446T	ARC30458T
220	ARC30386GR	ARC30410TGR	ARC30422TZ1	ARC30434TGR	ARC30446TZ2	ARC30458TZ1
240	ARC30387	ARC30411T	ARC30423T	ARC30435T	ARC30447T	ARC30459T
320	ARC30388	ARC30412T	ARC30424T	ARC30436T-8	ARC30448T	ARC30460T
400	ARC30388GR	ARC30412TZ2	ARC30424TGR	ARC30436Z2T	ARC30448TGR	ARC30460TGR



ARC ZIRCONIA ALUMINA CLOTH PSA DISC

SELF-SHARPENING GRAINS REDUCE HEAT WITH ADDITIONAL GRINDING AID TO PROLONG PRODUCT LIFE.

- DURABLE BACKING FOR HEAVY SANDING AND GRINDING
- PRESSURE SENSITIVE ADHESIVE ALLOWS DISC TO BE SECURED TO PAD OR PLATEN
- EASILY REMOVED WITHOUT GLUE RESIDUE

ORDER MULTIPLES OF 50 EA

GRIT	DIAMETER					
	5 INCH	6 INCH	8 INCH	12 INCH	20 INCH	24 INCH
36	ARC30438-3	ARC30450-1	ARC30474ZA	ARC30510-1	ARC30558ZA	ARC30570ZA
40	ARC30439-2	ARC30451-1	ARC30475ZA	ARC30511ZA-1	ARC30559ZA	ARC30571ZA
50	ARC30440-3	ARC30452-09	ARC30476ZA	ARC30512-1	ARC30560ZA	ARC30572ZA
60	ARC30441-3	ARC30453ZA-1	ARC30477ZA	ARC30513-2	ARC30561ZA	ARC30573ZA
80	ARC30442-3	ARC30454-09	ARC30478ZA	ARC30514-6	ARC30562ZA	ARC30574ZA
120	ARC30444-5	ARC30456ZA	ARC30480ZAY5	ARC30516ZA	ARC30564ZA	ARC30576-2



HOLDER PADS FOR PSA DISCS

FIRM, LOW PROFILE URETHANE MOLDED PAD WITH A HEAVY DUTY RIVETED PLASTIC HUB.

SHANK	1/2"	3/4"	1"	1-1/2"	2"	3"	4"	5"
1/8"	PSA12	PSA34	PSA1	-	-	-	-	-
1/4"	PPSA12	PPSA34	PPSA1	PPSA112	PPSA2	PPSA3	PPSA4	PPSA5



NORTON A275P AO COARSE GRIT PAPER PSA DISC ROLL

PREMIUM P-GRADED, HEAT TREATED, TOUGHENED ALUMINUM OXIDE ABRASIVE DELIVERS SUPERIOR LIFE, FAST CUT RATE, CONSISTENT FINISH.

FOR HIGH-PERFORMANCE COARSE GRIT DRY STRIPPING, BLENDING, AND SANDING ON ALL MATERIALS; PRESSURE SENSITIVE ADHESIVE AND LINKED DISC ROLL FORMAT ALLOW EASY APPLICATION, REMOVAL, AND DISPENSING. AN EXCELLENT CHOICE FOR STOCK REMOVAL, AND BLENDING ON ALL SURFACES.

GRIT	3-1/2"	5"	6"
80	NOR36376	NOR31464	NOR31481
100	-	NOR31463	NOR31480
120	NOR36375	NOR31462	NOR31479
150	-	NOR31461	NOR31478
180	NOR36373	NOR31460	NOR31477
220	NOR36372	NOR31459	NOR31476
240	-	NOR31458	NOR31475
280	NOR36370	NOR31457	NOR31474
320	NOR36369	NOR31456	NOR31473
400	NOR36368	NOR31454	NOR31471
600	-	NOR31452	NOR31469
800	-	NOR31451	NOR31468



NORTON A275P AO COARSE GRIT PAPER PSA ROLL - 2-3/4" X 25 YARDS

PREMIUM P-GRADED, HEAT TREATED, TOUGHENED ALUMINUM OXIDE ABRASIVE DELIVERS SUPERIOR LIFE, FAST CUT RATE, CONSISTENT FINISH.

PAPER ROLLS ARE ENGINEERED FOR OPTIMUM PERFORMANCE WHEN HAND OR MACHINE SANDING METAL, COMPOSITES AND PAINTED SURFACES. PAPER ROLLS PROVIDE A COST EFFECTIVE ALTERNATIVE TO SHEETS.

GRIT	PART NUMBER
80	NOR31691
100	NOR31690
120	NOR31689
150	NOR31688
180	NOR31687
220	NOR31686
240	NOR31685
320	NOR31683
400	NOR31681





UNITED ABRASIVES 6S PREMIUM STEARATED CERAMIC - HOOK & LOOP (NO HOLES)

PREMIUM CERAMIC GRAIN, PREMIUM STEARATED COATING PREVENTS LOADING

- THIS SPECIAL SHARP AND DURABLE GRAIN CUTS FAST AND LASTS LONG FOR FAST STOCK REMOVAL


DIAMETER	GRIT	PART NUMBER	QUANTITY
5"	80	UNI35320	50
	100	UNI35321	50
	120	UNI35322	50
	150	UNI35323	50
	180	UNI35324	50
	220	UNI35325	50
	320	UNI35327	50
	400	UNI35328	50

KLINGSPOR GOLD PSA DISCS PAPER BACKED - PS33		THIS MATERIAL IS PERFECT FOR SANDING WHERE LOADING IS A PROBLEM.		
	GRIT	4"	5"	6"
	60	KLP460	KLP560	KLP660
	80	KLP480	KLP580	KLP680
	100	KLP4100	KLP5100	KLP6100
	120	KLP4120	KLP5120	KLP6120
	150	KLP4150	KLP5150	KLP6150
	180	KLP4180	KLP5180	KLP6180
	220	KLP4220	KLP5220	KLP6220
	240	KLP4240	KLP5240	KLP6240
	320	KLP4320	KLP5320	KLP6320
400	KLP4400	KLP5400	KLP6400	

KLINGSPOR ALUMINUM OXIDE GOLD DISCS WITH HOOK & LOOP BACKING			
	GRIT	2"	3"
	60	KL260V	KL360V
	80	KL280V	KL380V
	100	KL2100V	L3100V
	120	KL2120V	KL3120V
	150	KL2150V	KL3150V
	180	KL2180V	KL3180V
	220	KL2220V	KL3220V
	320	KL2320V	KL3320V

PSA HOLDER PADS		SANDING PADS FOR USE ON ALL DUAL ACTION/RANDOM ORBITAL TOOLS.		
	DIAMETER	THREAD SIZE	THICKNESS	PART NUMBER
	3"	5/16-24 MALE	5/8"	DA3
	3-1/2"	5/16-24 MALE	5/8"	DA312
	3-3/4"	5/16-24 MALE	5/8"	DA334
	4"	5/16-24 MALE	5/8"	DA4
	5"	5/16-24 MALE	3/8"	DA5
	5-3/4"	5/16-24 MALE	5/8"	DA534
	6"	5/16-24 MALE	3/8"	DA6
	5" (DOTCO BRAND)	5/16-24 MALE	3/8"	DOT543017
	5" (CARBORUNDUM BRAND)	5/16-24 MALE	3/8"	CAI99317
6" (CARBORUNDUM BRAND)	5/16-24 MALE	3/8"	CAI99319	

PSA HAND PAD		FOR EXCELLENT CONFORMABILITY AND SOFTNESS, RESULTING IN FINE FINISHES.	
	• ELIMINATES FINGER SANDING. THE THICK PAD IS COMPOSED OF TWO LAYERS, NEOPRENE AND POLYESTER FOAM		
	DIAMETER	PART NUMBER	
	5"	NOR02842	

HOOK & LOOP (VELCRO) HOLDER PADS				
	DIAMETER	THREAD SIZE	PAD THICKNESS	Part Number
	2"	5/16-24 MALE	5/8"	DA251624
	3"	5/16-24 MALE	5/8"	DA3V
	5"	5/16-24 MALE	5/8"	GP5
	5"	5/16-24 MALE	3/8"	SA840050
	5"	5/16-24 MALE	5/8"	SA840052
	6"	5/16-24 MALE	5/8"	SA840062
	6"	5/16-24 MALE	1/4"	GP6
	7"	5/16-24 MALE	1/2"	SA840070

SANDING PADS FOR USE ON ALL DUAL ACTION/RANDOM ORBITAL TOOLS



ALUMINUM OXIDE STRAIGHT CARTRIDGE ROLLS

MULTI-LAYER DESIGN ENHANCES ABRASIVE LONGEVITY AND HELPS PRODUCE A CONSISTENT CUT THROUGHOUT THE LIFE OF THE ROLL.

- IDEAL FOR BLENDING, DEBURRING AND POLISHING ON FERROUS METALS
- STRAIGHT CYLINDRICAL SHAPE ENABLES OPERATORS TO FINISH HARD-TO-REACH AREAS

FAST CUTTING ON IRREGULAR CONTOURS AND OTHER HARD-TO-REACH AREAS ON ALL FERROUS METALS

DIMENSIONS	PART NUMBER	GRIT	QTY
3/16 X 1 X 3/32"	SA702193	80	100
	SA703778	100	100
	SA705090	120	100
	SU18462	150	100
	SA708907	180	100
	SA712812	240	100
1/4 X 1 X 1/8"	SA710335	60	100
	SA711599	80	100
	SA706317	100	100
	SA707620	120	100
	SA711444	180	100
	SA702309	240	100
	SA707434	320	100
1/4 X 1-1/2 X 1/8"	SA704406	60	100
	SA705686	80	100
	SA708617	100	100
	SA709907	120	100
	SU16735	150	100
	SA700718	180	100
	SA704582	240	100
	SU16612	320	100
	SA713447	400	100
5/16 X 1-1/2 X 1/8"	SU19741	60	100
	SA705819	80	100
	SA713120	100	100
3/8 X 1-1/2 X 1/8"	SA702513	40	100
	SA709600	50	100
	SA703732	60	100
	SA705036	80	100
	SA706044	100	100
	SA707336	120	100
	SA702795	150	100
	SA711147	180	100
	SA702004	240	100
	SA714871	400	100

DIMENSIONS	PART NUMBER	GRIT	QTY
1/2 X 1 X 1/8"	SA712211	50	100
	SA706313	60	100
	SA707617	80	100
	SA710189	100	100
	SA711471	120	100
	SA710652	240	100
	SA710267	36	100
1/2 X 1-1/2 X 1/8"	SA707947	40	100
	SA702091	50	100
	SA709187	60	100
	SA710479	80	100
	SU11891	100	100
	SA709813	120	100
	SU11893	180	100
	SA714140	220	100
	SU11894	240	100
	SU11895	320	100
1/2 X 2 X 1/8"	SA707308	60	50
	SU16642	80	50
	SA706401	100	50
	SA707712	120	50
1/2 X 2 X 3/16"	SA713369	60	50
	SA713139	80	50
	SA715219	100	50
1/2 X 2 X 1/4"	SA722753	40	50
5/8 X 1 X 3/16"	ARC21440	80	50
5/8 X 1-1/2 X 1/8"	SA713218	60	50
	SA714175	80	50
5/8 X 1-1/2 X 3/16"	SU19799	80	50
5/8 X 2 X 3/16"	SA717639	50	50

GENERAL PURPOSE CUTTING ACTION WEARS EVENLY AND UNIFORMLY, PRODUCING A CONSISTENT CUT ON FERROUS AND NON-FERROUS METALS.

CERAMIC OXIDE CARTRIDGE ROLLS	DIMENSIONS	PART NUMBER	SHAPE	GRIT	QTY
	1/4 X 1-1/2 X 1/8"	SA730076	STRAIGHT	60	100
		SA730077	STRAIGHT	80	100
		SA730078	STRAIGHT	120	100
	1/2 X 1-1/2 X 1/8"	SA730088	STRAIGHT	60	100
		SA730089	STRAIGHT	80	100
		SA730090	STRAIGHT	120	100
	1/2 X 1-1/2 X 1/8"	SA730099	FULL TAPER	60	100
		SA730101	FULL TAPER	80	100
		SA730102	FULL TAPER	120	100



ALUMINUM OXIDE TAPERED CARTRIDGE ROLLS

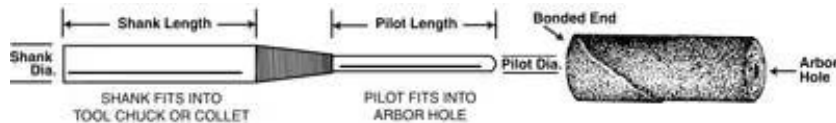
TAPERED DESIGN PROVIDES MORE ACCESS AND POINTED CONTROL IN CONCAVE AREAS OR INSIDE CORNERS.

- PRODUCES NEW LAYERS OF FRESH CUTTING ACTION THROUGHOUT LIFE AS TOP LAYERS ARE WORN AWAY

FAST CUTTING ON IRREGULAR CONTOURS AND OTHER HARD-TO-REACH AREAS ON ALL FERROUS METALS

DIMENSIONS	PART NUMBER	GRIT	QTY
3/8 X 1 X 1/8" FT	SA707096	60	100
	SA708357	80	100
	SA702229	120	100
	SA706036	180	100
3/8 X 1-1/2 X 1/8"	SA710094	50	100
	SA704214	60	100
	SA705509	80	100
	SA706968	120	100
3/8 X 2 X 1/8"	SA720871	60	100
1/2 X 1 X 1/8"	SA712772	60	100
	SA700973	80	100
	SA710469	120	100
	SA701277	180	100
1/2 X 1-1/2 X 1/8"	SA710725	36	100
	SA702565	50	100
	SA709653	60	25
	SA710928	80	25
	SA712731	100	25
	SU44990	120	50
SU39122	180	50	

DIMENSIONS	PART NUMBER	GRIT	QTY
1/2 X 2 X 1/8"	SA700667	40	100
	SA701974	50	100
	SA702233	60	100
5/8 X 1 X 3/16"	SA711224	40	100
5/8 X 2 X 1/4"	SA706950	40	100
	SA708572	40	100
3/4 X 1-1/2 X 3/16"	SA702768	50	100
	SA703989	60	100
	SA710580	40	100
3/4 X 1-1/2 X 1/8"	SA710580	40	100
3/4 X 2 X 3/16"	SA706105	60	100
	SA707036	36	100
1 X 2 X 1/4"	SA701362	80	100
	SA705527	60	100
1/2 X 1-1/2 X 1/8"	SA706805	80	100



CARTRIDGE ROLL MANDRELS - RUST PROOF BLACK OXIDE FINISH

PART NUMBER	PILOT DIMENSIONS	PILOT LENGTH	SHANK DIAMETER	SHANK LENGTH	OVERALL LENGTH
AF1	5/64"	1"	1/8"	1"	3"
AF2	3/32"	1"	1/8"	1"	3"
AF5	1/8"	1"	1/8"	1"	3"
AF8	1/8"	3/4"	1/4"	1"	3-1/4"
AF9	1/8"	1"	1/4"	1-1/4"	2-3/4"
AF9-4	1/8"	1"	1/4"	2-1/2"	4"
AF9-6	1/8"	1"	1/4"	4-1/2"	6"
AF9-8	1/8"	1"	1/4"	6-1/2"	8"
AF9-12	1/8"	1"	1/4"	10-1/2"	12"
AF10	1/8"	1-1/2"	1/4"	1-3/4"	4"
AF15	3/16"	3/4"	1/4"	1-1/4"	2-3/4"
AF16	3/16"	1"	1/4"	1-1/4"	3"
AF17	3/16"	1-1/2"	1/4"	1-1/4"	3-1/2"
AF21	1/4"	1"	1/4"	1-1/4"	3"



ALUMINUM OXIDE SPIRAL BAND

SPIRAL BANDS ARE THE BEST FOR BLENDING AND POLISHING CONTOURED SURFACES. SMOOTH, CHATTER-FREE OPERATION.

- WITHSTANDS HIGH HEAT AND PRESSURE
- FOR FINISHING CURVED AND CONTOURED SURFACES

TO BE USED WITH A RUBBER EXPANDING DRUM

DIMENSIONS	GRIT		
	24	36	60
1/4 X 1-1/2"	-	-	B1411260
1/2 X 1/2"	-	B121236	B121260
1/2 X 1"	B12124	B12136	B12160
1/2 X 1-1/2"	-	B1211236	B1211260
3/4 X 1"	-	B34136	B34160
3/4 X 1-1/2"	-	B3411236	B3411260
1 X 1"	-	B1136	B1160
1 X 1-1/2"	-	B111236	B111260
1-1/2 X 1"	-	B112136	B112160
1-1/2 X 1-1/2"	-	B11211236	B11211260
2 X 2"	-	B2236	B2260

DIMENSIONS	GRIT		
	80	100	120
1/2 X 1/2"	B121280	-	-
1/2 X 1"	B12180	-	B1121120
1/2 X 1-1/2"	B1211280	B12112100	-
3/4 X 1"	B34180	-	B341120
3/4 X 1-1/2"	B3411280	-	-
1 X 1"	B1180	B11100	-
1 X 1-1/2"	B111280	B1112100	-
1-1/2 X 1"	B112180	-	-
1-1/2 X 1-1/2"	B11211280	-	B11211210
2 X 2"	B2280	-	-



"QUICK-LOCK" TYPE RUBBER DRUMS WITH 1/4" SHANK

DIMENSIONS	PART NUMBER	DIMENSIONS	PART NUMBER
1/2 X 1"	QLD121	1 X 1"	QLD11
1/2 X 1-1/2"	QLD12112	1 X 1-1/2"	QLD1112
3/4 X 3/4"	QLD3434	1-1/2 X 1"	QLD1121
3/4 X 1-1/2"	QLD34112	1-1/2 X 1-1/2"	QLD112112
1 X 2"	QLD12	2 X 2"	QLD22

No tools necessary - simply twist the rubber spindle by hand. The rubber spindle is seated directly on the drive mandrel (arbor).



SHOP ROLLS

CONVENIENTLY DISPENSED, REDUCE WASTE WITH TEAR-TO-LENGTH SHOPS ROLLS, SUITED FOR HAND OR MACHINE SHAPING, FINISHING OR POLISHING.

- EASILY USED FOR HAND APPLICATIONS
- USEFUL FOR BURR REMOVAL AFTER METAL WORK PIECE HAS BEEN CUT OR MACHINED.



SHOP ROLLS - FIRM MATERIAL

RESIN OVER RESIN CONSTRUCTION FOR A STRONG BOND THAT IS RESISTANT TO HEAT AND MOISTURE. OPEN COAT STRUCTURE PREVENTS LOADING.

- ALUMINUM OXIDE GRAIN
- HIGH QUALITY DA-F MATERIAL
- MEDIUM TENSILE STRENGTH
- LASTS LONGER THAN J CLOTH

GRIT	1" X 50 Yards	1-1/2" X 50 Yards	2" X 50 Yards
60	UNI80605	UNI80606	UNI80620
80	UNI80805	UNI80806	UNI80820
100	UNI81005	UNI81006	UNI81020
120	UNI81205	UNI81206	UNI81220
150	UNI81505	UNI81506	UNI81520
180	UNI81805	UNI81806	UNI81820
220	UNI82205	UNI82206	UNI82220
240	UNI82405	UNI82406	UNI82420
320	UNI83205	UNI83206	UNI83220
400	UNI83405	UNI83406	UNI83420

MOST POPULAR

1-1/2" IS NON-STOCK AND AVAILABLE UPON REQUEST.



SUPERFLEX SHOP ROLLS - FLEXIBLE MATERIAL

THE DIFFERENCE IS THE CLOTH BACKING. THIS ENABLES SUPERFLEX TO BE STRETCHED AND TWISTED WITHOUT FEAR OF SNAPPING OR CRACKING. EACH ROLL IS TRIPLE FLEXED.

- ALUMINUM OXIDE GRAIN
- INCREDIBLY DURABLE AND FLEXIBLE
- TEARS EASILY AND CONFORMS
- HIGHEST QUALITY J CLOTH

GRIT	1" X 50 Yards	2" X 50 Yards
60	CRA10060	CRA20060
80	CRA10080	CRA20080
100	CRA10100	CRA20100
120	CRA10120	CRA20120
150	CRA10150	CRA20150
180	CRA10180	CRA20180
220	CRA10220	CRA20220
240	CRA10240	CRA20240
320	CRA10320	CRA20320
400	CRA10400	CRA20400

MOST POPULAR

STANDARD PRODUCT FOR MAINTENANCE DEPARTMENTS AND MACHINE SHOPS



9 X 11" CLOTH BACKED SHEETS - ALUMINUM OXIDE

DURABLE, FLEXIBLE CLOTH BACKING AND DENSE GRAINS CONFORM TO CYLINDRICAL OR CONTOURED PARTS. CUT OR TEAR TO USABLE SIZE TO ACCOMMODATE VARIOUS TASKS.

DURABLE CLOTH MATERIALS FLEX AND CONFORM TO CONTOURS AND CYLINDRICAL PARTS AND WITHSTAND AGGRESSIVE APPLICATIONS. PAPER BACKINGS ADAPT TO CORNERS AND ACUTE GEOMETRIES.

GRIT	MINIMUM PACKAGE	PART NUMBER
40	25	CL40
50	25	CL50
60	25	CL60
80	25	CL80
100	100	CL100
120	100	CL120



9 X 11" GARNET PAPER - NATURAL GARNET ABRASIVE

GREAT FOR CLEANING AND REFINISHING, THESE DURABLE SANDING SHEETS CAN BE USED FOR A VARIETY OF SURFACE PREPARATION JOBS. CUT OR TEAR TO USABLE SIZE.

PAPER SHEETS ARE ENGINEERED FOR OPTIMUM PERFORMANCE WHEN HAND OR MACHINE SANDING METAL, WOOD, COMPOSITES, AND PAINTED SURFACES. PROTECTIVE PACKAGING ELIMINATES WASTE.

GRIT	MINIMUM PACKAGE	PART NUMBER
40	25	CAI10875
50	50	CAI10854
60	50	CAI10853
80	50	CAI10848
100	100	CAI10847
120	100	CAI10846
150	100	CAI10845
180	100	CAI10844
220	100	CAI10843




9 X 11" SCREEN CLOTH - SAND-SCREEN/WATERPROOF MESH



NORTON SCREEN-BAK DURITE Q421 SCREEN SHEETS ARE ENGINEERED FOR MAXIMUM FLEXING AND FAST CUTTING FOR WET OR DRY APPLICATIONS.

THESE SHEETS HAVE A LONGER LIFE THAN PAPER SHEETS. THEY CAN BE CUT TO SIZE WITHOUT SHEDDING. TYPICAL APPLICATIONS INCLUDE SCOURING AND LIGHT DEBURRING, SCALE AND RUST REMOVAL, BLENDING MACHINE TOOL MARKS, FINE SANDING AND POLISHING.


GRIT	PART NUMBER
80	NOR00960
100	NOR00955
120	NOR00950
150	NOR00945
220	NOR00935
320	NOR00920
400	NOR00915





ORDER MULTIPLES OF 25 EA

	9 X 11" NORTON NO-FIL ADALOX A275 / CARBORUNDUM PREMIER RED
	BOTH PAPERS ARE MANUFACTURED BY SAINT GOBAIN, NORTON IS OUR PRIMARY LINE. ADALOX IS COMPARABLE TO PREMIER RED BUT WITH A BROWN DYE IN RESIN.
	TYPICAL APPLICATIONS INCLUDE LIGHT-DUTY METAL SANDING, PRIMER SANDING, DEFECT REMOVAL FROM PAINTED SURFACES, FILLER SANDING, SANDING AND FINISHING OF COMPOSITES AND FIBERGLASS, BARE WOOD SANDING, AND SANDING BETWEEN SEALER COATS.

GRIT	MINIMUM PACKAGE		
		NORTON	CARBORUNDUM
80	50	NOR31634	CAI20538
100	100	NOR31633	CAI20537
120	100	NOR31632	CAI20536
150	100	NOR31631	CAI20535
180	100	NOR31630	CAI20534
220	100	NOR31629	CAI20533
320	100	NOR31626	CAI20530
400	100	NOR31624	CAI20529
600	100	NOR31622	CAI20528
1000	100	NOR31620	CAI20527
1200	100	NOR31619	CAI20526

PAPER SHEETS ARE TYPICALLY USED HAND OR JITTERBUG SANDING.

	9 X 11" WATERPROOF PAPER - SILICON CARBIDE
	EXCEPTIONAL FINISHING IN WET SANDING APPLICATIONS FOR METALWORKING. HARD, SHARP SILICON CARBIDE GRAIN BONDED TO A SPECIAL WATERPROOF PAPER BACKING.
	TYPICAL APPLICATIONS INCLUDE LIGHT-DUTY METAL SANDING, PRIMER SANDING, DEFECT REMOVAL FROM PAINTED SURFACES, FILLER SANDING, SANDING AND FINISHING OF COMPOSITES AND FIBERGLASS.

GRIT				
	CUTRITE ABRASIVES	CARBORUNDUM	NORTON	KLINGSPOR
60	WD60	-	NOR01175	-
80	WD80	-	NOR01170	WD80K
100	WD100	-	NOR01165	WD100K
120	WD120	-	NOR01160	WD120K
150	WD150	-	NOR01155	WD150K
180	WD180	-	NOR01150	WD180K
220	-	WD220	NOR39367	WD220K
240	-	WD240	NOR39366	WD240K
320	-	WD320	NOR39364	WD320K
400	-	WD400	NOR39362	WD400K
500	-	WD500	NOR39361	WD500K
600	-	WD600	NOR39360	WD600K
800	-	-	NOR39382	WD800K
1000	-	-	NOR39381	WD1000K
1200	-	-	NOR39380	WD1200K
1500	-	-	NOR39379	WD1500K
2000	-	-	NOR39378	WD2000K

ORDER MULTIPLES OF 50 EA



GRINDING/SANDING BELTS

ABRASIVE BELTS ARE SUITABLE FOR VARIOUS GRINDING AND SANDING OPERATIONS FROM HEAVY STOCK REMOVAL TO FINE FINISHING.

- BELTS COME IN A WIDE RANGE OF SIZES AND CAN BE CUSTOMIZED TO MEET YOUR SIZE REQUIREMENTS

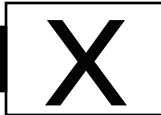
ABRASIVE GRAINS

ALUMINUM OXIDE	ZIRCONIA	CERAMIC

BACKING WEIGHT

J	<ul style="list-style-type: none"> • FLEXIBLE CLOTH BACKING FOR CONTOURED SURFACES • RECOMMENDED FOR ALL ORDINARY MACHINE SANDING OPERATIONS
X	<ul style="list-style-type: none"> • MEDIUM WEIGHT CLOTH BACKING THAT COMBINES STRENGTH AND FLEXIBILITY • USED WHERE FLEXIBILITY IS DESIRED, SUCH AS CONTOUR SANDING
Y	<ul style="list-style-type: none"> • HEAVY WATERPROOF BACKING THAT RESISTS STRETCHING AND ALLOWS MORE PRESSURE TO BE APPLIED TO THE WORKPIECE • EXCELLENT FOR TOUGH APPLICATIONS

WIDTH RANGE: (1/8"-52")



LENGTH RANGE: (12"-168")

MOST POPULAR SANDING BELTS

WIDTH	LENGTH	GRAIN	GRIT	PART NUMBER
1/2"	12"	Z/A	60	ARC71404-2
1/2"	18"	ZA/X	40	ARC714051803-3
1/2"	18"	A/O	60	GA32094
1/2"	18"	ZA	80	GA2025
1/2"	24"	ZIRC	60	ARC71409-2
1/2"	24"	ZIRC	80	ARC71410-2
1/2"	24"	ZA	120	ARC7141002408-2
1/2"	24"	A/O	180	ARC70092
3/4"	18"	ZA/X	40	ARC71416-3
3/4"	18"	A/O	60	GA32169
1-1/8"	21"	S/C	36	GA48449
1-1/2"	60"	CER	36	GA72126
2"	48"	ZIRC	80	ARC71500-2
3"	24"	A/O	80	GA04965
3-1/2"	15-1/2"	ZIRC	120	ARC71642-3

GRAIN USAGE CHART

	CARBON/MILD STEEL	ALUMINUM BRASS BRONZE TIN	STAINLESS ARMORED STEEL TOOL STEEL CAST IRON	INCONEL HASTELLOY TITANIUM
ALUMINUM OXIDE	OPTIMAL	SUITABLE	-	-
ZIRCONIA ALUMINA	SUITABLE	OPTIMAL	SUITABLE	-
CERAMIC	-	SUITABLE	OPTIMAL	SUITABLE
SILICON CARBIDE	-	-	SUITABLE	OPTIMAL

DW SALES GRIT COMPARISON CHART

INCHES	MICRONS	MM	ANSI OR CAMI USA	FEPA OR "P"	DIAMOND COLOR	LABEL GRADE
0.05205	1322.00	1.31166		P16		EXTRA COARSE
0.04299	1092.00		16			
0.03874	984.00	0.97485		P20		
0.03622	920.00		20			
0.02913	740.00	0.73304		P24		
0.03094	686.00		24			
0.02106	535.00	0.53010	36			
0.02063	524.00	0.51918		P36		
0.01685	428.00	0.42393	40			
0.01601	412.00	0.40665		P40		
0.01382	351.00	0.34773	50		COARSE	
0.01283	326.00	0.32283		P50		
0.01055	268.00	0.26543	60			
0.01024	260.00	0.25756		P60		
0.00768	195.00	0.19507		P80	MEDIUM	
0.00756	192.00	0.19025	80			
0.00614	156.00	0.15443		P100		
0.00555	141.00	0.13970	100			
0.00500	127.00	0.12573		P120	FINE	
0.00457	116.00	0.11481	120			
0.00382	97.00	0.09601		P150		
0.00366	93.00	0.09220	150			
0.00307	78.00	0.07722	180		VERY FINE	
0.00260	66.00	0.06528	220			
0.00256	65.00	0.06452		P220		
0.00228	58.00	0.05791		P240		
0.00211	53.50	0.05309	240		EXTRA FINE	
0.00207	52.50	0.05182		P280		
0.00182	46.20	0.04572		P320		
0.00173	44.00	0.04369	280			
0.00159	40.50	0.04013		P360	SUPER FINE	
0.00142	36.00	0.03556	320			
0.00138	35.00	0.03480		P400		
0.00118	30.00	0.02997		P500		
0.00102	25.80	0.02540		P600	ULTRA FINE	
0.000929	23.60	0.02337	400			
0.000858	21.80	0.02159		P800		
0.000720	18.30	0.01803		P1000		
0.000630	16.00	0.01575	600		MICRO FINE	
0.000602	15.30	0.01524		P1200		
0.000496	12.60			P1500		
0.000472	12.00		800			
0.000394	10.00			P2000	MICRO FINE	
0.000362	9.20		1000			
0.000331	8.40			P2500		
0.000260	6.50		1200			
0.000236	6.00				MICRO FINE	
0.000118	3.00		1500			
0.0000394	1.00		2000			
0.0000197	0.50					
0.0000020	0.05					





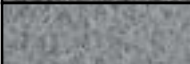
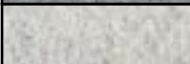


SURFACE CONDITIONING HAND PADS - 6" X 9"

- USED WET OR DRY, WITH MOST SOLVENTS
- SPECIALIZED GRADES FOR MULTIPLE APPLICATIONS
- GENTLE REMOVAL WITHOUT DISTURBING THE PIECE
- CONFORMS TO CONTOURED SURFACES

HAND PADS ARE AN ESSENTIAL PRODUCT FOR GENERAL CLEAN UP AND CONFORMS TO ANY SURFACE. DESIGNED FOR HAND APPLICATIONS SUCH AS DEBURRING, POLISHING, CLEANING, FINISHING AND SURFACE PREPARATION ON METAL COMPOSITE OR PLASTIC SURFACES.

DURABLE NON-WOVEN, OPEN WEB CONSTRUCTION WON'T SHRED, RUST OR SPLINTER LIKE STEEL WOOL.

COLOR	*GRIT	GRADE	USE	CUTRITE ABRASIVES	STANDARD ABRASIVES
	80-120	Coarse to Med	Heavy Duty	BHP	SA827525
	120-220	Med to Fine	General Purpose	AVF	SA827500
	240-360	Very Fine	Industrial	GA41809	SA827520
	240-360	Very Fine	Ultra Fine	SU40754	-
	800-1000	Ultra Fine	Ultra Fine	ARC07448	SA827505
	None	Non-Abrasive	Cleaning	ARC07444	SA827510
MINIMUM PACKAGE QUANTITY				20	20

**MANUFACTURERS DO NOT PUBLISH GRITS FOR HAND PADS. THIS IS A BEST ESTIMATE.*



HAND PADS HOLDER

PART NUMBER

SA827000




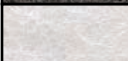


SCOTCH-BRITE HAND PADS

FIND THE RIGHT MINERAL, GRIT COARSENESS AND FINISH FOR YOUR APPLICATION INCLUDING LIGHT DUTY CLEANING, BLENDING AND FINISHING AND EVERY SURFACE PREP TASK IN BETWEEN.

SCOTCH-BRITE™ HAND PADS GIVE YOU A FAST, CONSISTENT SCUFF FOR EVERYDAY SURFACE PREPARATION. IDEAL FOR CLEANING PARTS AND SCUFFING PRIOR TO STAINING AND PAINTING. SIMILAR PERFORMANCE TO STEEL WOOL WITHOUT THE RUSTING OR SPLINTERING.

ORDER MULTIPLES OF 20 EA

COLOR	GRADE	APPLICATION	PART NUMBER
	HEAVY DUTY	QUICK STOCK REMOVAL	3M7440
	GENERAL PURPOSE	SURFACE CONDITIONING	3M7447
	ULTRA FINE	PREP SURFACE	3M7448
	LIGHT DUTY	CLEANING	3M7445



STANDARD ABRASIVES SURFACE CONDITIONING DISCS

MODERATELY AGGRESSIVE MATERIAL OFFERS GREAT VERSATILITY AND MAY BE USED FOR A VARIETY OF MODERATE INDUSTRIAL APPLICATIONS, INCLUDING CLEANING AND DEBURRING.

- FLEXIBLE OPEN WEB REMOVES BURRS AND SURFACE CONTAMINANTS WITHOUT GOUGING THE SUBSTRATE
- MULTI-PURPOSE ABRASIVE WORKS WELL ON FERROUS AND NON-FERROUS METALS AND COMPOSITES
- TOUGH NON-WOVEN FIBERS PROVIDE A CONSISTENT HIGH CUT-RATE AND PROFESSIONAL FINISH

	DIAMETER			
GRADE	1 INCH	1-1/2 INCH	2 INCH	3 INCH
COARSE	SA840137	SA840237	SA840337	SA840437
MEDIUM	SA840138	SA840238	SA840338	SA840438
FINE	SA840139	SA840239	SA840339	SA840439
QUANTITY	50	50	50	25



3M SCOTCH-BRITE SC SURFACE CONDITIONING DISC

THE NON-WOVEN FIBER CONSTRUCTION CONFORMS WELL TO HELP PRESERVE IRREGULAR OR CONTOURED SURFACES AND THE ROLOC™ BACKING SUPPORTS THE DISC FOR AGGRESSIVE CUTTING.

- MULTIPURPOSE FOR CLEANING, POLISHING, BLENDING, GRINDING, LIGHT DEBURRING AND FINISHING
- CONFORMS WELL ON CONTOURED SURFACES WITHOUT UNDERCUTTING OR DAMAGING BASE MATERIAL
- GREAT FOR USE ON ALUMINUM, MILD STEEL, NICKEL ALLOY, STAINLESS STEEL AND TITANIUM

ORDER MULTIPLES OF 50 EA

DIAMETER	COARSE		MEDIUM		VERY FINE	
	TSM	TR	TSM	TR	TSM	TR
1 INCH	-	3M15393	-	3M15392	-	3M15391
1-1/2 INCH	3M25775	3M08764	3M25774	3M08765	3M25773	3M08766
2 INCH	3M25765	3M05528	3M25764	3M05527	3M25770	3M05523
3 INCH	3M25767	3M05532	3M25766	3M05531	3M25780	3M05530




3M SCOTCH-BRITE AL SURFACE CONDITIONING DISC

NON-WOVEN NYLON FIBERS BREAK DOWN GRADUALLY TO EXPOSE FRESH MINERAL, RESULTING IN CONSISTENT CUTTING ACTION, WHILE MAINTAINING PART GEOMETRY.

- USED FOR CLEANING, FINISHING, BLENDING AND DEBURRING WHILE RESISTING DISC LOADING
- OPEN WEB CONSTRUCTION RESPONDS TO SURFACE IRREGULARITIES AND CONTOURS
- ALUMINUM OXIDE MINERAL CUTS SHARP BUT FINISHES FINE

ORDER MULTIPLES OF 50 EA

DIAMETER	COARSE	MEDIUM	VERY FINE
	TSM	TSM	TSM
1-1/2 INCH	3M54149	3M54148	3M54147
2 INCH	3M54143	3M54142	3M54146
3 INCH	3M54145	3M54144	-



NORTON VORTEX RAPID PREP QUICK-CHANGE DISCS

REDUCE PROCESS TIMES BY 50+% BY ELIMINATING 2 TO 5 GRIT SEQUENCES TO 1 STEP IN YOUR TECHNICAL BLENDING OPERATIONS. PATENTED VORTEX ALUMINUM OXIDE GRAIN AND NEW COATING METHOD.

- COMBINE THE CUTTING SPEED WITH THE FINISH OF FINE GRITS
- MORE RESISTANT TO EDGE WEAR; UP 3X LIFE VS. COMPETITIVE PRODUCTS
- MOST CONSISTENT CUTTING AND FINISHING OF SURFACE CONDITIONING PRODUCTS ON THE MARKET

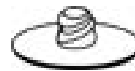
FRIABLE GRAIN STRUCTURE KEEPS RA SPECS THROUGHOUT DISC LIFE AND REDUCES SCRAP AND REWORK.

TS (TYPE II) GRADE	DIAMETER				
	3/4"	1"	1-1/2"	2"	3"
EXTRA COARSE	NOR35324	NOR25003	NOR25006	NOR35325	NOR25010
COARSE	NOR35410	NOR35537	NOR25017	NOR35413	NOR35416
MEDIUM	NOR35420	NOR35421	NOR35423	NOR35426	NOR35429
FINE	NOR25025	NOR25028	NOR25031	NOR25034	NOR25037
VERY FINE	NOR25043	NOR25046	NOR25049	NOR25052	NOR35436


TR (TYPE III) GRADE	DIAMETER				
	3/4"	1"	1-1/2"	2"	3"
EXTRA COARSE	NOR25001	NOR25004	NOR25007	NOR35326	NOR35327
COARSE	NOR25013	NOR25015	NOR35411	NOR35414	NOR35417
MEDIUM	NOR25020	NOR35422	NOR35424	NOR35427	NOR35430
FINE	NOR25026	NOR25029	NOR25032	NOR25035	NOR25038
VERY FINE	NOR25044	NOR25047	NOR25050	NOR35433	NOR35437



TS (TYPE II)
FEATURES A TURN-ON/TURN-OFF STYLE FASTENER
FASTENER IS MADE OF NYLON



TR (TYPE II)
FEATURES A ROLL-ON/ROLL-OFF STYLE FASTENER
FASTENER IS MADE OF NYLON



NORTON VORTEX RAPID BLEND QUICK-CHANGE DISCS

PATENTED VORTEX AGGLOMERATED ALUMINUM OXIDE GRAIN PROVIDES THE SUPERIOR CUTTING POWER OF A COARSER GRIT WITH THE FINISH OF FINER GRITS THAT RIVALS THE SMOOTHNESS OF FINE-GRIT.

- A GREAT CHOICE FOR WELD BLENDING, POLISHING AND DEBURRING TASKS
- CONTROLLED POROSITY DELIVERS COOLER AND IMPROVED CUT RATE
- SUPERIOR RESIN BOND FOR CONSISTENT PERFORMANCE WITH NO SMEARING

TS (TYPE II) GRADE	DIAMETER	
	2"	3"
MEDIUM	NOR97070	NOR97069



MERIT SURFACE PREP QUICK-CHANGE DISC

CLEAN BOND RESIN TECHNOLOGY IS DESIGNED TO CREATE SMEAR-FREE FINISHES.

GRADE	PART NUMBER	QUANTITY
EXTRA COARSE	ME67821	50
COARSE	ME66287	50
MEDIUM	ME40037	50
FINE	ME40075	50

















ARC SURFACE CONDITIONING QUICK-CHANGE DISC

FEATURES AN OPEN WEB STRUCTURE WHICH REDUCES LOADING AND CONFORMS TO THE SHAPE OF THE WORKPIECE.

- GENERAL PURPOSE USE ON ALL METALS
- COST EFFECTIVE CHOICE FOR CASUAL USERS
- REINFORCED BACKING ADDS STRENGTH AND DURABILITY

MADE IN THE USA

					
TSM					
DIAMETER	COARSE	MEDIUM	FINE	VERY FINE	ULTRA FINE
3/4"	ARC59201	ARC59202	ARC59205	ARC59203	-
1"	ARC59211	ARC59212	ARC59215	ARC59213	ARC59214
1-1/2"	ARC59221	ARC59222	ARC59225	ARC59223	ARC59226
2"	ARC59241	ARC59242	ARC59245	ARC59243	ARC59244
3"	ARC59361	ARC59262	ARC59265	ARC59263	ARC59264

					
TR					
DIAMETER	COARSE	MEDIUM	FINE	VERY FINE	ULTRA FINE
3/4"	ARC59301	ARC59302	ARC59305	ARC59303	-
1"	ARC59311	ARC59312	ARC59315	ARC59313	ARC59314
1-1/2"	ARC59321	ARC59322	ARC59325	ARC59323	ARC59324
2"	ARC59341	ARC59342	ARC59345	ARC59343	ARC59344
3"	ARC59361	ARC59362	ARC59365	ARC59363	ARC59364-1

DIAMETER	Quantity
3/4"	100
1"	100
1-1/2"	100
2"	50
3"	25

SELECTION CHART FOR NON-WOVEN AND COATED ABRASIVES

■ COATED ■ NON-WOVEN

GRADE	VERY COARSE				COARSE		MEDIUM		FINE		VERY FINE				EXTRA FINE			SUPER FINE			ULTRA FINE					
	16	24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600	800	1000	1200	1500	1800	2000
GRINDING																										
BLENDING																										
FINISHING																										
POLISHING																										



KLINGSPOR NON-WOVEN QDC QUICK DISC CONNECT

SIMPLY TWIST THE QDC A QUARTER TURN AND IT IS LOCKED IN PLACE AND READY TO SAND INTERNAL SURFACES, FLAT SURFACES AND HARD-TO-REACH AREAS WITH EASE.

- HIGH INITIAL CUT RATE AND LOWER CONFORMABILITY
- GENERAL PURPOSE BLENDING AND DEBURRING APPLICATIONS
- STIFF, CLOSED RESIN COATING

ORDER MULTIPLES OF 25 EA

	DIAMETER			
GRADE	1"	1-1/2"	2"	3"
COARSE	QDC1NWC	QDC112NWC	QDC2NWC	QDC3NWC
MEDIUM	QDC1NWM	QDC112NWM	QDC2NWM	QDC3NWM
VERY FINE	QDC1NWVF	QDC112NWVF	QDC2NWVF	QDC3NWVF

**MUST BE USED WITH KLINGSPOR'S STEEL MANDRELS*



KLINGSPOR QUICK DISC CONNECT STEEL MANDREL, 1/4" SHANK

DISC DIAMETER	PART NUMBER
1" and 1-1/2"	QDCS
2" and 3"	QDCL

ORDER IN QUANTITIES OF 1



1. Utilize a unique locking system that is quick and dependable.



2. The specially designed mandrel with a 1/4" shank has a "T" lock top that fits securely into a channel on the heat resistant QDC backing plate.



3. A simple 1/4 turn locks the mandrel in place.



STANDARD ABRASIVES SURFACE CONDITIONING BELTS

CONSTRUCTED OF RESIN-REINFORCED NON-WOVEN FIBER, THESE BELTS RESIST LOADING AND AVOID UNDER-CUTTING OR GOUGING OF THE WORK PIECE. EXHIBITS HIGH INITIAL AND EXTENDED RATES OF CUT.

- HIGH EDGE DURABILITY AND FLEXIBILITY
- EXCELLENT STARTING POINT FOR FINISHING STAINLESS STEEL TO A #4 FINISH
- DESIGNED FOR BLENDING, COATING REMOVAL, FINISHING, AND LIGHT DEBURRING

BEST MATERIAL FOR GENERAL USE AND AVERAGE PRESSURE USAGE

SIZE	COARSE	MEDIUM	VERY FINE
1/2 X 12"	SA888083	SA888082	SA888081
1/2 X 18"	SA888050	SA888049	SA888048
1/2 X 24"	SA888053	SA888052	SA888051
3/4 X 18"	SA888056	SA888055	SA888054
3/4 X 20-1/2"	SA888059	SA888058	SA888057

SURFACE CONDITIONING APPLICATION CHART

	DEBURRING	BLENDING	CLEANING	FINISHING
MORE AGGRESSIVE	COARSE	COARSE	COARSE	COARSE
RECOMMENDED STARTING POINT	MEDIUM	MEDIUM	MEDIUM	MEDIUM
LESS AGGRESSIVE	VERY FINE	VERY FINE	VERY FINE	VERY FINE



STANDARD ABRASIVES SURFACE CONDITIONING BANDS

THE MAXIMUM ALLOWABLE RPM FOR BANDS IS THE SAME AS THE MAXIMUM RPM OF THE RUBBER SANDING DRUM USED TO DRIVE THE BANDS, PROVIDED THE DRUM AND THE BAND ARE THE SAME NOMINAL DIAMETER.

- A HIGH RATE OF CUT THAT HELPS IT FINISH THESE SUBSTRATES SWIFTLY AND EFFICIENTLY
- OPEN WEB IS SPONGY AND RESPONSIVE, MINIMIZING GOUGING OF THE PART
- OPEN WEB IS LOAD RESISTANT, PROLONGING ABRASIVE SERVICE LIFE

SIZE	COARSE	MEDIUM	VERY FINE
1/2 X 1/2"	SA727117	SA727118	SA727119
1/2 X 1"	SA727083	SA727084	SA727085
1 X 1"	SA727086	SA727087	SA727088
1-1/2 X 1"	SA727089	SA727090	SA727091
1-1/2 X 1-1/2"	SA727092	SA727093	SA727094
2 X 1"	SA727095	SA727096	SA727097
2 X 2"	SA727098	SA727099	SA727100



SCOTCH-BRITE CLEAN AND STRIP XT PRO DISC

THE HIGH-STRENGTH FIBERS ARE HIGHLY COMFORTABLE, RESIST CHUNKING AND LOADING, AND PERFORM WELL ON THE EDGES OF A WORKPIECE WITHOUT SIGNIFICANTLY ALTERING THE BASE MATERIAL.

- QUICKLY REMOVES RUST, PAINT, MILL SCALE AND COATINGS FROM METAL
- HIGH-STRENGTH FIBER RESISTS CHUNKING AND PERFORMS WELL ON EDGES
- HIGH CONFORMABILITY PROVIDES A LARGER CONTACT PATCH FOR FASTER REMOVAL RATES

TYPE	SIZE	GRADE	QUANTITY	PART NUMBER
TN QUICK CHANGE	4-1/2" X 5/8-11	EXTRA COARSE	10	3M75464
TN QUICK CHANGE	7" X 5/8-11	EXTRA COARSE	5	3M75514



STANDARD ABRASIVES QUICK CHANGE BUFF AND BLEND GP DISC

MODERATELY AGGRESSIVE MATERIAL OFFERS GREAT VERSATILITY AND MAY BE USED FOR A VARIETY OF LIGHT-DUTY INDUSTRIAL APPLICATIONS, INCLUDING CLEANING AND DEBURRING.

- MULTI-PURPOSE ABRASIVE WORKS WELL ON MOST METALS
- TOUGH NYLON WEB CLEANS AND DEBURRS WITHOUT TEARING BUT LEAVES A PROFESSIONAL FINISH
- OPEN WEB IS LOAD RESISTANT, LIMITING BUILDUP OF DEBRIS AND PROLONGING SERVICE LIFE

A GOOD STARTING POINT FOR MANY DIFFERENT LIGHT-DUTY APPLICATIONS.

GRADE	SIZE		
	1-1/2"	2"	3"
MEDIUM	SA840212	SA840312	SA840412
FINE	SA840213	SA840313	SA840413
VERY FINE	-	SA840315	SA840415
QUANTITY	50	50	25
MAX. RPM	12,000	12,000	8,000



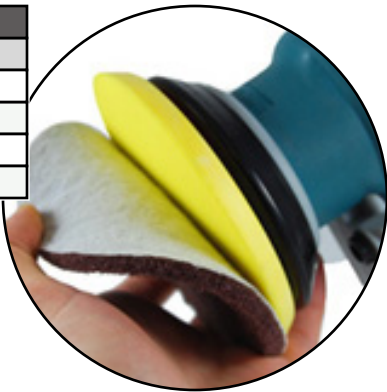
STANDARD ABRASIVES HOOK & LOOP BUFF AND BLEND GP DISC

MODERATELY AGGRESSIVE MATERIAL OFFERS GREAT VERSATILITY AND MAY BE USED FOR A VARIETY OF LIGHT-DUTY INDUSTRIAL APPLICATIONS, INCLUDING LIGHT OXIDATION REMOVAL, BLENDING, AND CLEAN-UP.

- DESIGNED FOR LESS AGGRESSIVE USE COMPARED WITH OTHER HP MATERIAL
- HOOK AND LOOP STYLE ATTACHMENT FOR RANDOM ORBITAL SANDING SYSTEMS
- MULTI-PURPOSE ABRASIVE DISCS WORK WELL ON MOST METALS

See page xxx for Hook & Loop Holder Pads

GRADE	SIZE	
	5" PLAIN	6" PLAIN
MEDIUM	SA831610	SA831710
VERY FINE	SA831608	SA831708
QUANTITY	10	10
MAX. RPM	10,000	10,000



STANDARD ABRASIVES BUFF & BLEND LARGER DIAMETER WITH CENTER HOLE ALUMINUM OXIDE

GRADE	SIZE		
	6 X 1/2"	8 X 1/2"	12 X 1-1/4"
MEDIUM	SA840710	SA840910	SA849130
FINE	SA840709	SA840909	SA849129
VERY FINE	SA840708	SA840908	SA849128
QUANTITY	10	10	5
MAX. RPM	3,600	2,700	1,800

BLENDING	CLEANING	DEBURRING	FINISHING
<ul style="list-style-type: none"> • Minor surface imperfections • Handling marks 	<ul style="list-style-type: none"> • Minor surface oxidation • Surface preparation • Removing rust 	<ul style="list-style-type: none"> • Parting lines from small castings • Small burrs from threaded pipe • Flash from plastic molded parts 	<ul style="list-style-type: none"> • Grain finishing after weld removal • Cosmetic finishing on aluminum castings



STANDARD ABRASIVES QUICK CHANGE BUFF AND BLEND HIGH STRENGTH DISC

HIGH STRENGTH NON-WOVEN NYLON MATERIAL MAINTAINS STIFFNESS AND WON'T TEAR OR FRAY WHEN FACED WITH CHALLENGING EDGE-WORK OR IRREGULAR SURFACES.

- THE BEST PERFORMANCE FOR CLEANING AND LIGHT DEBURRING WHILE ACHIEVING A FINAL FINISH
- PRODUCES A UNIFORM, CONSISTENT, SMEAR-FREE FINISH ON FERROUS AND NON-FERROUS METALS
- FLEXIBLE, PLIABLE OPEN WEB REMOVES BURRS AND SURFACE CONTAMINANTS WITHOUT GOUGING

GRADE	SIZE	
	2"	3"
COARSE (GREEN)	SA840314	SA840414
MEDIUM (BLUE)	SA840357	SA840457
VERY FINE (MAROON)	SA840322	-
QUANTITY	50	50
MAX. RPM	12,000	8,000

BLENDING

- EDGE DEBURRING ON ALUMINUM EXTRUSION
- DEBURRING ALUMINUM DIE CAST FLASHING

CLEANING

- REMOVING HEAVY SURFACE OXIDATION
- SURFACE PREPARATION PRIOR TO COATING

DEBURRING

- BLENDING MILL MARKS, TOOL MARKS AND MISMATCHES

STANDARD ABRASIVES BUFF & BLEND HIGH STRENGTH DISCS WITH CENTER HOLE

GRADE	SIZE		
	6 X 1/2"	8 X 1/2"	12 X 1-14"
COARSE (GREEN)	SA806706	SA860906	SA869126
MEDIUM (BLUE)	SA810710	SA810910	SA819130
VERY FINE (MAROON)	SA860708	SA860908	SA869128
QUANTITY	10	10	-
MAX. RPM	3,600	2,700	1,800

STANDARD ABRASIVES BUFF & BLEND HIGH STRENGTH MEDIUM TYPE F DISCS WITH CENTER HOLE

GRADE	SIZE		
	6 X 1/2"	8 X 1/2"	12 X 1-14"
MEDIUM (BLUE)	SA860710	SA860910	SA869130
MAX. RPM	3,600	2,700	1,800
QUANTITY	5	5	5

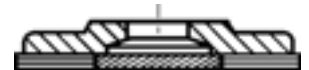


SAND-LIGHT™ FLAP DISCS - NON-WOVEN FLAP DISC

DESIGNED FOR SURFACE PREPARATION, CLEANING, AND FINISHING APPLICATIONS

- LAYERED FLAPS CREATE A THICK, CUSHIONED DESIGN WHICH PROVIDES A NICE FINISH

DIA	ARBOR	COLOR	GRADE	TYPE	MAX RPM	PART NUMBER
4-1/2"	7/8"	BROWN	COARSE	TYPE 27	13300	UNI71980
	7/8"	MAROON	MEDIUM	TYPE 27	13300	UNI71982
	7/8"	BLUE	VERY FINE	TYPE 27	13300	UNI71984
5"	7/8"	BROWN	COARSE	TYPE 27	12200	UNI71990
	7/8"	MAROON	MEDIUM	TYPE 27	12200	UNI71992
	7/8"	BLUE	VERY FINE	TYPE 27	12200	UNI71994



TYPE 27 (FLAT)

ORDER MULTIPLES OF 5 EA

APPLICATION:	BLENDING, FINISHING, GRINDING
METAL:	FERROUS METALS
STAINLESS:	STAINLESS STEEL, HIGH TENSILE STEEL
ALUMINUM:	NON-FERROUS METALS

ARC CLEANING & FINISHING QUICK-CHANGE DISC - FOR FINER FINISHING APPLICATIONS



FEATURES AN OPEN WEB STRUCTURE WHICH REDUCES LOADING AND CONFORMS TO THE SHAPE OF THE WORKPIECE.

TYPE	SIZE	QUANTITY	GRADE		
			MEDIUM	FINE	VERY FINE
	2"	50	ARC53343	ARC53344	ARC53345
	3"	25	ARC53346	ARC53347	ARC53348
	2"	50	ARC53376	ARC53377	ARC53378
	3"	25	ARC53379	ARC53380	ARC53381



STANDARD ABRASIVES BUFF AND BLEND GP WHEEL

A GOOD STARTING POINT FOR MANY DIFFERENT LIGHT-DUTY APPLICATIONS. DESIGNED TO LIGHTLY BLEND, CLEAN, DEBURR AND FINISH A VARIETY OF METALS USING THE EDGE OF THE WHEEL.

- FAST REMOVAL OF RUST, OXIDATION AND SCALE AND LEAVES A CONSISTENT FINISH

GRADE	2 INCH			3 INCH		
	1 PLY	2 PLY	3 PLY	1 PLY	2 PLY	3 PLY
MEDIUM	SA880213	SA880215	SA880216	SA880413	SA880415	SA880416
VERY FINE	SA880313	SA880315	SA880316	SA880513	SA880515	SA880516
MAX RPM	12,000	12,000	12,000	8,000	8,000	8,000
MINIMUM QTY	10	10	10	10	10	10

GRADE	4 INCH			5 INCH		
	1 PLY	2 PLY	3 PLY	1 PLY	2 PLY	3 PLY
MEDIUM	SA880613	SA880615	SA880616	-	SA880815	SA880816
VERY FINE	SA880713	SA880715	SA880716	SA880913	SA880915	SA880916
MAX RPM	6,000	6,000	6,000	4,000	4,000	4,000
MINIMUM QTY	5	5	5	5	5	5

STANDARD ABRASIVES BUFF AND BLEND HIGH STRENGTH WHEEL - 3" DIAMETER

GRADE	2 PLY	3 PLY
MEDIUM	SA880475	SA880476



STANDARD ABRASIVES BUFF AND BLEND COMBI-WHEEL

FEATURES ALTERNATING FLAPS OF BUFF AND BLEND NON-WOVEN GP MATERIAL AND COATED ABRASIVE RESIN BONDED MATERIAL. REMOVES CONTAMINANTS MORE AGGRESSIVELY THAN A NON-WOVEN BRUSH.

- BLENDS, CLEANS, AND FINISHES ON FERROUS AND NON-FERROUS MATERIALS
- ADDITION OF COATED FLAPS PRODUCES A SHARPER CUT THAN A COMPLETELY NON-WOVEN BRUSH

GRIT	GRAIN	GRADE	2 X 1 X 1/4"	3 X 1 X 1/4"	3 X 2 X 1/4"
60	A/O	MEDIUM	SA898000	SA898004	SA898008
80	A/O	MEDIUM	SA898001	SA898005	SA898009
80	S/C	VERY FINE	-	-	SA898015
120	A/O	VERY FINE	SA898002	SA898006	SA898010
180	A/O	VERY FINE	SA898003	SA898007	SA898011

STANDARD ABRASIVES BUFF AND BLEND GP MOUNTED FLAP BRUSH

SPECIFICATIONS	2 X 2 X 1/4"	3 X 2 X 1/4"
MEDIUM	SA875500	SA875510
COLOR	MAROON	MAROON
REC. RPM	15,000	12,000
MINIMUM PKG	10	5






STANDARD ABRASIVES BUFF AND BLEND CROSS BUFF

REMOVING SURFACE OXIDATION, RUST AND SURFACE COATINGS FOR PART INSPECTION; SURFACE PREPARATION PRIOR TO COATING; REMOVING CORROSION.

- IDEAL FOR POLISHING AND CLEANING HARD-TO-REACH AREAS
- UNIQUE SHAPE PROVIDES GREAT VERSATILITY IN A VARIETY OF APPLICATIONS
- MAY BE USED FOR DEBURRING ON ALUMINUM DIE CAST FLASHING

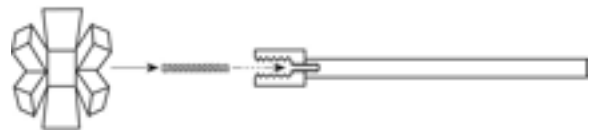
DIMENSIONS	EYELET	GRADE	COLOR	GRAIN	MAX RPM	PART NUMBER
3/4 X 3/8"	8-32	HS MEDIUM	BLUE	A/O	20,000	SA725019
	8-32	HP VERY FINE	MAROON	A/O	20,000	SA725011
1 X 3/8"	8-32	HS COARSE	GREEN	A/O	20,000	SA727334
	8-32	HS MEDIUM	BLUE	A/O	20,000	SA725007
	8-32	HP VERY FINE	MAROON	A/O	20,000	SA725008
1-1/2 X 1/2"	8-32	GP VERY FINE	GRAY	S/C	20,000	SA725000
	8-32	GP COARSE	BROWN	A/O	20,000	SA725004
	8-32	HS MEDIUM	BLUE	A/O	20,000	SA725012
	8-32	HP VERY FINE	MAROON	A/O	20,000	SA725013
	8-32	HS COARSE	GREEN	A/O	20,000	SA727333
	8-32	HS MEDIUM	BLUE	A/O	20,000	SA725005
	8-32	HP VERY FINE	MAROON	A/O	20,000	SA725006
2 X 1/2"	8-32	HS COARSE	GREEN	A/O	12,000	SA727395
	8-32	HS MEDIUM	BLUE	A/O	12,000	SA727396
	8-32	HP VERY FINE	RED	A/O	12,000	SA727397
2 X 3/4"	1/4-20	HS COARSE	GREEN	A/O	12,000	SA727398
	1/4-20	HS MEDIUM	BLUE	A/O	12,000	SA727399
	1/4-20	HP VERY FINE	RED	A/O	12,000	SA727400
3 X 3/4"	1/4-20	HS COARSE	GREEN	A/O	8,000	SA727401
	1/4-20	HS MEDIUM	BLUE	A/O	8,000	SA727402
	1/4-20	HP VERY FINE	RED	A/O	8,000	SA727403

ORDER MULTIPLES OF 50 EA



MANDRELS FOR CROSS BUFFS AND COMBI-CROSS BUFFS

PART NUMBER	SIZE	SHANK DIAMETER	THREAD
SA269201	4" INCLUDES 8-32 M ADAPTER	1/4"	1/4-20
SA700143	3"	1/4"	8-32
SA707605	3"	1/4"	1/4-20



NON-WOVEN GRADE	COATED GRIT:						
	40	60	80	120	180	240	320
BLENDING OUT MEDIUM MACHINE MARKS		•	•				
PREPARING METAL FOR PAINTING			•				
BLENDING METAL SURFACE			•	•			
APPLYING LIGHT SCRATCH PATTERN			•	•	•		
FINE BLENDING AND CLEANING				•	•	•	
METAL FINISHING AND POLISHING						•	•

← COARSE (GRINDING) → FINE (FINISHING) →

WHEN CHOOSING THE RIGHT GRIT FOR THE APPLICATION, DON'T FORGET THAT THE LOWER THE GRIT NUMBER THE LARGER THE ABRASIVE GRAIN PARTICLES (COARSE GRIT), RESULTING IN A MORE AGGRESSIVE CUT AND COARSER FINISH.

DIAMOND PRODUCTS

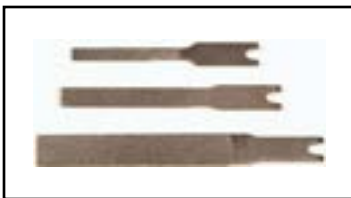


DIAMOND MACHINE FILES

FOR USE IN RECIPROCATING HAND PIECES.

- OUR MACHINE DIAMOND FILES ARE PRECISION MANUFACTURED WITH THE HIGHEST QUALITY DIAMOND

CROSS SECTION	DIMENSIONS	SHAPE	PART NUMBER
	1 X 2 X 50MM FLAT DIAMOND MACHINE FILE 150 GRIT - 1 SIDES	FLAT	DMF9928
	1 X 3 X 50MM FLAT DIAMOND MACHINE FILE 150 GRIT - 1 SIDES	FLAT	DMF9926
	1 X 4 X 50MM FLAT DIAMOND MACHINE FILE 150 GRIT - 1 SIDES	FLAT	DMF9929
	1.8 X 5 X 50MM FLAT DIAMOND MACHINE FILE 150 GRIT - 1 SIDES	FLAT	DMF9927
	2 X 5 X 50MM FLAT DIAMOND MACHINE FILE 150 GRIT - 1 SIDES	FLAT	DMF9930
	.8 X 3 X 50MM FLAT DIAMOND MACHINE FILE 150 GRIT - 2 SIDES	FLAT	DMF9933
	1 X 3 X 50MM FLAT DIAMOND MACHINE FILE 150 GRIT - 2 SIDES	FLAT	DMF9931
	1 X 3 X 50MM FLAT DIAMOND MACHINE FILE 150 GRIT - 2 SIDES	FLAT	DMF9932
	2 X 5 X 50MM FLAT DIAMOND MACHINE FILE 150 GRIT - 2 SIDES	FLAT	DMF9934
	1.4 X 3 X 50MM FLAT DIAMOND MACHINE FILE 150 GRIT - 4 SIDES	FLAT	DMF9935
	1.4 X 5.6 X 50MM FLAT DIAMOND MACHINE FILE 150 GRIT - 4 SIDES	FLAT	DMF9936
	2 X 2 X 50MM FLAT DIAMOND MACHINE FILE 150 GRIT - 4 SIDES	FLAT	DMF9944
	3 X 3 X 50MM FLAT DIAMOND MACHINE FILE 150 GRIT - 4 SIDES	FLAT	DMF9945
	2 X 50MM TRIANGLE DIAMOND MACHINE FILE 150 GRIT - 3 SIDES	TRIANGLE	DMF9946
	3 X 50MM TRIANGLE DIAMOND MACHINE FILE 150 GRIT - 3 SIDES	TRIANGLE	DMF9947
	4 X 50MM TRIANGLE DIAMOND MACHINE FILE 150 GRIT - 3 SIDES	TRIANGLE	DMF9948
	1 X 50MM TRIANGLE DIAMOND MACHINE FILE 150 GRIT - 3 SIDES	TRIANGLE	DMF9950
	1 X 50MM HALF-ROUND DIAMOND MACHINE FILE 150 GRIT	HALF ROUND	DMF9937
	1.5 X 50MM HALF-ROUND DIAMOND MACHINE FILE 150 GRIT	HALF ROUND	DMF9938
	2 X 50MM HALF-ROUND DIAMOND MACHINE FILE 150 GRIT	HALF ROUND	DMF9939
	2.3 X 3.5 X 50MM ECLIPSE DIAMOND MACHINE FILE 150 GRIT	ECLIPSE	DMF9949
	1 X 50MM ROUND DIAMOND MACHINE FILE 150 GRIT	ROUND	DMF9940
	2 X 50MM ROUND DIAMOND MACHINE FILE 150 GRIT	ROUND	DMF9941
	3 X 50MM ROUND DIAMOND MACHINE FILE 150 GRIT	ROUND	DMF9942
	4 X 50MM ROUND DIAMOND MACHINE FILE 150 GRIT	ROUND	DMF9943
SET OF 5 FILES - ONE OF EACH: DMF141, DMF241, DMF344, DMF43216, DMF53535			DMFT5SET



DIAMOND TIPPED NOTCHED LAPPER FILES

DESIGNED FOR TURBO-LAP AND ULTRA-LAP PROFILERS

- NOTCH FITS CLOSE TO SET SCREW TO KEEP THE FILE IN A SECURE POSITION.

WIDTH	GRIT	DIAMOND COATED SIDES	PART NUMBER
1/4"	120	2	DFN14120
1/4"	120	1	DFN14120-1S
1/4"	150	2	DFN14150
1/4"	200	2	DFN14200
1/4"	200	1	DFN14200-1S
3/8"	120	2	DFN38120
3/8"	150	2	DFN38150
3/8"	200	2	DFN38200
5/32"	120	2	DFN532120
5/32"	150	2	DFN532150
5/32"	200	2	DFN532200

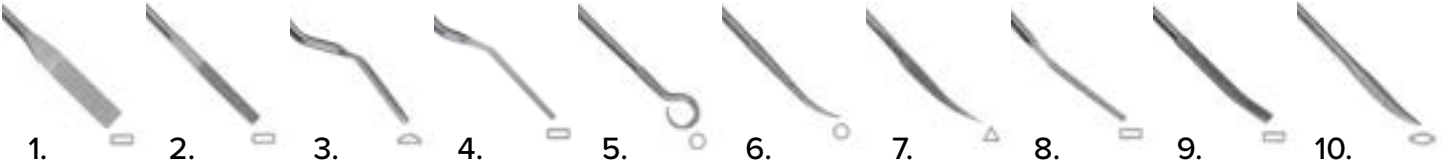


DIAMOND MACHINE RIFFLER FILES

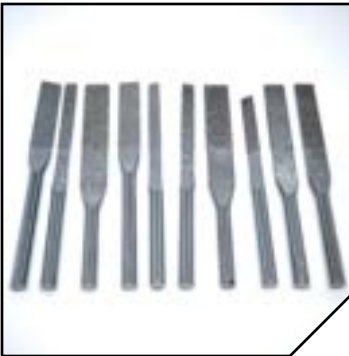
DIAMOND COATED, HIGH QUALITY RIFFLER FILES MAKE REACHING DIFFICULT AREAS EASY AND PROVIDE AN EXCELLENT FINISH.

- USED IN RECIPROCATING HANDPIECES

SOLD INDIVIDUALLY OR IN A MONEY-SAVING SET OF 10 DIFFERENT SHAPES



#	PROFILE	GRIT	SHANK	CROSS SECTION	PART NUMBER
1	LARGE RECTANGULAR	150	1/8"	1/4 X 3/64"	DMRF901
2	MEDIUM RECTANGULAR	150	1/8"	1/8 X 3/64"	DMRF902
3	HALF ROUND	150	1/8"	15/16 X 3/32"	DMRF903
4	MEDIUM RECTANGULAR	150	1/8"	1/8 X 3/64"	DMRF904
5	ROUND	150	1/8"	7/64"	DMRF905
6	ROUND	150	1/8"	7/64"	DMRF906
7	TRIANGULAR	150	1/8"	3/32"	DMRF907
8	MEDIUM RECTANGULAR	150	1/8"	1/8 X 3/64"	DMRF908
9	MEDIUM RECTANGULAR	150	1/8"	1/8 X 3/64"	DMRF909
10	OVAL	150	1/8"	5/32 X 3/32"	DMRF910
COMPLETE ASSORTMENT OF ALL 10 FILES LISTED ABOVE					DMRF10SET



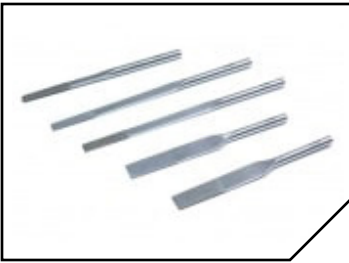
"EXTRA THIN" DIAMOND FILES - FLAT

"EXTRA THIN" DIAMOND FILES ARE FLAT AND HAVE A RECTANGULAR SHAPE, IDEAL FOR NARROW SLOTS UP TO ONE INCH DEEP.

- .7MM OR .030" THICK DIAMOND FILES
- USED BY HAND OR WITH A FILING MACHINE
- IDEAL FOR REMOVING COARSE EDM SURFACES, WELD MARK, ETC.

SOLD INDIVIDUALLY OR IN A MONEY-SAVING SET OF 10 DIFFERENT SHAPES

OVERALL LENGTH	GRIT	DIAMOND COATING	CROSS SECTION	PART NUMBER
2-1/4"	150	3/4" (ONE SIDED)	1/32 X 13/64"	DFT151364-1
2"	150	5/8" (TWO SIDED)	1/32 X 1/8"	DFT1518
2-1/4"	150	3/4" (TWO SIDED)	1/32 X 13/64"	DFT151364
2-1/4"	150	3/4" (TWO SIDED)	1/32 X 1/8"	DFT1518
2-1/4"	150	3/4" (TWO SIDED)	1/32 X 1/4"	DFT1514
2-1/4"	200	3/4" (TWO SIDED)	1/32 X 1/4"	DFT2014
2-1/4"	200	3/4" (TWO SIDED)	1/32 X 13/64"	DFT201364
2-1/4"	200	3/4" (TWO SIDED)	1/32 X 1/8"	DFT2018
2-1/4"	300	3/4" (TWO SIDED)	1/32 X 13/64"	DFT301364
2-1/4"	300	3/4" (TWO SIDED)	1/32 X 1/8"	DFT3018
COMPLETE ASSORTMENT OF ALL 10 FILES LISTED ABOVE				DFTHINSET



DIAMOND FILES – TAPERED – SHORT 3MM SHANK

FOR USE WITH PROFILERS AND TURBO-LAPS

- DIAMOND FILES SUITABLE FOR USE WITH PROFILERS FOR PRECISION FILING OF MOLDS AND DIES.

OVERALL LENGTH	GRIT	WIDTH	DIAMOND COATING	THICKNESS	PART NUMBER
2-1/4" (56MM)	200	1/4" (6MM)	5/8"	.040 X .018"	DFTS6562
3-5/8" (90MM)	200	1/16" (2MM)	1-1/4"	.040 X .018"	DFTS2902
3-5/8" (90MM)	200	5/32" (4MM)	1-1/4"	.040 X .018"	DFTS4902
3-5/8" (90MM)	200	1/4" (6MM)	1-1/4"	.040 X .018"	DFTS6902
2-1/4" (56MM)	120	1/4" (6MM)	5/8"	.040 X .018"	DFTS65612
3-5/8" (90MM)	120	1/16" (2MM)	1-1/4"	.040 X .018"	DFTS29012
3-5/8" (90MM)	120	5/32" (4MM)	1-1/4"	.040 X .018"	DRF5155
3-5/8" (90MM)	120	1/4" (6MM)	1-1/4"	.040 X .018"	DRF6155
ASSORTMENT OF 5 FILES: 1- DFTS29012, 2- DFTS49012, 2-DFTS69012					DRF5155



TAPERED DIAMOND PLATED FILES

THESE ARE HANDY TOP QUALITY DIAMOND NEEDLE FILES.

- PERMIT FILING SLOTS OR RIBS AS NARROW AS 20 THOUSANDTHS OF AN INCH!

SOLD INDIVIDUALLY OR IN A MONEY-SAVING SET OF 10

OVERALL LENGTH	DIAMOND COATING	WIDTH	THICKNESS	GRIT	PART NUMBER
6-1/2"	2"	1/8"	.080 X .020"	80	DFCC12580
6-1/2"	2"	1/8"	.080 X .020"	120	DFC12580
6-1/2"	2"	1/8"	.080 X .020"	240	DFM12580
6-1/2"	2"	1/8"	.080 X .020"	320	DFF12580
6-1/2"	2"	5/32"	.080 X .020"	120	DFC165125
6-1/2"	2"	5/32"	.080 X .020"	240	DFM165125
6-1/2"	2"	5/32"	.080 X .020"	320	DFF165125
6-1/2"	2"	1/4"	.080 X .020"	80	DFCC250250
6-1/2"	2"	1/4"	.080 X .020"	120	DFC250250
6-1/2"	2"	1/4"	.080 X .020"	240	DFM250250
6-1/2"	2"	1/4"	.080 X .020"	320	DFF250250
6-1/2"	2"	3/8"	.080 X .020"	80	DFCC318318
6-1/2"	2"	3/8"	.080 X .020"	120	DFC318318
6-1/2"	2"	3/8"	.080 X .020"	240	DFM318318
6-1/2"	2"	3/8"	.080 X .020"	320	DFF318318
7"	2"	.400"	.110 X .030"	120	DFC400400
7"	2"	.400"	.110 X .030"	240	DFM400400

FILES IN PRACTICAL SIZES: 2-DFC165125, 2-DFM165125, 2-DFM250250, 1-DFM12580, 1-DFF165125, 1-DFM318318, AND 1-DFF318318

DF1010SET



DIAMOND MINIATURE POINT BURS

IDEAL FOR THE PRECISE CUTTING AND FINISHING.

GRIT	SHANK	DESCRIPTION	PART NUMBER
120	3/32"	ASSORTMENT OF 20 MINIATURE BUR SHAPES	DP20120332
120	3MM	ASSORTMENT OF 20 MINIATURE BUR SHAPES	DP20120300
150	1/8"	ASSORTMENT OF 20 MINIATURE BUR SHAPES	DIAPTSET



DIAMOND NEEDLE FILES

DIAMOND NEEDLE FILES ARE DESIGNED FOR USE IN TOOL MAKING WHERE OTHER FILES FAIL DUE TO THE HARDNESS OF THE MATERIAL.

- APPLY ONLY SLIGHT PRESSURE TO THE FILE
- AVOID CONTACT WITH GREASE WHEN USING FILES
- OVERALL LENGTH: 5-1/2", DIAMOND COATING: 2-3/4", SHANK: 1/4"

	TYPE	CROSS SECTION	100 GRIT	150 GRIT	220 GRIT
	BARRETTE		DNF1611	DNF1612	DNF1613
	CROSSING		DNF1621	DNF1622	DNF1623
	EQUALING		DNF1541	DNF1542	DNF1543
	HALF-ROUND		DNF1601	DNF1602	DNF1603
	ROUND		DNF1591	DNF1592	DNF1593
	SQUARE		DNF1581	DNF1582	DNF1583
	THREE-SQUARE		DNF1571	DNF1572	DNF1573
	CROCHET		DNF1631	DNF1632	DNF1633
	WARDING		DNF1641	DNF1642	DNF1643
	KNIFE		DNF1551	DNF1552	DNF1553
	PIPPIN		DNF1651	DNF1652	DNF1653
	SLITTING		DNF1561	DNF1562	DNF1563



NEEDLE FILE HOLDER

PLASTIC HANDHELD NEEDLE FILE HOLDER. CLIPS AND HOLDS FILE FIRMLY IN PLACE.

PART NUMBER

NFH111



WOODEN FILE HOLDER

A DURABLE FILE HANDLE, PROVIDES STURDY SUPPORT WHILE FILING DOWN YOUR TOOLS AND ENSURE THAT YOUR TOOLS ARE SECURE.

FILE SIZE

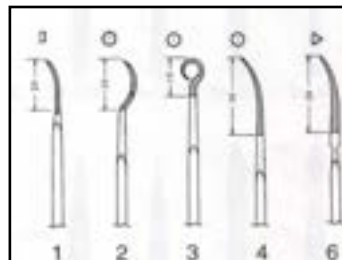
4 INCH FILES

6 INCH FILES

PART NUMBER

WF39100

WF39200



DIAMOND RIFFLER FILES

OVERALL LENGTH	GRIT	ILLUSTRATION	SHAPE	PROFILE	PART NUMBER
6-1/4"	150	1	SLIGHTLY BENT (SHORT)	RECTANGULAR	DRF1155
6-1/4"	150	2	CURVED (SHORT)	ROUND	DRF2155
6-1/4"	150	3	CIRCULAR	ROUND	DRF3155
6-1/4"	150	4	SLIGHTLY CURVED (LONG)	ROUND	DRF4155
6-1/4"	150	NOT SHOWN	SLIGHTLY BENT (SHORT)	3 SQUARE	DRF5155
6-1/4"	150	6	SLIGHTLY CURVED (LONG)	TRIANGULAR	DRF6155

SET OF 5 FILES (DRF1155, DRF2155, DRF3155, DRF4155, DRF6155)

DRF5SET



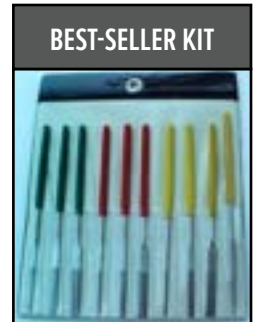
TAPERED DIAMOND PLATED NEEDLE FILES

THESE HANDY AND TOP QUALITY DIAMOND NEEDLE FILES MAKES REMOVAL OF EDM SCALE FROM TIGHT SLOTS AND RIBS EASIER.

- PERMIT FILING SLOTS OR RIBS AS NARROW AS 20 THOUSANDTHS OF AN INCH!
- HAS 3MM ROUND FILE HANDLE WITH REMOVABLE “GRIT TO COLOR” PLASTIC SLEEVE
- SUITABLE FOR USE BY HAND OR PROFILER

AVAILABLE INDIVIDUALLY OR IN A SET.

OVERALL LENGTH	DIAMOND COATING	WIDTH	THICKNESS	GRIT	COLOR	PART NUMBER
5-3/16"	1-3/16"	0.095"	.050 X .020"	150	GREEN	DFC095
5-3/16"	1-3/16"	0.095"	.050 X .020"	280	RED	DFM095
5-3/16"	1-3/16"	0.095"	.050 X .020"	400	YELLOW	DFF095
5-3/16"	1-3/16"	0.160"	.050 X .020"	80	BLACK	DFCC160
5-3/16"	1-3/16"	0.160"	.050 X .020"	150	GREEN	DFC160
5-3/16"	1-3/16"	0.160"	.050 X .020"	280	RED	DFM160
5-3/16"	1-3/16"	0.160"	.050 X .020"	400	YELLOW	DFF160
5-3/16"	1-3/16"	0.240"	.050 X .020"	80	BLACK	DFCC240
5-3/16"	1-3/16"	0.240"	.050 X .020"	150	GREEN	DFC240
5-3/16"	1-3/16"	0.240"	.050 X .020"	280	RED	DFM240
5-3/16"	1-3/16"	0.240"	.050 X .020"	400	YELLOW	DFF240
5-3/16"	1-3/16"	0.125"	.050 X .020"	400	YELLOW	DFF125R
SET – 10 PIECES, INCLUDES ONE OF EACH:DFC095, DFM095, DFF095, DFC160, DFM160, DFF160, DFC240, DFM240, DFF240, AND DFF125R						DFSET1010N



DIAMOND NEEDLE FILES - ULTRA THIN

ULTRA THIN DIAMOND FILES WORK GREAT IN THE MOST CONFINED RIBS, SLOTS AND OTHER HARD-TO-REACH AREAS.

OVERALL LENGTH	WIDTH	GRIT	PART NUMBER
7"	.025"	120	DNFC025-1S
7"	.025"	240	DNFM025-1S
7"	.030"	120	DNFC030-1S
7"	.030"	240	DNFM030-1S

DIAMOND FOIL – PSA STRIPS

FAST CUTTING PLATED DIAMOND FOIL IN 2" X 4" SHEETS.

THICKNESS	GRIT	PART NUMBER
ABOUT .031"	60	DFP060
ABOUT .010"	120	MD24120
ABOUT .010"	150	BOR95010
ABOUT .009"	200	MD24200
ABOUT .008"	400	BOR95030
ABOUT .008"	600	MD24600
ABOUT .005"	1000	DFP1000



DIAMOND CUTTING DISC

MAXIMUM SPEED RATING 20,000 RPM.

DIAMETER	THICKNESS	ARBOR HOLE	PART NUMBER
3/4"	.022	1/8"	COWD34

AMERICAN PATTERN FILES

FLAT



GENERAL PURPOSE "WORKHORSE" USED FOR RAPID STOCK REMOVAL. IT TAPERS IN WIDTH TOWARD THE POINT AND HAS CUT EDGES

LENGTH	BASTARD	2ND CUT	SMOOTH	LENGTH	BASTARD	2ND CUT	SMOOTH
4"	NI03367	NI03401	NI03434	10"	NI03665	NI03698	NI03731
6"	NI03467	NI03500	NI03533	12"	NI03764	NI03797	NI03830
8"	NI03566	NI03599	NI03632	14"	NI03863	NI03896	NI03929

HALF-ROUND



USED FOR FILING OUT CONCAVE SURFACES, CREVICES AND FOR ROUNDING OUT HOLES. REMOVES METAL RAPIDLY, LEAVING A SMOOTH FINISH.

LENGTH	BASTARD	2ND CUT	SMOOTH	LENGTH	BASTARD	2ND CUT	SMOOTH
4"	NI04695	NI04729	NI04762	10"	NI04995	NI05026	NI05059
6"	NI04795	NI04828	NI04861	12"	NI05094	NI05125	NI05158
8"	NI04896	NI04927	NI04960	14"	NI05194	NI05225	NI05258

KNIFE



SHAPED LIKE A KNIFE BLADE, USED ON SLOTS, KEYWAYS AND FOR ACUTE ANGLE WORK. SIDES ARE DOUBLE-CUT BUT THE BACK IS SAFE.

LENGTH	BASTARD	2ND CUT	SMOOTH	LENGTH	BASTARD	2ND CUT	SMOOTH
4"	NI04695	NI04729	NI04762	10"	NI04995	NI05026	NI05059
6"	NI04795	NI04828	NI04861	12"	NI05094	NI05125	NI05158
8"	NI04896	NI04927	NI04960	14"	NI05194	NI05225	NI05258

MILL



ONE OF THE MOST USED FILES, USED FOR GENERAL SHOP USE, AND SHARPENING. THIS FILE TAPERS SLIGHTLY IN WIDTH. SINGLE CUT.

LENGTH	BASTARD	2ND CUT	SMOOTH	LENGTH	BASTARD	2ND CUT	SMOOTH
4"	NI04695	NI04729	NI04762	10"	NI04995	NI05026	NI05059
6"	NI04795	NI04828	NI04861	12"	NI05094	NI05125	NI05158
8"	NI04896	NI04927	NI04960	14"	NI05194	NI05225	NI05258

ROUND



DESIGNED FOR ENLARGING CIRCULAR HOLES OR ROUNDED GROOVES. TAPERED TOWARD THE POINT. USE FOR VARIOUS SIZE HOLES.

LENGTH	BASTARD	2ND CUT	SMOOTH	LENGTH	BASTARD	2ND CUT	SMOOTH
4"	NI04695	NI04729	NI04762	10"	NI04995	NI05026	NI05059
6"	NI04795	NI04828	NI04861	12"	NI05094	NI05125	NI05158
8"	NI04896	NI04927	NI04960	14"	NI05194	NI05225	-

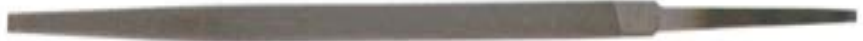
VIXEN-FLAT MILL



CURVED-TOOTH FLAT VIXENS ARE USED ON ALL TYPES OF WORK WHERE FAST FILING IS REQUIRED.

LENGTH	8"	10"
BASTARD	NI20239	NI20291

SQUARE



FOUR EQUAL SIDES, TAPERS TOWARD THE POINT. USED ON SLOTS, KEYWAYS, SPLINES, RECTANGULAR AS WELL AS SQUARE HOLES.

LENGTH	BASTARD	2ND CUT	SMOOTH	LENGTH	BASTARD	2ND CUT	SMOOTH
4"	NI12790	NI12824	NI12857	10"	NI13196	NI13229	NI13262
6"	NI12967	NI13000	NI13033	12"	NI13310	NI13343	NI13376
8"	NI13081	NI13114	NI13147	14"	NI13425	-	-

THREE SQUARE



TRIANGULAR SHAPE, 60 DEGREE ANGLES BETWEEN SIDES TAPERS TOWARDS THE POINT. FOR CLEANING CORNERS, FILING INTERNAL ANGLES.

LENGTH	BASTARD	2ND CUT	SMOOTH	LENGTH	BASTARD	2ND CUT	SMOOTH
4"	NI15803	-	NI15848	10"	NI16147	NI16180	NI16213
6"	NI15925	NI15958	NI15991	12"	NI16258	NI16291	NI16315
8"	NI16036	NI16069	NI16102	-	-	-	-



FILE CARD BRUSH

FINE WIRE FILE CARD FOR FAST AND EASY CLEANING OF CHIP-LOADED FILES. FEATURES STRONG WOODEN HANDLE WITH WEAR-RESISTANT STEEL WIRE FILING, AND SOFT NYLON BRISTLES.

PART NUMBER

WF17102



SWISS PATTERN NEEDLE FILES

PRECISION FILES FOR EXACTING WORK UNDER MAGNIFICATION.

- HIGHEST QUALITY STEEL, MACHINED AND FINISHED FOR PRECISION SHAPE, ACCURACY, AND BALANCE

SOLD BY THE DOZEN OR IN SETS




























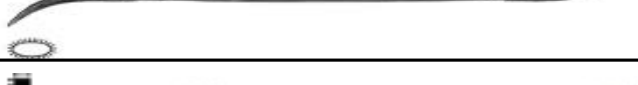




SWISS PATTERN NEEDLE FILES WITH ROUND KNURLED HANDLES

TYPE	DESCRIPTION	CROSS SECTION	0 CUT	2 CUT
	TAPERED IN WIDTH AND THICKNESS, COMING TO A POINT. ONLY FLAT SIDE IS CUT, PROVIDING SAFE EDGE AND TOP.		NF50B	NF52B
	HALF ROUND ON TWO SIDES, WITH ONE SIDE HAVING A LARGER RADIUS THAN THE OTHER. TAPERED IN WIDTH AND THICKNESS. CUT AND USABLE TO THE POINT.		NF50C	NF52C
	PARALLEL IN WIDTH AND THICKNESS. ALL SIDES CUT.		NF50E	NF52E
	TAPERED IN WIDTH AND THICKNESS, COMING TO A POINT. CUT ON BOTH SIDES.		NF50HR	NF52HR
	USED TO FILE IN A SLOT OR WEDGE SHAPED OPENING.		NF50K	NF52K
	GRADUALLY TAPERED AND CUT ON ALL FOUR SIDES.		NF50S	NF52S
	USED TO ENLARGE HOLES AND ROUND OUT CORNERS.		NF50R	NF52R
	FOR FILING ANGLES MORE ACUTE THAN 90 DEGREES, CLEANING OUT CORNERS, AND FILING TAPS AND CUTTERS.		NF503S	NF523S
	USEFUL IN REMOVAL OF BURS. PARALLEL IN THICKNESS AND TAPERED IN WIDTH.		NF50W	NF52W



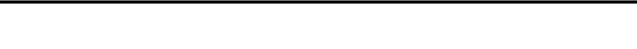


















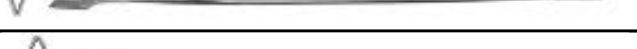





OVERALL LENGTH: 5-1/2"
CUT PORTION: 2-1/2"

SET OF 12 ASSORTED FILES - 0 CUT	NF50SET12	-
SET OF 12 ASSORTED FILES - 2 CUT	-	NF52SET12
SET OF 6 ASSORTED FILES - 2 CUT	-	NF52SET-6


















7" SILVERSMITHS' RIFFLER FILES

PICTURES		PART NUMBER		
		FILE #	0 CUT	2 CUT
		701	RF7010	RF7012
		710	GB31.830	RF7102
		711	GB31.794	GB31.795
		713	GB31.799	RF7132
		731	GB31.800	GB31.801
		732	GB31.802	GB31.803
		741	GB31.804	GB31.805
		750	GB31.806	GB31.807
		761	GB31.808	GB31.809
		764	RF7640	RF7642
		771	GB31.816	GB31.817
		781	GB31.818	GB31.819
		783	GB31.826	GB31.827
		790	RF7900	RF7902
		795	GB31.826	GB31.827
		143	GERMAN SHAPE & CUT	RF1432

6" DIE SINKERS' RIFFLER FILES

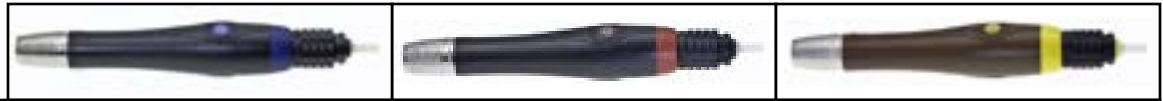
PICTURES	PART NUMBER		
	FILE #	0 CUT	2 CUT
	900	RF9000	RF9002
	901	GB31.838	GB31.839
	910	RF9100	RF9102
	911	GB31.850	GB31.851
	912	GB31.854	GB31.855
	913	GB31.858	GB31.859
	914	GB31.862	GB31.863
	915	GB31.865	GB31.866
	916	RF9160	RF9162
	917	GB31.869	GB31.870
	918	RF9180	GB31.873
	930	GB31.882	WF92930
	931	RF9310	RF9312
	941	RF9410	RF9412
	942	GB31.896	GB31.897
	943	RF9430	RF9432
	950	RF9500	RF9502
	951	GB31.903	GB31.904
	952	RF9520	GB31.907
	953	RF9530	RF9532
	954	RF9540	RF9542
	955	GB31.917	GB31.918
	956	GB31.921	GB31.922
	957	GB31.925	GB31.926
	958	RF9580	RF9582
	962	GB31.936	RF9622
	963	GB31.939	GB31.940

6" DIE SINKERS' RIFFLER FILES

PICTURES	PART NUMBER		
	FILE #	0 CUT	2 CUT
	964	GB31.943	GB31.944
	965	GB31.946	GB31.947
	970	GB31.951	GB31.952
	971	RF9710	RF9712
	972	GB31.958	GB31.959
	974	RF9740	RF9742
	975	GB31.696	RF9750
	981	GB31.972	GB31.973
	982	GB31.976	GB31.977
	983	GB31.979	GB31.980
	984	GB31.983	GB31.984
	985	GB31.968	GB31.987
	986	GB31.990	GB31.991
	988	RF9880	RF9882
	990	RF9900	RF9902
	995	RF9950	RF9952
	996	GB32.010	GB32.012

AIR PROFILERS - RECIPROCATING AIR FILES

THE PERFECT TOOLS FOR POLISHING FINE DETAIL AREAS, RIBS AND SLOTS. THESE TOOLS PROVIDE EXCELLENT PERFORMANCE. QUICKLY FILE, POLISH, HONE OR LAP RIBS, AND SLOTS



STROKE LENGTH	.3MM (.012")	.7MM (.027")	3MM LEFT TO RIGHT / 1.2MM LINEAR
STROKE PER MINUTE	52,000	28,000	12,000
PART NUMBER	TLL03	TLL07	TLS12

TURBO-LAP PROFILERS - LUBRICATION IS NOT NEEDED

TURBO-LAP PROFILERS SHOULD BE USED AT 90 PSI WITH CLEAN, DRY AIR. LUBRICATION IS NOT NEEDED. EXCELLENT PERFORMANCE WITH BORIDE POLISHING STONES.

	STROKE LENGTH	STROKE PER MINUTE	NOISE LEVEL	WEIGHT	PART NUMBER
	0.3MM (.012")	40,000	74DB	0.3858LB (175G)	UTR30
	0.7MM (.028")	35,000	84DB(A)	0.3858LB (175G)	UTR70
	1.2MM (.0478")	25,000	73DB	0.8730LB (396G)	UTR120
	3MM (.117")	10,000	73DB	0.8730LB (396G)	UTR300

ULTRA-LAP (U-LAP) PROFILERS - LUBRICATION IS NEEDED

ULTRA-LAP PROFILERS SHOULD BE USED AT A MAXIMUM OF 90 PSI WITH CLEAN, DRY AIR. LUBRICATION IS NEEDED. IDEAL FOR USE WITH CERAMIC SUPER STONES.

PROFILER REPAIR PARTS AVAILABLE

Stocked Repair Parts for Turbo-Lap and U-LAP Air Profilers

We keeps the most popular repair parts for our Turbo-Lap and U-LAP Air Profilers in stock and ready for immediate shipment when you need them.



3-IN-1 FILTER, REGULATOR AND LUBRICATOR
P/N: BORMFRL2G

This 3-in-1 filter, regulator and lubricator trio can be used with any air operated profilers.

PART NUMBER	DESCRIPTION
UTR70-27A	AIR HOSE SET U-LAP 70-27A
TL50032170	AIR HOSE - TURBOLAP
TL50030311	OVERHOSE - TURBOLAP
UTR70-26	OVERHOSE EXHAUST - U-LAP
UTR70-24	SWITCH BODY

4 OZ BOTTLES OF AIR TOOL / STONING OILS - GREAT FOR "ON THE BENCH" AVAILABILITY

Air Tool Oil for Profilers	DOTCO Air Tool Oil	Congress Oil - Special	Bori-Lube 10
P/N: ATL4	P/N: DATL4	P/N: CONOIL4	P/N: BORI4
<i>Light weight oil to keep your profilers in fine condition.</i>	<i>For Dotco and other heavy duty right angle and straight grinders.</i>	<i>Made to work with all polishing stones and Super Stones.</i>	<i>This polishing lubricant can be used with all polishing stones and Super Stones.</i>

DI-PRO RANGE OF LOW VIBRATION RECIPROCATING TOOLS

THE DI-PRO RANGE OF POLISHING/FILING MACHINES REPRESENTS A NEW COMMITMENT FROM DIPROFIL TO GREATER OPERATOR COMFORT AND SAFETY. THE DI-PRO SERIES HAS BEEN ENGINEERED WITH ENHANCED ERGONOMIC DESIGN TO GREATLY REDUCE VIBRATION LEVELS, WHILE AT THE SAME TIME PROVIDING ADEQUATE TORQUE AND RECIPROICATION LEVELS TO GET THE JOB DONE RIGHT. WITH DI-PRO YOU DON'T NEED TO SACRIFICE PERFORMANCE IN ORDER TO IMPROVE ERGONOMICS IN THE WORKPLACE!

CLASSIC TOOLS HAVE BEEN THE BENCHMARK OF QUALITY TOOLING TO MOLD AND DIE MAKING FOR MANY YEARS.

Each model is fit with an ergonomic rubber sleeve for maximum operator comfort! Each model is fit with an ergonomic rubber sleeve for maximum operator comfort!



	FPC/R	FPS/R	FXP/R	FPD/R	FPL/R
MOTOR	FLEXIBLE SHAFT WITH BALL JOINT			AIR	
DRIVER	KEY HOLE		SQUARE HOLE	LUBRICATED COMPRESSED AIR	
TOOL HOLDER	03.5MM	06.4MM	06.4MM	03.5MM	06.4MM
MAXIMUM STROKE LENGTH	0 - 6MM	0 - 6MM	0 - 6MM	0 - 6MM	0 - 6MM
RECOMMENDED STROKE LENGTH	0.5 - 3MM	0.5 - 3MM	0.5 - 3MM	0.5 - 3MM	0.5 - 3MM
MAXIMUM SPEED	8,000 RPM	8,000 RPM	8,000 RPM	8,000 RPM	8,000 RPM
RECOMMENDED SPEED	5,000-7,000 RPM	5,000-7,000 RPM	5,000-7,000 RPM	5,000-7,000 RPM	5,000-7,000 RPM
WEIGHT	585 - 615 G	585 - 615 G	585 - 615 G	750 - 780 G	750 - 780 G
NOISE	<70 DBA @ 6,000 RPM				
VIBRATION	3 - 10 M/S2	4 - 12 M/S2	4 - 12 M/S2	3 - 10 M/S2	4 - 12 M/S2

FREQUENCY WEIGHED HAND/ARM VIBRATION PRINCIPALLY IN ACCORDANCE WITH ISO 28927-8.

PLEASE NOTE:

FPD/R AND FPL/R AIR-DRIVEN TOOLS REQUIRE A QUICK COUPLING (HSLM) AS WELL AS A MFB DIPRO-FOG LUBRICATOR. THE AIR MOTORS ARE MANUFACTURED TO A PRECISE LEVEL OF ACCURACY AND REQUIRE LUBRICATED AND FILTERED AIR (TO 5 MICRONS) TO ASSURE TROUBLE FREE OPERATION.

BY FILTERING AND LUBRICATING THE COMPRESSED AIR, THE LIFETIME OF THE MACHINES IS PROLONGED.



**PART NUMBER
ENMFB**





**PART NUMBER
ENHSLM**


DOTCO POWER TOOLS - GRINDING, SANDING, AND POLISHING TOOLS


DOTCO IS THE STANDARD FOR DEPENDABLE, POWERFUL GRINDERS FOR METAL FINISHERS. KNOWN FOR THEIR DURABILITY, DEPENDABILITY, AND VERSATILITY, DOTCO IS VIEWED AS THE PREMIER LINE OF MATERIAL REMOVAL AND ASSEMBLY TOOLS IN THE INDUSTRIAL MARKETPLACE.


IDEAL FOR DIE AND MOLD WORK AS WELL AS DEBURRING AND METAL REMOVAL.


 <p>DOTCO</p>	METAL BODY INLINE GRINDER						
	MODEL	RPM	EXHAUST	COLLET SIZE	WEIGHT	LENGTH	H.P.
	DOT10L1081-36	34,000	REAR	1/4"	0.7 LB	4.6"	0.3


 <p>DOTCO</p>	METAL BODY TURBINE GRINDER						
	MODEL	RPM	EXHAUST	COLLET SIZE	WEIGHT	LENGTH	H.P.
	DOT10R9000-08	100,000	Front	1/8"	0.5 lb	5.4"	0.6


 <p>DOTCO</p>	METAL BODY PENCIL GRINDER						
	MODEL	RPM	COLLET GUARD	COLLET SIZE	WEIGHT	LENGTH	H.P.
	DOT10R0400-18	60,000	NO	1/8"	0.28 LB	5.8"	0.1
	DOT10R0401-18	60,000	YES	1/8"	0.28 LB	5.8"	0.1


 <p>DOTCO</p>	ERGO BODY PENCIL GRINDER						
	MODEL	RPM	COLLET GUARD	COLLET SIZE	WEIGHT	LENGTH	H.P.
	DOT12R0400-18	60,000	NO	1/8"	0.28 LB	5.8"	0.1
	DOT12R0401-18	60,000	YES	1/8"	0.28 LB	5.8"	0.1


 <p>DOTCO</p>	ERGO BODY RIGHT ANGLE PENCIL GRINDER						
	MODEL	RPM	COLLET GUARD	COLLET SIZE	WEIGHT	LENGTH	H.P.
	DOT12R0380-18	80,000	NO	1/8"	0.3 LB	5.8"	0.1


 <p>DOTCO</p>	ERGO BODY IN-LINE GRINDERS 0.3HP, 0.6 HP, AND 0.9HP						
	MODEL	RPM	EXHAUST	COLLET SIZE	WEIGHT	LENGTH	H.P.
	DOT12L1001-36	34,000	FRONT	1/4"	0.84 LB	6"	0.3
	DOT12L1081-36	34,000	REAR	1/4"	0.84 LB	6"	0.3
	DOT12L1000-36	30,000	FRONT	1/4"	0.84 LB	6"	0.3
	DOT12L1080-36	30,000	REAR	1/4"	0.84 LB	6"	0.3
	DOT12L2000-01	25,000	FRONT	1/4"	1.35 LB	6.9"	0.6
	DOT12L2080-01	25,000	REAR	1/4"	1.35 LB	6.9"	0.6
	DOT12L2000-36	25,000	FRONT	1/4"	1.4 LB	7.5"	0.6
	DOT12L2001-01	20,000	FRONT	1/4"	1.35 LB	6.9"	0.6
	DOT12L2500-01	23,000	FRONT	1/4"	1.84 LB	7.25"	0.9
	DOT12L2580-01	23,000	REAR	1/4"	1.84 LB	7.2"	0.9

 <p>DOTCO</p>	ERGO RIGHT ANGLE GRINDERS 0.9HP						
	MODEL	RPM	EXHAUST	COLLET SIZE	WEIGHT	LENGTH	H.P.
	DOT12L2718-36	18,000	REAR	1/4"	2.3 LB	10.5"	0.9

 DOTCO	ERGO BODY RIGHT ANGLE GRINDERS 0.4HP & 0.6 HP						
	MODEL	RPM	EXHAUST	COLLET SIZE	WEIGHT	LENGTH	H.P.
	DOT12LF200-36	12,000	FRONT	1/4"	1.1 LB	6.6"	0.4
	DOT12LF201-36	20,000	FRONT	1/4"	1.1 LB	6.6"	0.4
	DOT12LF280-36	12,000	REAR	1/4"	1.1 LB	6.6"	0.4
	DOT12LF281-36	20,000	REAR	1/4"	1.1 LB	6.6"	0.4
DOT12L2218-36	18,000	REAR	1/4"	1.7 LB	7.5"	0.6	





 DOTCO	ERGO BODY 3" EXTENSION GRINDERS .3HP						
	MODEL	RPM	EXHAUST	COLLET SIZE	WEIGHT	LENGTH	H.P.
	DOT12L1100-36	28,000	FRONT	1/4"	1.1 LB	8.9"	0.3
DOT12L1180-36	28,000	REAR	1/4"	1.1 LB	8.9"	0.3	

 DOTCO	ERGO 5" EXTENSION GRINDERS 0.3HP & 0.6HP						
	MODEL	RPM	EXHAUST	COLLET SIZE	WEIGHT	LENGTH	H.P.
	DOT12L1101-36	28,000	FRONT	1/4"	1.3 LB	10.9"	0.3
	DOT12L1181-36	28,000	REAR	1/4"	1.3 LB	10.9"	0.3
	DOT12L2180-01	25,000	REAR	1/4"	2.7 LB	12.5"	0.6
DOT12L2680-01	22,000	REAR	1/4"	2.9 LB	12.9"	0.9	

 DOTCO	ERGO .9 HP FRONT EXHAUST RIGHT ANGLE SANDER						
	MODEL	RPM	ABRASIVE CAPACITY	COLLET SIZE	WEIGHT	LENGTH	H.P.
	DOT12L2751-80	9,000	5"	5/8-11"	3.4 LB	9.8"	0.9
DOT12L2750-80	6,000	7"	5/8-11"	3.4 LB	9.8"	0.9	

	LOOKING FOR PARTS AND GENERAL ACCESSORIES?	
	WE KEEP A LARGE INVENTORY OF DOTCO PARTS IN STOCK.	


WE KEEPS THE MOST POPULAR REPAIR PARTS FOR DOTCO ON OUR WEBSITE.

DESCRIPTION	DETAILS	PART NUMBER
	1/8"	DOT100
	3/32"	DOT102
	3MM	DOT131
	1/8"	DOT204
	1/4"	DOT208
	3/8"	DOT212
	1/8"	DOT304
	3/16"	DOT306
	1/4"	DOT308
	1/4" TO 1/8"	DOTA42

AIR LINE FILTER-LUBRICATION - AN EXCELLENT LUBRICANT FOR ALL PNEUMATIC TOOLS.		
SIZE	DESCRIPTION	PART NUMBER
QUART CONTAINER	LUBRICATING OIL - QUART	DOT450918
GALLON CONTAINER	LUBRICATING OIL - GALLON	DOT450919

GEAR LUBE	
PART NUMBER	
DOT450980	

GREASE GUN	
DESCRIPTION	PART NUMBER
PLASTIC - PUSH TYPE	DOT451982
PLASTIC BODY WITH METAL TIP	DOT451992

DESCRIPTION	DETAILS	PART NUMBER
	DOTCO PENCIL GRINDER FLEXIBLE AIR HOSE	HOSE I.D. 1/4" LENGTH: 5'
	TURBINE FLEXIBLE AIR HOSE	HOSE I.D. 3/16" LENGTH: 7'
	FLEXIBLE AIR HOSE	HOSE I.D. 3/16" LENGTH: 8' - FITTING 1/4" X 1/4"
	FLEXIBLE AIR HOSE	HOSE I.D. 1/4" LENGTH: 8' - FITTING 1/4" X 1/8"
	OVERHOSE	OVERHOSE 1FT METAL PENCIL GRINDER
		DOT450948
		DOT451307
		DOT451408
		DOT451409
		DOT450945



DYNABRADE PRODUCT LINE

AIR TOOLS FOR THE METALWORKING INDUSTRY



DYNAFIL - ABRASIVE BELT TOOL

MODEL	H.P.	RPM	BELT SIZE	MAX SFPM	WEIGHT	LENGTH
DYN14000	0.5	20,000	1/8-1/2" W X 24" L	5,800	3.1 LB	14.6"



DYNAFIL II - ABRASIVE BELT TOOL

MODEL	H.P.	RPM	BELT SIZE	MAX SFPM	WEIGHT	LENGTH
DYN40320	0.5	20,000	1/8-3/4" W X 18" L	4,550	2.5 LB	14.25"
DYN40335	0.5	20,000	1/8-1/2" W X 18" L	4,550	2.5 LB	14.25"
DYN40352	0.4	25,000	1/8-3/4" W X 18" L	5,730	1.9 LB	14"
DYN40353	0.4	25,000	1/8-3/4" W X 18" L	5,730	1.9 LB	14"

DYN40335 AND DYN40353 ARE NON-WOVEN



MINI DYNAFIL II - ABRASIVE BELT TOOL

MODEL	H.P.	RPM	BELT SIZE	MAX SFPM	WEIGHT	LENGTH
DYN15003	0.4	25,000	1/8-1/2" W X 12" L	4,890	1.8 LB	11.75"



DYNALOCKE DUAL-ACTION SANDER, NON-VACUUM

MODEL	H.P.	RPM	PAD	ORBIT	WEIGHT	LENGTH
DYN58430	0.45	12,000	5"	3/16"	2.7 LB	11-1/16"
DYN58435	0.45	12,000	6"	3/16"	2.8 LB	11.5"



DYNORBITAL-SPIRIT RANDOM ORBITAL SANDER

MODEL	H.P.	RPM	PAD	ORBIT	WEIGHT	LENGTH
DYN59005	0.25	12,000	5"	3/8"	1.51 LB	6.5"
DYN59020	0.25	12,000	6"	3/16"	1.43 LB	6.5"
DYN59010	0.25	12,000	5"	3/8"	1.56 LB	7.0"
DYN59025	0.25	12,000	6"	3/16"	1.45 LB	7.0"



DYNORBITAL EXTREME RANDOM ORBITAL SANDER

MODEL	H.P.	RPM	PAD	ORBIT	WEIGHT	LENGTH
DYNX51	0.3	12,000	5"	3/16"	1.78 LB	6.9"



DYNORBITAL SUPREME RANDOM ORBITAL SANDER

MODEL	H.P.	RPM	PAD	ORBIT	WEIGHT	LENGTH
DYN56815	0.28	12,000	5"	3/16"	2.04 LB	6.5"




DYNABRADE VARIABLE SPEED PENCIL GRINDER


MODEL	H.P.	RPM	EXHAUST	AIR INLET	COLLET SIZE	WEIGHT	LENGTH
DYN52850	0.1	60,000	REAR	1/4"	1/8"	0.7 LB	4.25"





DYNABRADE TURBINE DRIVEN PENCIL GRINDER


MODEL	H.P.	RPM	EXHAUST	AIR INLET	COLLET SIZE	WEIGHT	LENGTH
DYN51700	0.1	60,000	REAR	1/4"	1/8"	0.64 LB	5.25"


	DYNABRADE STRAIGHT-LINE DIE GRINDER						
	MODEL	H.P.	RPM	EXHAUST	COLLET SIZE	WEIGHT	LENGTH
	DYN48325	0.4	25,000	REAR	1/4"	0.9 LB	6.5"
DYN48327	0.4	30,000	REAR	1/4"	0.9 LB	6.5"	


	DYNABRADE RIGHT ANGLE DIE GRINDER						
	MODEL	H.P.	RPM	EXHAUST	COLLET SIZE	WEIGHT	LENGTH
	DYN48317	0.4	20,000	REAR	1/4"	1 LB	6.5"


	DYNABRADE 7 DEGREE OFFSET DIE GRINDER						
	MODEL	H.P.	RPM	EXHAUST	COLLET SIZE	WEIGHT	LENGTH
	DYN48335	0.4	25,000	REAR	1/4"	1 LB	7.3"


	DYNABRADE 2" DISC SANDER - GEARLESS						
	MODEL	H.P.	RPM	EXHAUST	COLLET SIZE	WEIGHT	LENGTH
	DYN48503	0.4	25,000	REAR	1/4"	1.1 LB	7.2"

	DYNABRADE 3" DISC SANDER - GEARLESS						
	MODEL	H.P.	RPM	EXHAUST	COLLET SIZE	WEIGHT	LENGTH
	DYN52415	0.4	25,000	REAR	1/4"	2.3 LB	8-1/8"

	DYNABRADE DISC SANDER - GEARLESS						
	MODEL	H.P.	RPM	SPINDLE THREAD	EXHAUST	WEIGHT	LENGTH
	DYN52634 (4-1/2")	1.3	12,000	5/8"-11	REAR	4.4 LB	10"
DYN52635 (5")	1.3	12,000	5/8"-11	REAR	4.4 LB	10"	

	DYNABRADE DEPRESSED CENTER WHEEL GRINDERS						
	MODEL	H.P.	RPM	SPINDLE THREAD	EXHAUST	WEIGHT	LENGTH
	DYN52632 (4-1/2")	1.3	12,000	5/8"-11	REAR	5.4 LB	10"
DYN52633 (5")	1.3	12,000	5/8"-11	REAR	5.4 LB	10"	

	DYNADIE III AIR POWERED RECIPROCATING FILER						
	MODEL	H.P.	STROKE	STROKE	SHANKS	WEIGHT	LENGTH
	DYN12250	.2	0-1/4"	5000	1/8-1/4"	1.8 LB	6-5/8"

	DYNASWIVEL AIR LINE CONNECTORS						
	SWIVELS 360 DEGREES AT TWO PIVOT POINTS ALLOWING THE AIR HOSE TO DROP DIRECTLY TO THE FLOOR.						


COMPATIBLE WITH MOST AIR TOOLS MADE BY COMPETITORS. NEVER FIGHT AN AIR HOSE AGAIN.


	1/4" NPT COMPOSITE DYNASWIVEL	
	PART NUMBER	DYN94300


	1/4" NPT COMPOSITE-STYLE FLOW CONTROL DYNASWIVEL	
	PART NUMBER	DYN94407


	1/4" NPT ORIGINAL ALUMINUM DYNASWIVEL	
	PART NUMBER	DYN95460




	EAGLE 5" EXTENDED COMPOSITE DIE GRINDER						
	MODEL	H.P.	RPM	EXHAUST	COLLET SIZE	WEIGHT	LENGTH
	EG5207EC	0.6	25,000	REAR	1/4"	1.45 LB	6.55"


	EAGLE COMPOSITE DIE GRINDER						
	MODEL	H.P.	RPM	EXHAUST	COLLET SIZE	WEIGHT	LENGTH
	EG5200EC	0.6	22,000	REAR	1/4"	1.3 LB	6.55"


	EAGLE 90 DEGREE COMPOSITE DIE GRINDER						
	MODEL	H.P.	RPM	EXHAUST	COLLET SIZE	WEIGHT	LENGTH
	EG5202EC	0.6	20,000	REAR	1/4"	1.1 LB	6.25"


	NORTON PNEUMATIC MINI-ANGLE SANDER						
	MODEL	H.P.	RPM	EXHAUST	COLLET SIZE	WEIGHT	LENGTH
	NOR50076	0.45	18,000	REAR	1/4"	1.76 LB	7"


	GROBET PENCIL GRINDER						
	MODEL	H.P.	RPM	EXHAUST	COLLET SIZE	WEIGHT	LENGTH
	GB34.900	0.1	56,000	REAR	1/8"	1.40 LB	5.85"


	3M PNEUMATIC RANDOM ORBITAL SANDER					
	PART NUMBER	PAD DIA	MOTOR HP	MAX RPM	ORBIT	
	3M88937	5"	0.28	12,000	3/16"	


	PATCO RIGHT ANGLE COLLET GRINDERS GA-1340-C					
	PART NUMBER	H.P.	RPM	SPINDLE	WEIGHT	LENGTH
	PAGA1340C	.7	13,500	1/4"	2-3/4"	8"

	PATCO EXTENDED RIGHT ANGLE COLLET GRINDERS GAL-1340-C					
	PART NUMBER	H.P.	RPM	SPINDLE	WEIGHT	LENGTH
	PAGAL1350A-1	.7	13,500	1/4"	3-1/4"	10"

	PATCO DIE GRINDERS G-1340					
	PART NUMBER	H.P.	RPM	COLLET SIZE	WEIGHT	LENGTH
	PAG1340	.9	25,000	1/4"	2-1/4 LBS.	6-1/4"

	PATCO ROUTER GR-2510					
	PART NUMBER	H.P.	RPM	COLLET SIZE	WEIGHT	LENGTH
	PTGR2510	.9	25,000	1/4"	3-1/4 LBS.	6-1/4"

	PATCO RIGHT ANGLE WHEEL GRINDERS GA-1340					
	PART NUMBER	H.P.	RPM	WHEEL	WEIGHT	LENGTH
	PATGA1340	.7	13,500	4" TYPE 27	3-1/4 LBS.	8"

	PATCO EXTENDED RIGHT ANGLE WHEEL GRINDERS GAL-1340					
	PART NUMBER	H.P.	RPM	WHEEL	WEIGHT	LENGTH
	PAGAL1340AC	.7	13,500	4" TYPE 27	3-1/2"	10"



BURR KING MODEL 760 - THREE WHEEL BELT GRINDER

CONTACT WHEEL, PLATEN, WORK REST SUPPORT, AND LOOSE BELT GRINDING ARE PRECISION CONTROLLED WITH POSITIVE BELT TRACKING, QUICK BELT CHANGE, AND LINEAR BELT TENSION.

- MODEL 760 CAN BE PEDESTAL OR BENCH MOUNTED AND USES A STANDARD 60" BELT UP TO 2" WIDE
- CONSTRUCTED OF RUGGED CAST ALUMINUM AND PRECISION MACHINED COMPONENTS
- MODEL 760 DELIVERS UNEXCELLED GRINDING PERFORMANCE AND RELIABILITY



SHOWN WITH
AN OPTIONAL
PEDESTAL

PART NUMBER
BK77110

MODEL 760 BELT GRINDER SPECIFICATIONS

ABRASIVE BELT SIZE	1-1/2" OR 2" X 60"
HORSEPOWER	1.5 HP STANDARD - OPTIONAL UP TO 3 HP
VOLTAGE	120 VOLT SINGLE PHASE UP TO 575 3 PHASE
ABRASIVE BELT SPEED (UP TO)	8000 SFPM - FIXED OR VARIABLE SPEED AVAILABLE
THROAT CLEARANCE	8-7/8"
CONTACT WHEEL DIMENSIONS	7" X 1-1/2" OR 7" X 2"
CONTACT WHEEL HARDNESS	55 DUROMETER - OPTIONAL 20 & 90 DURO
BELT TENSION, QUICK CHANGE ASSEMBLY	YES
POSITIVE BELT TRACKING ADJUSTMENT	YES
OVERALL HEIGHT X WIDTH X DEPTH	26" X 24" X 23"
SAFETY BELT GUARD	YES
BASE AREA	10" X 13"
STEEL BACKUP PLATEN	2" X 6" X 1/4"
ADJUSTABLE WORK REST	YES
CONSTRUCTION	CAST ALUMINUM
ESTIMATED SHIPPING WEIGHT	105 - 135 LBS
BENCH OR PEDESTAL MOUNTED	YES - OPTIONAL - FIXED OR ADJUSTABLE HEIGHT

AIR TOOL REPAIR AND PARTS - 30 DAY WARRANTY

WE HAVE THE DOTCO PARTS YOU NEED TO REPAIR YOUR TOOL YOURSELF OR WE OFFER TOOL EVALUATIONS AND REPAIRS FROM EXPERIENCED TECHNICIANS.

ALL AIR POWERED TOOLS WILL EVENTUALLY EXPERIENCE WEAR AND TEAR. EVEN THE BEST TOOLS MADE REQUIRE MAINTENANCE. IF YOU CHOOSE TO DO YOUR OWN MAINTENANCE, YOU NEED TO KNOW HOW TO DISASSEMBLE, REPLACE PARTS, AND REASSEMBLE YOUR TOOL. WE ARE HAPPY TO PROVIDE YOU WITH ALL THE INFORMATION YOU MAY NEED REGARDING YOUR AIR TOOLS. APEX TOOL GROUP OWNS MANY OF THE BRANDS THAT WE ASSOCIATE WITH THE BEST QUALITY AIR TOOLS IN THE US MARKET. SEE BELOW TO FIND OUT HOW TO REPAIR YOUR APEX AIR TOOLS USING FREE INFORMATION FROM APEX TOOLS AND READILY AVAILABLE AIR TOOL REPAIR PARTS.

HOW TO REPAIR YOUR APEX AIR TOOLS

1. Go to www.ApexPowerTools.com.
2. On the top menu bar, click on Service & Support.
3. In the window, enter the First Five Numbers and Letters of your Apex (Dotco) Tool model number. The model number is imprinted on your Tool. Then click "Search."
4. A list of related air tools will be displayed. Click on the tool which matches your Complete Model Number.
5. Use the Service Manual for you particular pneumatic tool to diagnose your problem and determine which pneumatic tool parts need to be replaced.

TOOL REPAIR IS ALSO AVAILABLE FOR THESE MANUFACTURERS:

- AIR TURBINE
- BUCKEYE
- CLECO / DOTCO
- NITTO KHOKI
- NSK
- PATCO
- TURBOLAP
- ULTRALAP

PRECISION GAUGE REPAIR AND CALIBRATION

BORE GAUGES	TEST INDICATORS	HEIGHT GAUGES	V-BLOCK	THREAD RING GAUGES	ELECTRONIC INDICATORS
CALIPER GAUGES	MICROMETERS	HEIGHT MASTERS	DIAL INDICATORS	PRECISION AND MACHINE LEVELS	



NITTO KOHKI TOOLS

ERGONOMICALLY DESIGNED, PROFESSIONAL GRADE TOOLS TO INCREASE PRODUCTION



NITTO KOHKI BELTON B-10CL

ALL-AROUND VERSATILITY FOR GRINDING, SANDING AND POLISHING APPLICATIONS.

- GRINDING ARM EASILY ADJUSTS TO OPERATE IN ANY POSITION 0-360° (EXCEPT BB-10B)
- UNIQUE ROTOR AND VANE ASSEMBLY DELIVERS MAXIMUM POWER AND PERFORMANCE

IDEAL FOR SANDING AND GRINDING IN NARROW SPACES, RECESSED AREAS AND ON CURVED SURFACES

SPECIFICATIONS

AIR PRESSURE	AIR CONSUMPTION	RATED SPEED	BELT SPEED	BELT SIZE	HOSE SIZE	WEIGHT	PART NUMBER
85 PSI	14.2 CFM	17,000 RPM	3,674 FPM	3/8" X 13"	1/4"	2.0 LBS.	NKB10CL



NITTO KOHKI SUPER HAND SH-100A - STONE PROFILER

ELIMINATES TIME CONSUMING MANUAL STONING AND HAND-FILING OPERATIONS.

- IDEAL FOR STONING APPLICATIONS ON STEEL, ALUMINUM, BRASS, WOOD AND OTHER MATERIALS
- UNIQUE AND COMPACT DESIGN DELIVERS REDUCED VIBRATION PERFORMANCE WHILE REDUCING OPERATOR FATIGUE

FAST, EFFICIENT PROFILER FOR STONING OPERATIONS

SPECIFICATIONS

AIR PRESSURE	AIR CONSUMPTION	STROKE SPEED	STROKE LENGTH	FILE SHANK SIZE	WEIGHT	PART NUMBER
85 PSI	8.5 CFM	3,700 SPM	9MM	6.3MM	2.4 LBS.	NKSH100A



FOR STONES 1/4 X 1/4" - WITH 1/4" SHANK	SHA141414
FOR STONES 1/4 X 1/2" - WITH 1/4" SHANK	SHA141214
FOR STONES 1/2" X 1" - WITH 1/4" SHANK	SHA12114

STONE HOLDERS FOR HEAVY DUTY STOCK REMOVAL AND POLISHING.



NITTO KOHKI AL-55 - PNEUMATIC DIE GRINDER

SMOOTH HIGH SPEED ROTATION AND LOW VIBRATION ENABLES PRECISION GRINDING.

- STEP-LESS SPEED CHANGE FROM 0 TO 56,500 RPM MEETS A WIDE RANGE OF GRINDING APPLICATIONS
- TRIANGULAR GRIP FITS OPERATOR'S HAND. SPECIAL PLASTIC GRIP PREVENTS COLD HANDS AND ABSORBS VIBRATION

COMPACT AND LIGHT WEIGHT FOR COMFORTABLE OPERATION OVER LONG PERIODS OF TIME

SPECIFICATIONS

AIR PRESSURE	AIR CONSUMPTION	FREE SPEED	CHUCK SIZE	HOSE SIZE	WEIGHT	PART NUMBER
85 PSI	6.0 CFM	56,500 RPM	1/8"	1/4"	0.55 LBS.	NKAL55



NITTO KOHKI MYTON ANGLE SANDERS MYS-20

IDEAL FOR SANDING AND/OR POLISHING METAL, ALUMINUM, WOOD, PLASTIC AND MANY OTHER MATERIALS. GREAT POWER/WEIGHT RATIO.

- INSULATED HANDLE FOR OPERATOR COMFORT AND CONVENIENCE
- LOCKING THROTTLE LEVER HELPS PREVENT ACCIDENTAL START-UP
- USES QUICK CHANGE SANDING DISCS FOR QUICK INSTALLATION AND REMOVAL

COMPACT AND LIGHTWEIGHT DESIGN FOR WORKING IN CONFINED SPACES

PART NUMBER	NKMYS20
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AIR PRESSURE	AIR CONSUMPTION	FREE SPEED	DISC DIAMETER	CHUCK SIZE	HORSEPOWER	HOSE SIZE	WEIGHT
85 PSI	14.8 CFM	19,000 RPM	1", 1-1/2" OR 2"	1/4"	0.28 HP	1/4" ID	1.3 LBS.



NITTO KOHKI CB-01 CIRCUIT BEVELER

PNEUMATIC RADIAL CHAMFERING CIRCUIT BEVELER, 45 DEGREE CHAMFER ANGLE, 6.8MM MINIMUM HOLE DIAMETER.

IDEALLY SUITED FOR CHAMFERING MACHINE AND MOLD COMPONENT PARTS

PART NUMBER	NKCB01
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AIR PRESSURE: 85 PSI
 AIR CONSUMPTION: 5.3 CFM
 NO LOAD SPEED: 28,000 RPM
 WEIGHT: 1.1 LBS
 CHAMFERING CAPACITY (MILD STEEL):
 UP TO .039" (1 MM) CHAMFER
 CHAMFERING CAPACITY (STAINLESS STEEL):
 UP TO .020" (0.5 MM) CHAMFER

FEATURES

- CHAMFERS EXTERIOR AND/OR INTERIOR EDGES
- ONLY REQUIRES A 6.8 MM DIAMETER HOLE FOR CHAMFERING
- TWO 3-SIDED INDEXABLE INSERTS PROVIDES A SMOOTH, CHATTER FREE FINISH
- UNIQUELY DESIGNED TO CHAMFER CIRCULAR, ELLIPTICAL AND STRAIGHT LINE PROFILES
- LIGHTWEIGHT AND COMPACT FOR BEVELING AND CHAMFERING APPLICATIONS

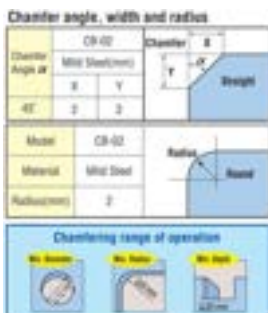


NITTO KOHKI CB-02 CIRCUIT BEVELER

PNEUMATIC RADIAL CHAMFERING TOOL. HAND BEVELER, IDEAL FOR EDGE BEVELING CIRCULAR, ELLIPTICAL AND STRAIGHT LINE PROFILES.

LIGHTWEIGHT AND COMPACT FOR MOST BEVELING AND CHAMFERING APPLICATIONS

PART NUMBER	NKCB02
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FEATURES

- UNIQUELY DESIGNED TO BEVEL CIRCULAR, ELLIPTICAL AND STRAIGHT LINE PROFILES
- BEVELS EXTERIOR AND/OR INTERIOR EDGES AND WIDTHS UP TO 5/64" AT 45°
- DEPTH GAUGE PROVIDED TO ACCURATELY SET BEVEL WIDTHS

AIR PRESSURE	AIR CONSUMPTION	CHAMFERING CAPACITY (MILD STEEL)	WEIGHT
85 PSI	41.1 CFM	UP TO 5/64" (2 MM) CHAMFER OR 1/16" (2 MM) RADIUS	1.3 LBS



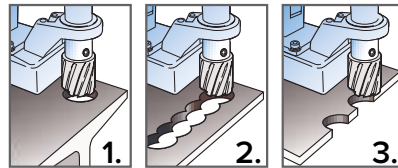
NITTO KOHKI UOJ-3500 - PORTABLE MAGNETIC DRILL

REVERSIBLE FEED SHAFT ASSEMBLY FOR LEFT OR RIGHT OPERATION.

- SEALED ARBOR WITH THROUGH SPINDLE COOLANT
- SELF CONTAINED IN-FRAME COOLANT RESERVOIR
- BUILT-IN MOTION SENSOR DETECTION SENSOR

PART NUMBER	NKUOJ3500
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DESIGNED TO USE JETBROACH CARBIDE TIPPED ANNULAR CUTTERS



1. CUTTING IN H-BEAMS
2. OVERLAPPED CUTTING
3. EDGE HOLE CUTTING

HOLE-CUTTING CAPACITY	
HOLE DIAMETER:	1-3/8" MAX
DEPTH OF CUT:	2" MAX

POWER SOURCE	NO LOAD SPEED	MAGNET DIMENSIONS	WEIGHT
110-120 V AC 50/60HZ	680 RPM	3-5/32" X 6-3/8"	31 LBS.



NITTO KOHKI WA-3500 - PORTABLE MAGNETIC DRILL

LOAD DETECTION SYSTEM MONITORS AND REGULATES MOTOR SPEED AND CUTTING FEED.

- SEMI-AUTOMATIC FEED MECHANISM
- OVERLOAD STOP DETECTION SYSTEM HELPS PREVENT MOTOR AND CUTTER DAMAGE
- PRECISION MACHINED DIE CAST ALUMINUM MAINFRAME, MOTOR SLIDE / ARBOR SUPPORT BRACKET

PART NUMBER	NKWA3500
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ADVANCED TECHNOLOGY REDUCING HOLE DRILLING COST



BEST MODEL FOR PRODUCTION HOLE DRILLING.

HOLE-CUTTING CAPACITY	
HOLE DIAMETER:	1-3/8" MAX
DEPTH OF CUT:	2" MAX

POWER SOURCE	NO LOAD SPEED	MAGNET DIMENSIONS	WEIGHT
110-120 V AC 50/60HZ	950 RPM	3-5/8" X 8-1/2"	44 LBS.
220-240 V AC 50/60HZ			



NITTO KOHKI QA-4000 - PORTABLE MAGNETIC DRILL

LOAD DETECTION SYSTEM MONITORS AND REGULATES MOTOR SPEED AND CUTTING FEED.

- FULLY AUTOMATIC FEED MECHANISM WITH POWER RETURN
- STEP FEED FEATURE OPTIMIZES CUTTER PENETRATION
- CHIP BREAKER PREVENTS SCHWARF AND CHIP NESTING

PART NUMBER	NKQA4000
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QUICK AUTO DRILLS INCREASE PRODUCTIVITY AND REDUCE HOLE DRILLING COST



HOLE-CUTTING CAPACITY	
HOLE DIAMETER:	1-9/16" MAX
DEPTH OF CUT:	1-3/8" MAX

POWER SOURCE	NO LOAD SPEED	MAGNET DIMENSIONS	WEIGHT
110-120 V AC 50/60HZ	750 RPM	3-1/4" X 6-13/16"	41 LBS.



NSK AMERICA CORPORATION - MEETING THE INDUSTRY'S DEMAND FOR SPEED AND PRECISION

MACHINE TOOL SPINDLES AND HAND TOOLS ARE ENGINEERED TO MEET THE INDUSTRY'S DEMAND FOR SPEED AND PRECISION. WE OFFER THE LATEST TECHNOLOGY IN HIGH SPEED MILLING AND DRILLING SPINDLES, HIGH SPEED PRECISION HAND TOOLS AND MORE.

PREMIUM HIGH-SPEED ELECTRIC AND PNEUMATIC SPINDLES AND MICRO GRINDERS



NSK HIGH-SPEED ELECTRIC SPINDLES

ULTRA-PRECISION, HIGH-SPEED HES510 SPINDLES ALLOW YOU TO USE YOUR EXISTING EQUIPMENT FOR A MUCH LARGER VARIETY OF OPERATIONS. CONVENTIONAL MILLING MACHINES AND MACHINING CENTERS CAN NOW DO HIGH-SPEED MACHINING, SMALL DIAMETER DRILLING AND MILLING WITH EXTREMELY GOOD SURFACE FINISHES.

- BEST FOR SMALL DIAMETER DRILLING AND MILLING

EASILY FLEXIBILITY TO INSTALL MULTIPLE LIVE TOOLS ON A SINGLE MACHINE TO GO FROM BAR STOCK TO FULLY COMPLETED, HIGHLY COMPLEX PARTS IN A SINGLE CYCLE.



NSK SHEENUS ZERO - ULTRASONIC POLISHER

THE SHEENUS ZERO CAN BE USED FOR POLISHING AND MIRROR FINISHING ON A WIDE RANGE OF MATERIALS FROM ALUMINUM AND STEEL TO CEMENTED CARBIDE DIES. IT IS ALSO PERFECT FOR PLASTIC INJECTION MOLDS, PRESS, CASTING, FORGING, TRIMMING AND HEADER DIES. THIS TOOL QUICKLY REMOVES HARD LAYERS OF EDM DEPOSITS AND POLISHES DIFFICULT AREAS SUCH AS COMPLEX CORNERS AND RIBS.

- CAPABILITIES INCLUDE BUR REMOVAL AND POLISHING OF STEEL AND ALUMINUM MOLDS, AND DIES

CONTROLLER MODEL - NE330 120V

POWER SOURCE	AC120V/240V, 50-60HZ
POWER CONSUMPTION	100VA
DIMENSIONS	W6.34" X D10.08" X H3.31"
OSCILLATION FREQUENCY	19 KHZ - 29 KHZ
POWER CONDITIONING	CONTINUOUS VARIABLE TYPE
FREQUENCY CONTROL	AUTO-TRACKING TYPE
WEIGHT	3 LB. 5 OZ.

OSCILLATOR	PZT PIEZOELECTRIC TYPE
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SPECIFICATIONS	PART NUMBER
SHEENUS ZERO STANDARD SET	NSK7775
SHEENUS ZERO CONTROLLER MODEL	NSK7778
SHEENUS ZERO HANDPIECE MODEL	NSK7780
SHEENUS ZERO FOOT PEDAL	NSK8103



SONIC CUTTER ZERO - HIGH PERFORMANCE ULTRASONIC KNIFE

THE VIBRATION FREE SONIC CUTTER ENSURES ACCURATE AND SHARP CUTTING FINISHES. THE ERGONOMIC DESIGN AND EASY TO MANEUVER HAND-PIECE REDUCES HAND FATIGUE FOR LONG AND CONTINUOUS OPERATION. THE OUTPUT POWER AUTO ADJUSTS TO THE LOAD THAT PROVIDES CONSTANT FREQUENCY FOR STEADY CUTTING.

- VIBRATION-FREE OPERATION ENSURES ACCURATE AND SHARP CUTTING FINISHES
- ERGONOMIC DESIGN REDUCES HAND FATIGUE FOR LONG AND CONTINUOUS OPERATION

CONTROLLER MODEL - 7785 120V

POWER SOURCE	AC100-240V
DIMENSIONS	W6.34" X D10.08" X H3.31"
OSCILLATION FREQUENCY	38 KHZ - 40 KHZ
FREQUENCY CONTROL	AUTO-TRACKING
WEIGHT	3 LB. 1.44 OZ.

OSCILLATOR	BOLT-CLAMPED LANGEVIN
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SPECIFICATIONS	PART NUMBER
SONIC-CUTTER ZERO STANDARD SET	NSK7782
SONIC-CUTTER ZERO CONTROLLER UNIT	NSK7785
SONIC-CUTTER ZERO HANDPIECE MODEL	NSK7787
SONIC-CUTTER ZERO FOOT PEDAL	NSK8103



EMAX EVOLUTION - ULTRA-PRECISION BRUSHLESS MICRO-GRINDER

DIGITAL DISPLAY ENHANCES SAFETY AND EFFICIENCY. COMPACT AND FUNCTIONAL DESIGN MAKES THE UNIT PORTABLE. SOFT-TOUCH SWITCHES PERMIT EASY OPERATION AND LONG SERVICE LIFE.

- DIGITAL DISPLAY ENHANCES SAFETY AND EFFICIENCY
- COMPACT AND FUNCTIONAL DESIGN MAKES THE UNIT PORTABLE
- SOFT TOUCH SWITCHES PERMIT EASY OPERATION AND LONG SERVICE LIFE
- PROVIDES EXTREMELY QUIET OPERATION FROM LOW TO HIGH SPEED WITH STEPLESS SPEED ADJUSTMENT

MODEL	NE249 120/E24 230
POWER SOURCE	C120/2 0V, 50-60HZ
OUTPUT VOLTAGE	DC1-35V
POWER CONSUMPTION	30W
WEIGHT	2.3K G
DIMENSION	W130 X D254 X H97 MM

MOTOR MODEL	ENK-410S	ENK250T
SPEED	40,000 RPM	25,000 RPM
WEIGHT (W/O CORD)	3.17 OZ.	5.19 OZ.
MAX. TORQUE	4.3 CN·M	4.8 CN·M
OUTPUT POWER	73W	76W



NLS-110
LUSTER (BUILT-IN MOTOR)
PART NUMBER NSKNLS110



NE249 120
NE249 120V EVO CONTROL UNIT
PART NUMBER NSK8224


SET	SPECIFICATIONS	PART NUMBER
EV410-IR	STANDARD SET	NSK8231
EV250-IR	TORQUE SET	NSK8232





ENK-410S
ENK-410S EVO STANDARD MOTOR
PART NUMBER NSK8086





ENK-250T
ENK-250T EVO TORQUE MOTOR
PART NUMBER NSK8087

	IR-310 RING TYPE ATTACHMENT PART NUMBER NSKRE11008
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	IC-300 90° ANGLE TYPE ATTACHMENT PART NUMBER NSKRE10182
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	CN-01 EXTENSION JOINT 1:1 PART NUMBER NSKRE10210
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	IH-300 LEVER TYPE ATTACHMENT PART NUMBER NSKRE10178
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	KC-300 50° ANGLE TYPE ATTACHMENT PART NUMBER NSKRE10266
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	RG-01 SPEED REDUCER 1/4 PART NUMBER NSKR010214
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	IG-400 STRAIGHT TYPE ATTACHMENT PART NUMBER NSK2811
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	LS-100 LUSTER ATTACHMENT PART NUMBER NSKLS10815
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	RG-02 SPEED REDUCER 1/15 PART NUMBER NSKR010228
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	HG-200 TORQUE TYPE ATTACHMENT PART NUMBER NSKRE10188
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	ML-8 MINI-LUSTER ATTACHMENT PART NUMBER NSKLS51307
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	BMH-300 LONG TYPE ATTACHMENT PART NUMBER NSKRE10235
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	SLS-16 SWING-LUSTER ATTACHMENT PART NUMBER NSKLS11380
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	MFC-300S 90° MINI ANGLE TYPE ATTACHMENT PART NUMBER NSKRE10247
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	HA-500 HAMMER ACTION TYPE ATTACHMENT PART NUMBER NSKRE18060
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	MFC-300M 90° MINI ANGLE TYPE ATTACHMENT PART NUMBER NSKRE10252
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	KBS-101 FINE BELT SANDER ATTACHMENT PART NUMBER NSKKBS61065
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ESPERT 500 - ULTRA-PRECISION BRUSHLESS MICRO-GRINDER

THE ESPERT 500 BRUSHLESS MOTOR TAKES MOTOR TECHNOLOGY TO AN EVEN HIGHER LEVEL. THIS NEW STATE OF THE ART MOTOR HAS DRAMATICALLY INCREASED EFFICIENCY AND TORQUE OUTPUT. THE MICROPROCESSOR BASED CONTROL UNIT PROVIDES OPTIMAL CONTROL OF THE MOTORS AND ALLOWS FOR INCREASED FLEXIBILITY IN THIS MULTI-FUNCTION SYSTEM.

- MICROPROCESSOR CONTROLLED FOR OPTIMAL MOTOR CONTROL
- COMBINATION OF A HIGH-PERFORMANCE BRUSHLESS DC MOTOR AND HIGH GRADE ELECTRONICS



NE96

120V ESPERT 500 CONTROL UNIT

PART NUMBER | NSKES9087

MOTOR MODEL	ES500C-HR	ES500T-HR
SPEED	50,000 RPM	50,000 RPM
WEIGHT (W/O CORD)	7.41 OZ.	8.82 OZ.
OUTPUT POWER	140W	200W

SET	SPECIFICATIONS	PART NUMBER
ES500C-HR	STANDARD SET	NSK9881
ES500T-HR	TORQUE SET	NSK9883



ENK-500C

ENK-500C ESPERT MOTOR

PART NUMBER | NSKES9088



ENK-500T

ENK-500T ESPERT MOTOR - TORQUE TYPE

PART NUMBER | NSKES9089



EHR-500

RING ATTACHMENT

PART NUMBER | NSKES9090



EML-8

MINI-LUSTER ATTACHMENT

PART NUMBER | NSKES51554



EHL-401

LEVER ATTACHMENT

PART NUMBER | NSKES11515



KC-300

500 BELT SANDER ATTACHMENT

PART NUMBER | NSKKBS61557



EHG-400

TORQUE ATTACHMENT

PART NUMBER | NSKES41552



ERG-01B

500 SPEED REDUCER 1/4

PART NUMBER | NSKES41553



EIC-300

90° ANGLE ATTACHMENT

PART NUMBER | NSKES81525



ERG-01

500 SPEED REDUCER 1/4

PART NUMBER | NSKES11517



EKC-300

50° ANGLE ATTACHMENT

PART NUMBER | NSKES81526



ECN-011

500 EXTENSION ADAPTOR 1:1

PART NUMBER | NSKES11518



ERA-270

90° ANGLE TORQUE ATTACHMENT

PART NUMBER | NSKES41551



ELS-100

LUSTER ATTACHMENT

PART NUMBER | NSKES11516



SIMPLE SCREW ON ATTACHMENTS.



ROTUS - ULTRA-PRECISION HIGH TORQUE AIR GRINDER

THE ROTUS SYSTEM IS A HAND-HELD GRINDER WITH AN ENERGY SAVING AIR MOTOR. SINCE IT IS AN AIR DRIVEN SYSTEM, THERE IS VIRTUALLY NO HEAT GENERATION RESULTING IN EXCELLENT DURABILITY. SELECT FROM A VARIETY OF ATTACHMENTS DEPENDING ON THE APPLICATION.

- HIGH TORQUE AIR MOTOR ASSEMBLED WITH SPECIAL VANE MECHANISM
- TWO TYPES OF AIR MOTORS CAN BE SELECTED DEPENDING ON THE APPLICATION
- 1/4 AND 1/15 SPEED REDUCERS (RG-01, RG-02) CAN BE CONNECTED

THE ROTUS SYSTEM IS IDEAL FOR FINAL FINISHING SUCH AS LAPPING AND HONING AFTER GRINDING.


SPECIFICATIONS


SPEED	30,000 RPM
PROPER AIR PRESSURE	42-63PSI
AIR CONSUMPTION	2.65CFM
OUTPUT POWER	46W (MOTOR)
MAX. TORQUE	6.6 CN · M (56PSI)
WEIGHT	6.63 OZ.


	
IM-301	
TWIST-FREE JOINT MECHANISM AIR MOTOR	
PART NUMBER	NSKRO10163


	
IM-300	
CHIP AIR MECHANISM AIR MOTOR	
PART NUMBER	NSKRO10163A


SET	SPECIFICATIONS	PART NUMBER
R301-IR	NEW RING TYPE	NSK1148
R301-IHA	LEVER TYPE	NSK1149


	IR-310	
	RING TYPE ATTACHMENT	
	PART NUMBER	NSKRE11008


	IC-300	
	90°ANGLE TYPE ATTACHMENT	
	PART NUMBER	NSKRE10182


	CN-01	
	EXTENSION JOINT 1:1	
	PART NUMBER	NSKRE10210


	IH-300	
	LEVER TYPE ATTACHMENT	
	PART NUMBER	NSKRE10178


	KC-300	
	50°ANGLE TYPE ATTACHMENT	
	PART NUMBER	NSKRE10266


	IG-400	
	STRAIGHT TYPE ATTACHMENT	
	PART NUMBER	NSK2811


	LS-100	
	LUSTER ATTACHMENT	
	PART NUMBER	NSKLS10815


	RG-01	
	SPEED REDUCER 1/4	
	PART NUMBER	NSKRO10214


	HG-200	
	TORQUE TYPE ATTACHMENT	
	PART NUMBER	NSKRE10188


	ML-8	
	MINI-LUSTER ATTACHMENT	
	PART NUMBER	NSKLS51307

	BMH-300	
	LONG TYPE ATTACHMENT	
	PART NUMBER	NSKRE10235

	SLS-16	
	SWING-LUSTER ATTACHMENT	
	PART NUMBER	NSKLS11380

	RG-02	
	SPEED REDUCER 1/15	
	PART NUMBER	NSKRO10228

	MFC-300S	
	90°MINI ANGLE TYPE ATTACHMENT	
	PART NUMBER	NSKRE10247

	HA-500	
	HAMMER ACTION TYPE ATTACHMENT	
	PART NUMBER	NSKRE18060

	MFC-300M	
	90°MINI ANGLE TYPE ATTACHMENT	
	PART NUMBER	NSKRE10252

	KBS-101	
	FINE BELT SANDER ATTACHMENT	
	PART NUMBER	NSKKBS61065



NSK IMPULSE - ULTRA-PRECISION HIGH TORQUE AIR GRINDERS

THE IMPULSE SERIES ALSO OFFERS 60 DEGREE AND 90 DEGREE MODELS. CHOOSE THE TYPE THAT BEST FITS YOUR APPLICATION REQUIREMENTS. DURABLE AND QUIET HIGH-EFFICIENT AIR GRINDER.

- THE IMPULSE IS A HIGH TORQUE PENCIL TYPE AIR GRINDER.

DESIGNED FOR SENSITIVE FINGER TOUCH CONTROL TOWARD THE TOP OF THE CUTTING TOOL.



NSP-601 - STRAIGHT ATTACHMENT IMPULSE

THE AIR MOTOR IS ASSEMBLED WITH A SPECIAL VANE DESIGN WHICH KEEPS CONSTANT SPEED EVEN UNDER LOAD PROVIDING STABLE GRINDING AND POLISHING OPERATION.

RPM	AIR CONSUMPTION	AIR PRESSURE	COLLET	PART NUMBER
60,000 RPM	5.83CFM	56PSI-85PSI	1/8"	NSKNK60100



NA45-400 - 60° IMPULSE

ANGLE MODEL HOUSINGS ARE ALL ALUMINUM ALLOY. 40,000 RPM, 1/8" COLLET STANDARD, TWIST-FREE HOSE MECHANISM, SILENCER, EXCHANGEABLE COLLET CHUCK.

RPM	COLLET	PART NUMBER
40,000 RPM	1/8"	NSKNK45400



NA45-230 - 60° IMPULSE HIGH TORQUE

ANGLE MODEL HOUSINGS ARE ALL ALUMINUM ALLOY. 40,000 RPM, 1/8" COLLET STANDARD, TWIST-FREE HOSE MECHANISM, SILENCER, EXCHANGEABLE COLLECT CHUCK.

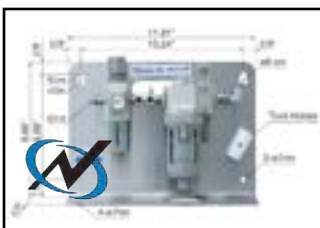
RPM	COLLET	PART NUMBER
23,000 RPM	1/8"	NSKNK45230



NA90-230 - 90° IMPULSE

ANGLE MODEL HOUSINGS ARE ALL ALUMINUM ALLOY. 40,000 RPM, 1/8" COLLET STANDARD, TWIST-FREE HOSE MECHANISM, SILENCER, EXCHANGEABLE COLLECT CHUCK.

RPM	COLLET	PART NUMBER
23,000 RPM	1/8"	NSKNK90230



AL-H1206 - AIR LINE KIT

SUPPLIES SMOOTH AIR FLOW AND AUTOMATIC LUBRICATION, ENSURING STABLE SPEED AND POWER. ADJUSTABLE LUBRICATION AND AIR PRESSURE SETTINGS PROVIDE LONGEVITY TO THE AIR GRINDER.

- BEST FOR GRINDING AND POLISHING APPLICATIONS.

THIS COMPACT AIR LINE KIT ALLOWS FOR PORTABILITY OR STATIONARY MOUNTING AS WELL AS A CARRIER FOR THE IMPULSE.

PRODUCT NAME	PART NUMBER
AL-H1206	NSK4506

FOREDOM

MOTORS ARE BUILT TO INDUSTRIAL SPECIFICATIONS AND MEET OR EXCEED MOST PERFORMANCE EXPECTATIONS.



FOREDOM FLEXSHAFT TX SERIES 1/3 HORSEPOWER

A 1/3 HP PERMANENT MAGNET MOTOR WITH LOAD SENSING FEEDBACK CONTROL CIRCUITRY THAT PROVIDES FULL MOTOR TORQUE AT ALL SPEEDS. THE TX'S ADDITIONAL HORSEPOWER MAKES IT OUR MOST POWERFUL FOREDOM MOTOR OUTFIT. MODELS IN 115V ONLY.

IT COMES EQUIPPED WITH A MOTOR BALE FOR HANGING, AND OUR STANDARD 39" LONG KEY-TIP INNER SHAFT AND OUTER SHEATH FOR CONNECTING TO ANY OF FOREDOM'S 20+ INTERCHANGEABLE, QUICK DISCONNECT HAND PIECES.

BEST FOR JOBS REQUIRING EXTRA POWER AT SPEEDS UP TO 15,000 RPM.

DESCRIPTION	PART NUMBER
TX HANG-UP MOTOR WITH HEAVY DUTY PLASTIC FOOT CONTROL	FORMTXXR
TX HANG-UP MOTOR WITH METAL HOUSING FOOT CONTROL	FORMTXSR
TX HANG-UP MOTOR WITH TABLE TOP SPEED CONTROL	FORMTXEMX

HAND PIECES SOLD SEPARATELY.



FOREDOM FLEXSHAFT SR SERIES 1/6 HORSEPOWER

THE 1/6 HORSEPOWER SERIES SR OFFERS ALL OF THE POWER AND SPEED NEEDED TO ACCOMPLISH MOST EVERY JOB. IT RUNS IN BOTH FORWARD AND REVERSE AT SPEEDS UP TO 18,000 RPM. ALTERNATING MOTOR DIRECTION IS USEFUL IN SYMMETRICAL GRINDING AND CARVING, EXTENDS THE LIFE OF SOME ABRASIVES, SPEEDS UP AND FACILITATES METAL POLISHING, AND HELPS TO KEEP DUST AND GRINDINGS FLYING AWAY FROM RIGHT-HANDED USERS. LEFT-HANDED USERS HAVE MORE CONTROL OF THE CUTTING TOOL WHEN THE MOTOR IS IN REVERSE MODE.

IT COMES EQUIPPED WITH A MOTOR BALE FOR HANGING, AND OUR STANDARD 39" LONG KEY-TIP INNER SHAFT AND OUTER SHEATH FOR CONNECTING TO ANY OF FOREDOM'S 20+ INTERCHANGEABLE, QUICK DISCONNECT HAND PIECES.

BEST FOR GENERAL USE.

DESCRIPTION	PART NUMBER
SR HANG-UP MOTOR WITH HEAVY DUTY PLASTIC FOOT CONTROL	FORMSRFT
SR HANG-UP MOTOR WITH METAL HOUSING FOOT CONTROL	FORMSRCT
SR HANG-UP MOTOR WITH TABLE TOP SPEED CONTROL	FORMSREM

TWO-YEAR WARRANTY ON 1/6 HORSEPOWER SERIES SR MOTORS AND CONTROLS. HAND PIECES SOLD SEPARATELY - 115V.

MOTORS ARE RATED AT CONTINUOUS DUTY OR MAXIMUM EFFICIENCY AND NOT MAXIMUM OUTPUT. ADOPTING THE MAX OUTPUT RATING USED BY OTHER MANUFACTURERS, THE SERIES SR WOULD QUALIFY AS 1/5 HORSEPOWER OR 1/4 HORSEPOWER .



FOREDOM FLEXSHAFT LX SERIES LOW SPEED


A HIGH TORQUE, LOW SPEED MOTOR (MAXIMUM SPEED 5000 RPM) ENGINEERED SPECIFICALLY FOR LOW SPEED/HIGH TORQUE APPLICATIONS SUCH AS DRILLING, WAX MODELING, AND OTHER SLOW SPEED APPLICATIONS - 115 V.

IT COMES EQUIPPED WITH A MOTOR BALE FOR HANGING, AND OUR STANDARD 39" LONG KEY-TIP INNER SHAFT AND OUTER SHEATH FOR CONNECTING TO ANY OF FOREDOM'S 20+ INTERCHANGEABLE, QUICK DISCONNECT HAND PIECES.


DESCRIPTION	PART NUMBER
LX HANG-UP MOTOR WITH HEAVY DUTY PLASTIC FOOT CONTROL	FORMLXXR
LX HANG-UP MOTOR WITH METAL HOUSING FOOT CONTROL	FORMLXSR
LX HANG-UP MOTOR WITH TABLE TOP SPEED CONTROL	FORMLXEMX


BENCH MODELS ARE ALSO AVAILABLE FOR ALL FOREDOM SERIES LISTED


FOREDOM - GENERAL PURPOSE HAND PIECES


	THE H.30 GENERAL PURPOSE HAND PIECE HAS PRE-LUBRICATED BALL BEARINGS THAT REQUIRE NO MAINTENANCE. COMES WITH HPCK-0 CHUCK KEY IN MOLDED PLASTIC HANDLE FOR CHANGING ACCESSORIES.			
	LENGTH	DIAMETER	WEIGHT	PART NUMBER
	5-3/16" LONG	1"	5.85 OZ.	FORH30


FOREDOM'S MOST POPULAR HAND PIECE FEATURES A #0 GEARED 3-JAW CHUCK THAT ACCEPTS ANY SIZE ACCESSORY SHANK OR DRILL BIT UP TO 5/32".


	THE H.44T IS A COLLET TYPE HAND PIECE THAT ACCEPTS ACCESSORIES WITH UP TO 1/4" DIAMETER SHANKS. HAS PRE-LUBRICATED BALL BEARINGS THAT REQUIRE NO MAINTENANCE.			
	LENGTH	DIAMETER	WEIGHT	PART NUMBER
	5-5/8" LONG	1" (CENTER), 3/4" (TAPER)	5.85 OZ.	FORH44T


	THE H.43T IS A SHORTER VERSION OF THE H.44T AND ACCEPTS ACCESSORIES WITH UP TO 1/4" DIAMETER SHANKS. HAS PRE-LUBRICATED BALL BEARINGS THAT REQUIRE NO MAINTENANCE.			
	LENGTH	DIAMETER	WEIGHT	PART NUMBER
	4-1/2" LONG	1" (CENTER), 3/4" (TAPER)	4.9 OZ.	FORH43T


	THE H.28 HAS A SLENDER, COMFORTABLE DESIGN WITH TAPERED GRIP AND PRE-LUBRICATED BALL BEARINGS THAT DO NOT REQUIRE LUBRICATION.			
	LENGTH	DIAMETER	WEIGHT	PART NUMBER
	5-1/4" LONG	23/32" (CENTER), 1/2" (TAPER)	3 OZ.	FORH28


	THE H.8 IS ALSO A SLIM COLLET TYPE HAND PIECE WITH PRE-LUBRICATED BALL BEARINGS THAT REQUIRE NO MAINTENANCE. IT HAS A CHUCK GUARD THAT SLIDES BACK WHEN CHANGING BURS.			
	LENGTH	DIAMETER	WEIGHT	PART NUMBER
	6-1/8" LONG	5/8"	3.55 OZ.	FORH8

	THE H.18 IS FOR USE WITH ONLY 2.35MM (3/32") SHANK BURS. A PRESS LEVER ACTION IS ALL THAT IS REQUIRED TO CHANGE ACCESSORIES. IT FEATURES A VERY SLIM GRIP AND PRE-LUBRICATED BALL BEARINGS.			
	LENGTH	DIAMETER	WEIGHT	PART NUMBER
	7" LONG	19/32"	3.65 OZ.	FORH18

	THE H.18 IS FOR USE WITH ONLY 2.35MM (3/32") SHANK BURS. A PRESS LEVER ACTION IS ALL THAT IS REQUIRED TO CHANGE ACCESSORIES. IT FEATURES A VERY SLIM GRIP AND PRE-LUBRICATED BALL BEARINGS.			
	LENGTH	DIAMETER	WEIGHT	PART NUMBER
	5-5/8" LONG	1-1/8" (CENTER), 3/8" (TAPER)	4 OZ.	FORH20

	THE H.52 HAS A DURABLE PLASTIC BARREL AND GRIP, AND PRE-LUBRICATED BALL BEARINGS THAT DO NOT REQUIRE ANY LUBRICATION. IT FEATURES A UNIQUE PUSH/PULL ACTION ON THE HAND PIECE BODY TO CHANGE ACCESSORIES.			
	LENGTH	DIAMETER	WEIGHT	PART NUMBER
	5-5/8" LONG	1-1/8" (CENTER), 3/8" (TAPER)	4 OZ.	FORH20

	THE H.18 IS FOR USE WITH ONLY 2.35MM (3/32") SHANK BURS. A PRESS LEVER ACTION IS ALL THAT IS REQUIRED TO CHANGE ACCESSORIES. IT FEATURES A VERY SLIM GRIP AND PRE-LUBRICATED BALL BEARINGS.			
	LENGTH	DIAMETER	WEIGHT	PART NUMBER
	7-3/8" LONG	21/32"	4.55 OZ.	FORH10



FOREDOM PORTABLE MICROMOTOR - PORTABLE COMPACT MICROMOTOR SYSTEM

THE PORTABLE MICROMOTOR HANDPIECE IS SMALL AND LIGHTWEIGHT YET HAS PLENTY OF POWER FOR FINE DETAILING, POLISHING, AND EVEN GRINDING ON METAL AND MANY OTHER MATERIALS.

- FEATURES A DIGITAL RPM DISPLAY THAT MAKES IT EASY TO MONITOR SPEED AS YOU WORK
- PERFECT FOR USERS WHO WORK AT MULTIPLE STATIONS
- VARIABLE SPEED UP TO 30,000 RPM


BUILT-IN LITHIUM-ION RECHARGEABLE BATTERY FOR THE ULTIMATE IN PORTABILITY - BATTERY CHARGE TIME IS 3 HOURS




ON/OFF FOOT SWITCH




PART NUMBER
FORHP4-927

FOREDOM MICROMOTOR	PART NUMBER
	FOR103018

REPLACEMENT COLLETS FOR FOREDOM MICROMOTOR		
	PART	SIZE
	FOR117	2.35 MM (3/32")
	FOR117B	1/8" (3.18 MM)
	FOR117C	3.0 MM

COLLET ADAPTER FOR FOREDOM MICROMOTOR		
	PART	SIZE
	FOR3236	1/8"-3/32"

FOREDOM - ACCESSORIES AND REPLACEMENT PARTS

	MODEL	PART NUMBER
 FOREDOM'S MOST POPULAR FOOT OPERATED SPEED CONTROL IS MADE OF HEAVY-DUTY PLASTIC WITH DURABLE SOLID STATE ELECTRONICS - 115V .	TXFORCSCT1	FORCTXR1
	SR	FORCFCT1
	LX	FORCTXR1
 SAME SOLID STATE ELECTRONICS AS THE FORCSCT1 EXCEPT FOOT CONTROL COMES IN A METAL HOUSING FOR ADDED STABILITY AND CONTROL - 115V.	TXFORCFCT1	FORCSXR1
	SR	FORCSCT1
	LX	FORCSXR1
 TABLE TOP SPEED CONTROL IN HEAVY DUTY PLASTIC HOUSING WITH SOLID STATE ELECTRONICS AND DIAL FOR PRECISE SPEED SETTINGS - 115V.	TXFORCSCT1	FORCEMX1
	SR	FORCEM1
	LX	FORCEMX1



OILER

PART NUMBER
FORMS10005




OIL

PART NUMBER
FORMS10010



H.30 RUBBER CUSHION


PART NUMBER
FORHPG30



FOREDOM MOTOR HANGERS

FOREDOM MAMH-1 AND MAMH-2 MOTOR HANGERS FEATURE A 3-PIECE HEXAGONAL SUPPORT ROD AND SAFETY HOOK FOR HOLDING TWO MOTORS.

TYPE	MODEL	PART NUMBER
DOUBLE MOTOR HANGER WITH MOUNTING CLAMP	MAMH-1	FORMAMH3
DOUBLE MOTOR HANGER WITH BASE MOUNT	MAMH-2	FORMAMH4



MAH-30 HANDPIECE HOLDER

ALLOWS YOU TO BRING THE WORK PIECE TO THE TOOL.
INCLUDES HANDPIECE CLAMP, BENCH CLAMP AND ROD.

PART NUMBER **FORMAHH30**

THE MOTOR HANGER WITH CLAMP IS USED TO SUSPEND A HANG-UP STYLE MOTOR OR OTHER POWER TOOL ABOVE THE WORK BENCH. IT FEATURES A SOLID ROD WITH MAMC-1 MOUNTING CLAMP FOR ATTACHING TO ANY BENCH TOP UP TO 2-1/4" THICK. THE ROD HEIGHT CAN BE ADJUSTED WITH THE LOCKING SCREW BUILT ONTO THE CLAMP. COMES WITH A MAMR-2 HANDPIECE REST THAT SLIDES ONTO THE HANGER POLE AND SECURES YOUR HANDPIECE WHEN NOT IN USE. ALSO INCLUDED IS THE UA10658 SPRING SAFETY CLIP THAT SLIDES OVER THE MOTOR BALE AND ON TO THE HANGER ROD TO KEEP THE MOTOR FROM JUMPING AND TWISTING DURING START UP AND ACCELERATION.

30/44T HANDPIECE HOLDER



M.K. Morse products are manufactured in Canton, Ohio, in the industry's most advanced production facility. This facility has undergone a number of expansions over the years M.K. Morse developed their unique integrated manufacturing approach that helps them ship most orders for standard stock within 24 hours.

CARBIDE TIPPED

BLADES OPTIMIZED FOR FASTEST CUTTING AND LONGEST LIFE CUTTING SUPER ALLOYS, STAINLESS STEELS AND ALLOY STEEL.

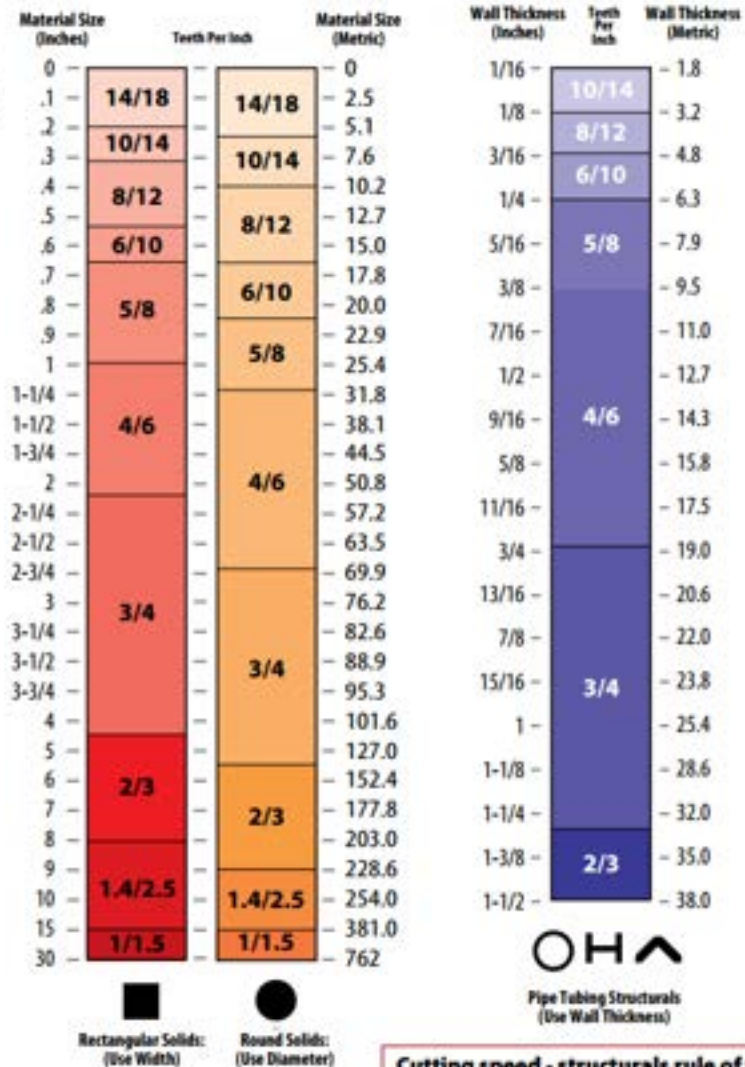
BI-METAL

HIGHLY FATIGUE RESISTANT TO ELIMINATE PREMATURE BREAKAGE. EXCELLENT IN SOLID TOOL STEELS AND SMALL TO MEDIUM STAINLESS AND NICKEL BASED ALLOYS.

CARBIDE GRIT

IDEAL FOR CUTTING CERAMICS AND OTHER MATERIALS THAT ARE TOO HARD OR ABRASIVE FOR STANDARD BI-METAL BLADES, TUNGSTEN CARBIDE GRIT BLADES PROVIDE SUPERIOR WEAR RESISTANCE.

Band saw tooth size (Teeth Per Inch) is determined by the size and type of material to be cut and the desired finish. To select T.P.I. using this chart, find the colored chart for the type of material you wish to cut. Move up to the correct material size next to the chart. Follow across to the chart for the appropriate T.P.I. for your blade.



Cutting speed - structurals rule of thumb:
 When cutting structurals use a cutting speed of 250-325 S.F.M. Wet • 200-250 S.F.M. Dry

MORSE BI-METAL BAND SAW BLADE APPLICATION OVERVIEW								
Selection Based Upon Target Application								
General Purpose Cutting Machines in Poor Condition	CARBON STEELS	STRUCTURAL STEELS	ALUMINUM & LT. ALLOY STEELS	ALLOY STEELS MOLD STEELS	TOOL STEELS	STAINLESS STEELS	NICKEL BASE ALLOYS	TITANIUM ALLOYS
AISI	1010, 1020, 1045	A36	6061, 2011, 2024, 5052	4140, P20	A2, H13, S7 M-Series	316, 304 17-4 PH, 15-5 PH	INCONEL, MONEL, WARPALLOY	Ti-6Al-4V
JS	S20C, S45C		6081, 2015, 2024, 5052	SCM 440(H), SCM 445(H)	SHD11, SHD12, SKD61, SKS41	SUS316, SUS304	NCU-P-O	H4650, H4600
DIN	Ce45, C16.8		AlCuFe, AlCuMg2, AlMg2MnO.3	41CrMo4	X155CrNiMoV15, (C)X40CrMoV51	X3CrNiMo18 10, X5CrNi18 10	NiCr19Ni16Mo, NiCr19Co14Mo4Ti	
		MATRIX II						
		M42						
		STRUCTURAL						
						INDEPENDENCE II®		
						INDEPENDENCE EXS®		



Select teeth per inch to allow at least two teeth to be in the cut at all times.



JAWBREAKER - CARBIDE TIPPED BAND SAW BLADES

DESIGNED FOR PRODUCTION CUTTING OF LARGE BILLETS OF SUPER ALLOYS AND OTHER HARD-TO-CUT MATERIALS. INCREASED CUTTING CAPACITY, HIGHER FEED RATES AND LONGER BLADE LIFE ALLOW YOU TO CUT MORE.


- UP TO 30% FASTER CUTS
- UP TO 2.5X LONGER BLADE LIFE

IF YOU NEED MORE CAPACITY AND HIGHER PRODUCTION, MORSE JAWBREAKER IS THE ANSWER.

WIDTH X THICKNESS		T.P.I. VARIABLE	
IN	MM	.75/1	1.5/2
2 X .063	54 X 1.60	▼	▼
2-5/8 X .063	67 X 1.60	▼	▼
3 X .063	80 X 1.60	▼	▼

FEATURING EXCLUSIVE
PLYOMETRIC
CUTTING ACTION
WITH
KERFLOCK
TECHNOLOGY

FOR OPTIMAL PERFORMANCE DO NOT BREAK IN JAWBREAKER® BLADES



M-FACTOR GES - CARBIDE TIPPED BAND SAW BLADES


FOR EXOTIC MATERIAL AND FERROUS STEEL, WITH PARTICULAR EMPHASIS ON THICK WALL AND SOLID BILLET APPLICATIONS. REDUCED VIBRATION, HEAT, AND NOISE FOR GREATER CUTTING EFFICIENCY.

- LONGER BLADE LIFE
- CONSISTENT KERF THROUGH LIFE OF THE BLADE

PROVIDES UP TO 20% FASTER CUTTING, 20% LONGER LIFE, AND THE ABILITY TO CUT UP TO 25% LARGER MATERIAL.

WIDTH X THICKNESS		T.P.I. VARIABLE			
IN	MM	.75/1	1.5/2	2/3	3/4
1-1/4 X .042	34 X 1.10			▼	▼
1-1/2 X .050	41 X 1.30		▼▼	▼	▼
2 X .063	54 X 1.60	▼	▼▼	▼▼	▼
2-5/8 X .063	67 X 1.60	▼▼	▼▼	▼	
3 X .063	80 X 1.60	▼▼	▼		

FOR OPTIMAL PERFORMANCE DO NOT BREAK IN M-FACTOR® GES BLADES



M-FACTOR GP - CARBIDE TIPPED BAND SAW BLADES

M-FACTOR® GP IS DESIGNED SPECIFICALLY FOR LONG BLADE LIFE WHEN CUTTING ANY SMALL BILLET (<12", 30.5CM) FERROUS STEEL APPLICATIONS. FEWER BLADE CHANGES FOR REDUCED DOWNTIME AND INCREASED PRODUCTIVITY.

- GENERAL PURPOSE BLADE FOR SMALL BILLET FERROUS APPLICATIONS
- LONGER BLADE LIFE THAN BI-METAL

PROVIDES UP TO 20% FASTER CUTTING, 20% LONGER LIFE, AND THE ABILITY TO CUT UP TO 25% LARGER MATERIAL.

WIDTH X THICKNESS		T.P.I. VARIABLE			
IN	MM	.75/1	1.5/2	2/3	3/4
1 X .035	27 X 0.90			▼	▼
1-1/4 X .042	34 X 1.10	▼	▼	▼	▼
1-1/2 X .050	41 X 1.30		▼	▼	▼
2 X .063	54 X 1.60	▼	▼	▼	
2-5/8 X .063	67 X 1.60	▼	▼	▼	
3 X .063	80 X 1.60	▼	▼		



M-FACTOR CH - CARBIDE TIPPED BAND SAW BLADES

DESIGNED FOR LONG LIFE AND FAST, SMOOTH CUTTING OF CHROME PLATED, CASE HARDENED HYDRAULIC SHAFT SPECIFICATIONS. RESISTANT TO TOOTH CHIPPING FOR HIGH HARDNESS MATERIALS.

- IMPACT-RESISTANT CARBIDE TIPPED TOOTH DESIGN
- IDEAL FOR MATERIALS <12", 30.5CM

LONGER BLADE LIFE AND FEWER BLADE CHANGES THAN A GENERAL PURPOSE BLADE IN THE SAME APPLICATION.

WIDTH X THICKNESS		T.P.I.		
		VARIABLE	3/4	STRAIGHT
IN	MM	2/3	3/4	3
1 X .035	27 X 0.90		▼	▼
1-1/4 X .042	34 X 1.10		▼	▼
1-1/2 X .050	41 X 1.30	▼	▼	
2 X .063	54 X 1.60	▼		



M-FACTOR FOUNDRY FBS - CARBIDE TIPPED BAND SAW BLADES

EXCEPTIONALLY LONG LIFE AND FAST CUTTING OF ABRASIVE AND NON FERROUS MATERIALS. CONTOUR CUTS IN ABRASIVE AND NON-FERROUS MATERIALS TO AVOID PINCHING IN FOUNDRIES

- CARBIDE TIPPED SET TOOTH DESIGN OPTIMIZED FOR CONTOUR AND RADII CUTTING APPLICATIONS
- CUTS NON-FERROUS AND WOOD MATERIALS

FEATURES A SET TOOTH DESIGN FOR LONG LIFE AND FAST CUTTING OF ABRASIVE AND NON-FERROUS MATERIALS WITH CONTOUR SHAPES.

WIDTH X THICKNESS		T.P.I.	
		STRAIGHT	3 SET
IN	MM	3	3 SET
1/2 X .025	13 X 0.64	▼	
3/4 X .035	19 X 0.90	▼	▼
1 X .035	27 X 0.90	▼	▼
1-1/4 X .042	34 X 1.10	▼	▼




INDEPENDENCE EXS - BI-METAL BAND SAW BLADES

FOR HIGH-PRODUCTION SOLID METAL APPLICATIONS. BEST BI-METAL OPTION FOR STAINLESS STEELS AND EXOTICS. CAN TACKLE A LARGE VARIETY OF MATERIAL SIZE AND WIDTH. SUPERIOR WEAR, HEAT, AND SHOCK RESISTANCE.

- HIGH POSITIVE RAKE REDUCES CUTTING FORCES, RESULTING IN LONGER BLADE LIFE
- PREMIER MATERIALS USED FOR TOOTH EDGE AND BACKER

DESIGNED FOR CUTTING HIGH PRODUCTION SOLID APPLICATIONS.

WIDTH X THICKNESS		T.P.I.				
		VARIABLE				
IN	MM	1/1.5	1.5/2	2/3	3/4	4/6
1 X .035	27 X 0.90			▼	▼	▼
1-1/4 X .042	34 X 1.10			▼	▼	▼
1-1/2 X .050	41 X 1.30		▼	▼	▼	
2 X .063	54 X 1.60	▼	▼	▼	▼	



INDEPENDENCE II - BI-METAL BAND SAW BLADES

DESIGNED FOR PRECISION CUTTING OF SMALL TO MEDIUM CROSS SECTIONS AND STAINLESS STEEL STRUCTURAL AND BUNDLE CUTTING. BEST OPTION FOR A VARIETY OF MATERIAL GRADES, DIMENSIONS, AND SHAPES.

- FATIGUE RESISTANT, ELIMINATING PRE-MATURE BREAKAGE
- PREMIER MATERIALS USED FOR TOOTH EDGE AND BACKER

MAXIMUM BLADE VERSATILITY AND LONGEVITY.

WIDTH X THICKNESS		T.P.I. VARIABLE			
IN	MM	2/3	3/4	4/6	5/7
1 X .035	27 X 0.90	▼	▼	▼	▼
1-1/4 X .042	34 X 1.10	▼	▼	▼	▼
1-1/2 X .050	41 X 1.30	▼	▼	▼	▼
2 X .063	54 X 1.60	▼	▼	▼	▼




MAVERICK - BI-METAL BAND SAW BLADES

PERFORMS IN BOTH PRODUCTION AND JOB SHOP ENVIRONMENTS AND CAN DELIVER WITH OCCASIONAL STRUCTURAL CUTTING. GENERAL PURPOSE FOR PRODUCTION ENVIRONMENTS.

- FOR BOTH PRODUCTION AND JOB SHOPS
- DESIGNED TO OPTIMIZE BLADE LONGEVITY AT TARGETED SPEEDS

GOOD OPTION FOR TOOL STEELS AND STAINLESS STEELS.

WIDTH X THICKNESS		T.P.I. VARIABLE							
IN	MM	.75/1.1	1.1/1.5	1.4/2.5	1.5/2	2/3	3/4	4/6	5/7
1 X .035	27 X 0.90					▼	▼	▼	▼
1-1/4 X .042	34 X 1.10					▼	▼	▼	▼
1-1/2 X .050	41 X 1.30			▼		▼	▼	▼	
2 X .063	54 X 1.60			▼		▼	▼		
2-5/8 X .063	67 X 1.60	▼	▼		▼	▼	▼		
3 X .063	80 X 1.60	▼	▼						



THE MORSE ACHIEVER - BI-METAL BAND SAW BLADES

RELIABLE AND DURABLE WHEN CUTTING MILD TO MODERATE MATERIALS INCLUDING LAYER AND BUNDLE CUTS. GREAT FOR MAINTENANCE SHOPS AND LOW VOLUME PRODUCTION. HANDLES VIBRATION AND INTERRUPTIONS.

- 0° RAKE OFFERING FOR STRUCTURAL APPLICATIONS AND THIN PIECES
- FINER TOOTH PITCHES CUT SMALLER DIAMETER AND THIN-WALLED MATERIALS

FOR PRODUCTION CUTTING OF MILD TO DIFFICULT MATERIALS.

WIDTH X THICKNESS		T.P.I. VARIABLE PITCH - 0° RAKE				
IN	MM	4/6	5/8	6/10	8/12	10/14
1 X .035	27 X 0.90	▼	▼	▼	▼	▼
1-1/4 X .042	34 X 1.10	▼		▼		



CHALLENGER - BI-METAL BAND SAW BLADES

LONG LIFE AND STRAIGHT CUTS WITH REDUCED VIBRATION AND NOISE WHEN CUTTING STRUCTURAL MATERIAL. FOR GENERAL PURPOSE STRUCTURAL, INTERRUPTED, AND BUNDLE CUTTING.

- REDUCED CHANCE OF STRIPPING TEETH
- DESIGNED TO ABSORB REPEATED IMPACT WHEN CUTTING MULTI-WALLED PARTS

DELIVERS LONG LIFE AND STRAIGHT CUTS WITH REDUCED VIBRATION AND NOISE WHEN CUTTING STRUCTURAL MATERIAL.

WIDTH X THICKNESS		T.P.I.				
		VARIABLE				
IN	MM	2/3	3/4	4/6	5/7	8/11
1/2 X .025	13 X 0.64					▼
3/4 X .035	19 X 0.90				▼	▼
1 X .035	27 X 0.90		▼	▼	▼	▼
1-1/4 X .042	34 X 1.10		▼▼	▼▼	▼	▼
1-1/2 X .050	41 X 1.30	▼	▼▼	▼▼	▼	▼
2 X .063	54 X 1.60	▼▼	▼▼	▼▼		
2-5/8 X .063	67 X 1.60	▼▼	▼▼	▼		

▼ WIDE KERF



MATRIX II - BI-METAL BAND SAW BLADES

AN ECONOMICAL BLADE THAT CUTS SMOOTHER AND FASTER WITH MORE AGGRESSIVE TOOTH PENETRATION AND REDUCED VIBRATION. GENERAL PURPOSE BLADE FOR CUTTING SOLIDS.

- CUTS SOLID WITH REDUCED VIBRATION FOR SMOOTHER FINISH
- IDEAL FOR CUTTING MATERIALS WITH EASY TO MODERATE MACHINABILITY

LARGE PORTFOLIO OF BLADES ARE DESIGNED FOR OPTIMAL PERFORMANCE IN SPECIFIC APPLICATIONS.

WIDTH X THICKNESS		T.P.I.	
		VARIABLE PITCH - POSITIVE RAKE	
IN	MM	3/4	4/6
3/4 X .035	19 X 0.90	▼	▼
1 X .035	27 X 0.90	▼	▼
1-1/4 X .042	34 X 1.10		▼

WIDTH X THICKNESS		T.P.I.							
		VARIABLE PITCH - 0° RAKE							
IN	MM	4/6	5/8	6/10	8/11	8/12	10/14	12/16	14/18
1/2 X .020	13 X 0.50				▼		▼	▼	▼
1/2 X .025	13 X 0.64			▼		▼	▼		▼
1/2 X .035	13 X 0.90						▼		
3/4 X .035	19 X 0.90			▼		▼	▼		
1 X .035	27 X 0.90	▼	▼	▼		▼	▼		
1-1/4 X .042	34 X 1.10		▼	▼					

WIDTH X THICKNESS		T.P.I.										
		RAKER					WAVY			HOOK		
IN	MM	6	8	10	14	18	14	18	24	1.14	3	4
1/2 X .020	13 X 0.50			▼		▼	▼	▼	▼			
1/2 X .025	13 X 0.64	▼			▼	▼					▼	▼
3/4 X .035	19 X 0.90		▼	▼	▼						▼	
1 X .035	27 X 0.90				▼							
1-1/4 X .042	34 X 1.10									▼		



M42 - BI-METAL BAND SAW BLADES

DESIGNED FOR HIGHER PRODUCTION SPEEDS ON DIFFICULT TO MACHINE MATERIALS. DURABLE FOR HIGHER PRODUCTION SPEEDS ON DIFFICULT TO MACHINE MATERIALS. REDUCED VIBRATION AND HARMONICS.

- CUTS SOLID WITH REDUCED VIBRATION FOR SMOOTHER FINISH
- DURABLE FOR HIGHER PRODUCTION SPEEDS ON DIFFICULT TO MACHINE MATERIALS

VERSATILE AND DESIGNED TO CUT A VARIETY OF MATERIALS.

WIDTH X THICKNESS		T.P.I.			
		VARIABLE PITCH - POSITIVE RAKE			
IN	MM	2/3	3/4	4/6	5/7
3/4 X .035	19 X 0.90			▼	
1 X .035	27 X 0.90	▼	▼▼	▼▼	▼
1-1/4 X .042	34 X 1.10	▼	▼▼	▼▼	▼
1-1/2 X .050	41 X 1.30	▼	▼▼	▼▼	
2 X .050	54 X 1.30		▼		
2 X .063	54 X 1.60	▼	▼		

▼ AVAILABLE WITH 6° RAKE ANGLE

WIDTH X THICKNESS		T.P.I.					
		VARIABLE PITCH - 0° RAKE					
IN	MM	3/4	4/6	5/8	6/10	8/12	10/14
1/2 X .025	13 X 0.64					▼	
1/2 X .035	13 X 0.90						▼
3/4 X .035	19 X 0.90		▼	▼	▼	▼	▼
1 X .035	27 X 0.90	▼	▼	▼	▼	▼	▼
1-1/4 X .042	34 X 1.10	▼	▼	▼		▼	
1-1/2 X .050	41 X 1.30	▼	▼	▼			

WIDTH X THICKNESS		T.P.I.					
		RAKER		HOOK			
IN	MM	10	14	1	1.14	2	4
3/8 X .035	9 X 0.90						▼
1/2 X .035	13 X 0.90		▼				▼
1 X .035	27 X 0.90					▼	
1-1/4 X .042	34 X 1.10				▼		
2 X .050	54 X 1.30			▼			




M42 - BI-METAL DIE BAND

DESIGNED FOR CUTTING SMALL CROSS SECTIONS OF TOOLS STEELS AND DIE BLOCKS WHILE PROVIDING EXTENDED BLADE LIFE AND GREATER EFFICIENCY IN THE SHOP. FEWER BLADE CHANGES FOR INCREASED PRODUCTIVITY.

- HIGH HEAT AND WEAR RESISTANCE
- VERSATILE TO CUT DIFFICULT-TO-MACHINE MATERIALS

FOR SMALL CROSS SECTIONS OF TOOL STEELS AND DIE BLOCKS

WIDTH X THICKNESS		T.P.I.				
		VARIABLE		RAKER	HOOK	
IN	MM	8/12	10/14	10	14	4
3/8 X .035	9 X 0.90					▼
1/2 X .025	13 X 0.64	▼				
1/2 X .035	13 X 0.90		▼		▼	▼



MATRIX II - BI-METAL BAND SAW BLADES

AN ECONOMY SOLUTION FOR CUTTING LARGE CROSS SECTIONS OF TOOL STEELS AND DIE BLOCKS. DESIGNED FOR CUTTING SOLIDS WITH LOW TO MODERATE MACHINABILITY. FEWER BLADE CHANGES FOR INCREASED PRODUCTIVITY.

- ECONOMIC OPTION FOR LOW MACHINABLE MATERIALS
- BETTER SUITED FOR THINNER SECTIONS

FOR LARGE CROSS SECTIONS OF TOOL STEELS AND DIE BLOCKS

WIDTH X THICKNESS		T.P.I.					
		VARIABLE			RAKER		HOOK
IN	MM	6/10	8/12	10/14	14	18	4
1/2 X .025	13 X 0.64	▼	▼	▼	▼	▼	▼




TUNGSTEN CARBIDE GRIT

TUNGSTEN CARBIDE GRIT GULLETED MEDIUM BLADES ARE IDEAL FOR SOFTER AND THICK-WALLED CERAMIC AND ABRASIVE APPLICATIONS THAN THE STANDARD TUNGSTEN CARBIDE GRIT BLADES. VERY SMOOTH FINISH.

- SUPERIOR WEAR RESISTANCE
- PROVIDES A SMOOTH SURFACE FINISH

DESIGNED FOR CUTTING MATERIALS TOO HARD OR ABRASIVE FOR STANDARD BI-METAL BLADES.

WIDTH X THICKNESS		GRIT TYPE				
		GULLETED			CONTINUOUS	
IN	MM	MEDIUM	MEDIUM COARSE	COARSE	MEDIUM	COARSE
3/8 X .025	9 X 0.64	▼	▼			
1/2 X .025	13 X 0.64	▼	▼		▼	
3/4 X .032	19 X 0.80		▼	▼		
1 X .035	27 X 0.90		▼	▼	▼	
1-1/4 X .042	34 X 1.10			▼		▼



TOOTH BRUSH - BANDSAW BLADE CHIP REMOVER

BRUSH FITS VIRTUALLY EVERY SAW ON THE MARKET AND EFFICIENTLY CLEARS CHIPS FROM BLADE TEETH GULLETS. MADE WITH A LONG-LASTING BRASS BRUSH, IT IS BUILT FOR DURABILITY AND EASY TO INSTALL ON ALL MACHINES.

- 11 BRUSH CONFIGURATIONS TO FIT MANY SAW MODELS
- MADE WITH NEODYMIUM MAGNETS WITH A PULL FORCE RATING OF 75 LBS

MAGNETIC CHIP BRUSH THAT HELPS ENSURE OPTIMAL CUTTING CONDITIONS WHEN USING AN INDUSTRIAL BAND SAW BLADE.

MODEL	PART NUMBER	QUANTITY
TOOTHBRUSH	MK183116	16
TOOTH BRUSH REFILLS	MK183123	3





QUIKSILVER HB - HARD BACK BLADES

QUIKSILVER HARD BACK (HB) RAKER BLADES ARE STIFFER BLADES THAT OFFER STRAIGHTER CUTS IN HAND-FED WOOD AND METAL APPLICATIONS. MORE RIGID BLADE PROVIDES STRAIGHTER CUTS. CAN BE RESHARPENED.

- 0° RAKE ANGLE PROVIDES LONGEST LIFE FOR MANUAL CUTTING
- LONGER BLADE AND TOOTH LIFE FOR INCREASED PRODUCTIVITY

DESIGNED FOR PRODUCING STRAIGHTER CUTS.

WIDTH X THICKNESS		T.P.I.											
		RAKER				WAVY			HOOK				
IN	MM	6	10	14	18	12	14	18	1.3	2	3	4	6
3/8 X .025	9 X 0.64			▼							▼	▼	▼
1/2 X .025	13 X 0.64	▼	▼	▼	▼			▼			▼	▼	▼
5/8 X .032	16 X 0.80											▼	
3/4 X .032	19 X 0.80	▼	▼	▼		▼	▼				▼▼		
1 X .035	27 X 0.90	▼	▼	▼					▼	▼	▼		
1-1/4 X .035	32 X 0.90								▼				
1-1/4 X .042	32 X 1.10	▼							▼				

- ▼ STANDARD SET - REGULAR OFFSET
- ▼ DOUBLE SET RAKER (DSR)



QUIKSILVER HEF - CARBON BAND SAW BLADES

QUIKSILVER HEF RAKER WOOD CARBON BLADES ARE DESIGNED TO BE MORE FATIGUE RESISTANT THAN CARBON HARD BACK BLADES AND ARE FOR HAND-FED WOOD CUTTING APPLICATIONS. FOR WOOD AND SOFT METAL APPLICATIONS.

- 0° RAKE ANGLE PROVIDES LONGEST LIFE FOR MANUAL CUTTING
- LONGER BLADE AND TOOTH LIFE FOR INCREASED PRODUCTIVITY

SINGLE CONSTRUCTION WITH HARDENED TOOTH TIPS

WIDTH X THICKNESS		T.P.I.															
		RAKER				WAVY			HOOK						SKIP		
IN	MM	6	10	14	18	12	14	18	1.3	2	3	4	6	2	3	4	6
3/8 X .025	9 X 0.64		▼	▼	▼	▼							▼	▼	▼	▼	
1/2 X .020	13 X 0.50			▼													
1/2 X .025	13 X 0.64	▼		▼	▼	▼	▼	▼	▼				▼▼	▼	▼	▼	
5/8 X .032	16 X 0.80												▼	▼			
3/4 X .032	19 X 0.80	▼		▼	▼	▼						▼	▼	▼	▼		
3/4 X .050	19 X 1.30											▼					
1 X .035	27 X 0.90				▼						▼	▼	▼	▼			
1-1/4 X .035	32 X 0.90										▼						
1-1/4 X .042	32 X 1.10									▼	▼						
1-1/4 X .042*	32 X 1.10									▼							
1 1/2 X .045	38 X 1.14									▼							
2 X .035	51 X 0.90										▼						
2 X .042	51 X 1.10									▼							

*"BRIGHT" SPECIFICATIONS HAVE AN UNBLUED, SILVER SURFACE FINISH.

- ▼ STANDARD SET - REGULAR OFFSET
- ▼ DOUBLE SET RAKER (DSR)


BLADE SELECTION		CARBIDE TIPPED					BI-METAL										CARBIDE GRIT								
		M-FACTOR					PREMIUM			STRUCTURAL		M42			MATRIX II				GULLETED		CONTINUOUS				
		SPARC		CH	FB+	FBS	SPARC		MAVERICK	THE MORSE ACHIEVER	CHALLENGER	POSITIVE RAKE	6° RAKE	0° RAKE	RAKER	HOOK	POSITIVE RAKE	0° RAKE	RAKER	WAVY	HOOK	MEDIUM	MEDIUM COARSE	COARSE	MEDIUM
JAWBREAKER	GES	GP	INDEPENDENCE EXS				INDEPENDENCE II																		
CATEGORY	TYPE	<div style="display: flex; justify-content: space-between; width: 100%;"> HIGHLY RECOMMENDED RECOMMENDED ACCEPTABLE </div>																							
		NON-FERROUS ALLOYS	ALUMINUM																						
BRASS																									
BRONZE																									
COPPER																									
NICKEL ALUMINUM BRONZE																									
CARBON STEEL	GENERAL																								
	A36																								
CAST IRON																									
CASE HARDENED																									
CHROME ALLOY STEELS																									
CHROME MOLY STEEL																									
CHROME VANADIUM STEEL																									
CHROMIUM STEEL																									
DUPLEX ALLOYS																									
FREE MACHINING STEEL																									
GRAPHITE																									
MAGNESIUM																									
MANGANESE STEEL																									
MARAGING STEEL																									
MOLYBDENUM STEEL																									
NICKEL AND TOOL STEEL																									
NICKEL STEELS, ALLOYS AND SUPER-ALLOYS	2317																								
	2330, 2345																								
	2512, 2517																								
	DURANICKEL																								
	INCONEL 617																								
	MONEL R																								
	R-MONEL																								
	NI-SPAN-C 962																								
	NICKEL ALLOY 617																								
	NIMONIC 75																								
	NIMONIC 90																								
	RENE 88																								
	UDIMET 500																								
	WASPALLOY																								
	HASTELLOY A																								
	HASTELLOY B																								
	HASTELLOY C																								
	INCOLOY 800 - 802																								
	INCOLOY 804 - 825																								
	INCONEL																								
	INCONEL 625-X-750																								
	INCONEL 718																								
	K-MONEL																								
	K-R-MONEL																								
	MONEL																								
RENE 41																									
NICKEL CHROME MOLY STEEL																									
NICKEL MOLY STEEL																									


BLADE SELECTION		CARBIDE TIPPED						BI-METAL								CARBIDE GRIT												
		M-FACTOR						PREMIUM			STRUCTURAL		M42			MATRIX II			GULLETED		CONTINUOUS							
		SPARC						SPARC																				
CATEGORY	TYPE	JAWBREAKER	GES	GP	CH	FB+	FBS	INDEPENDENCE EXS	INDEPENDENCE II	MAVERICK	THE MORSE ACHIEVER	CHALLENGER	POSITIVE RAKE	6° RAKE	0° RAKE	RAKER	HOOK	POSITIVE RAKE	0° RAKE	RAKER	WAVY	HOOK	MEDIUM	MEDIUM COARSE	COARSE	MEDIUM	COARSE	
STAINLESS STEEL	GENERAL																											
	AUSTENITIC																											
	FERRITIC																											
	MARTENSITIC																											
TANTALUM																												
TITANIUM ALLOYS																												
TOOL STEEL	GENERAL																											
	DIE STEELS																											
	MOLD STEELS																											
	HOT WORK, LOW ALLOY AND HIGH SPEED STEELS																											
	WATER HARDENING STEELS																											


MATERIAL SIZE (INCHES)	TEETH PER INCH												MATERIAL SIZE (mm)	
30"														762
25														635
20														508
15														381
13														330
11														279
9														229
7														178
5														127
4.5														114
4														102
3.5														89
3														76
2.75														70
2.5														64
2.25														57
2														51
1.75														44
1.5														38
1.25														32
1														25
0.75														19
0.50														13
0.25														6
	14/18	10/14	8/12	6/10	5/8	4/6	3/4	2/3	1.4/2.5	1/1.5	.75/1.0			


WALL THICKNESS (INCHES)	TEETH PER INCH	WALL THICKNESS (mm)
1/16"		- 1.8
1/8"	10/14	- 3.2
3/16"	8/12	- 4.8
1/4"	6/10	- 6.3
5/16"	5/8	- 7.9
3/8"		- 9.5
7/16"		- 11.0
1/2"		- 12.7
9/16"	4/6	- 14.3
5/8"		- 15.8
11/16"		- 17.5
3/4"		- 19.0
13/16"		- 20.6
7/8"		- 22.0
15/16"	3/4	- 23.8
1"		- 25.4
1-1/8"		- 28.6
1-1/4"		- 32.0
1-3/8"	2/3	- 35.0
1-1/2"		- 38.0


BAND SAW TOOTH PITCHES

VARIABLE PITCH - 0° RAKE	
FEATURE	
<ul style="list-style-type: none"> VARYING GULLET DEPTH 0 RAKE ANGLE VARIABLE TOOTH SPACING 	
BENEFIT	
<ul style="list-style-type: none"> EXCELLENT CHIP CARRYING CAPACITY REDUCES HARMONIC VIBRATION CUTS SMOOTHER AND MORE EFFICIENTLY 	VALUE <ul style="list-style-type: none"> IMPROVES BLADE LIFE REDUCES NOISE ELIMINATES SECONDARY OPERATIONS, IMPROVES PRODUCTIVITY

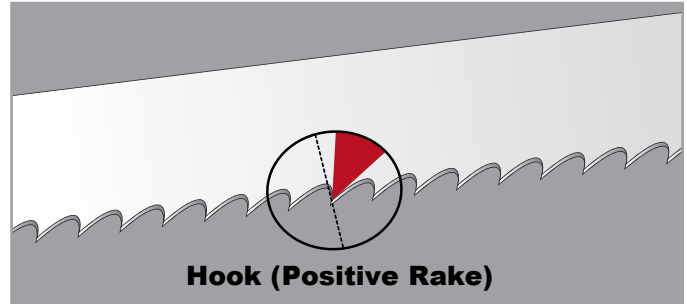
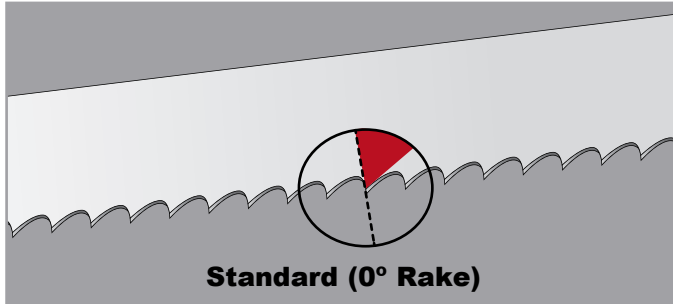
VARIABLE PITCH - POSITIVE RAKE	
FEATURE	
<ul style="list-style-type: none"> VARYING GULLET DEPTH VARIABLE TOOTH SPACING POSITIVE RAKE ANGLE 	
BENEFIT	
<ul style="list-style-type: none"> BETTER CHIP FORMATION EXCELLENT CHIP CARRYING CAPACITY REDUCES HARMONIC VIBRATION T MORE AGGRESSIVE CUTTING; BETTER TOOTH PENETRATION 	VALUE <ul style="list-style-type: none"> CUTS SMOOTHER, FASTER IMPROVES PRODUCTIVITY REDUCES NOISE LEVELS T GENERATES LESS HEAT, IMPROVES BLADE LIFE

STANDARD RAKER	
FEATURE	
<ul style="list-style-type: none"> EQUALLY SPACED TEETH 0° RAKE ANGLE 	
BENEFIT	
<ul style="list-style-type: none"> EXCELLENT CHIP CARRYING CAPACITY 	VALUE <ul style="list-style-type: none"> INCREASED PRODUCTIVITY, VERSATILITY

SKIP	
FEATURE	
<ul style="list-style-type: none"> WIDE FLAT GULLETS 0° RAKE ANGLE EQUALLY SPACED TEETH 	
BENEFIT	
<ul style="list-style-type: none"> EXCELLENT CHIP CARRYING CAPACITY NON-METALLIC, NON-FERROUS CUTTING APPLICATIONS (WOOD, PLASTIC, BRASS, COPPER, BRONZE, AND ALUMINUM) 	VALUE <ul style="list-style-type: none"> BREAKS "STRINGY" CHIPS; IMPROVES CUTTING CAPABILITY GREATER PRODUCTIVITY FOR SPECIFIC APPLICATIONS

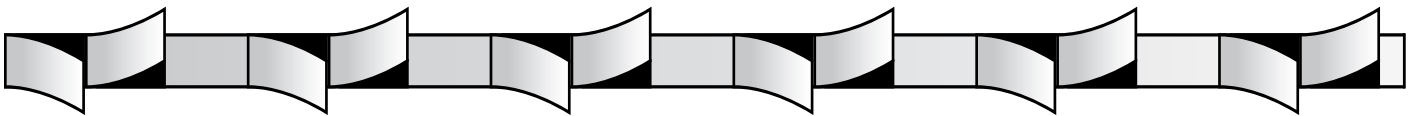
HOOK	
FEATURE	
<ul style="list-style-type: none"> WIDE ROUNDED GULLETS EQUALLY SPACED TEETH POSITIVE RAKE ANGLE 	
BENEFIT	
<ul style="list-style-type: none"> EXCELLENT CHIP CARRYING CAPACITY IN NON-METALLIC APPLICATIONS POSITIVE RAKE PROVIDES BETTER TIP PENETRATION WITH LESS FEED PRESSURE 	VALUE <ul style="list-style-type: none"> BETTER CUTTING PERFORMANCE, PRODUCTIVITY GOOD SURFACE FINISH TO ELIMINATE SECONDARY OPERATIONS

TOOTH SET SPECIFICATIONS



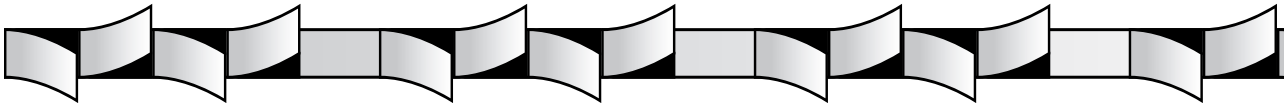
HERE'S WHERE THE BLADE MAKES THE CUT. THE TOOTH DESIGN VARIABLES INCLUDE SHAPESET, TYPE AND SPACING. THE COMBINATION OF THE VARIABLES WILL DETERMINE WHETHER THE BLADE CAN MOVE EASILY THROUGH YOUR MATERIAL WITHOUT BINDING OR BECOMING CLOGGED WITH CHIPS.

Raker



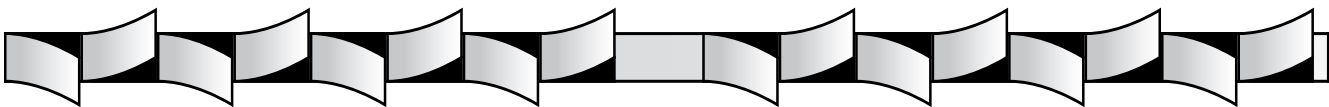
Recurring sequence of teeth - one set right, one set left, and one unset.

Modified Raker (double set raker)



Recurring sequence set left, right, left, right, straight tooth pattern.

Variable Pitch Modified Raker



Set sequence depends on the number of teeth in the variable pitch tooth pattern.
Recurring sequence with more than two set teeth before an unset tooth.

Wavy



Groups of teeth, usually 3 or 4, set to each side in a controlled pattern with an unset tooth between groups.

Alternate (ETS)



Every tooth set alternately to the left and right.

BLADE BREAK-IN

BLADE BREAK-IN: EXTREMELY IMPORTANT FOR MOST BLADES

THE EXTREMELY SHARP TOOTH POINTS AND EDGES OF NEW BLADES MUST BE BROKEN-IN BEFORE APPLYING FULL FEED PRESSURE TO THE BLADE. A GOOD ANALOGY IS THAT OF WRITING WITH A FRESHLY SHARPENED WOODEN PENCIL.

**** CARBIDE TIPPED BAND SAW BLADES ARE THE EXCEPTION AND SHOULD NOT BE BROKEN IN ****

RECOMMENDED BREAK-IN PROCEDURE

1. MAINTAIN PROPER BLADE SPEED FOR THE MATERIAL TO BE CUT.
2. REDUCE BLADE FEED PRESSURE OR FEED RATE BY 50% FOR THE FIRST 50 – 100 SQUARE INCHES OF MATERIAL CUT.
3. GRADUALLY INCREASE FEED PRESSURE OR FEED RATE AFTER BREAK-IN TO TARGET PRESSURE OR RATE.



USING METAL CHIPS TO TROUBLESHOOT

YOU CAN IMPROVE THE PRODUCTIVITY OF YOUR METAL CUTTING OPERATION BY PAYING CLOSE ATTENTION TO THE CHIPS MADE BY THE BLADE CUTTING THROUGH METAL. THIS CHART SHOWS SOME OF THE COMMON PROBLEMS THAT CAN BE DISCOVERED AND SOLVED BY PAYING ATTENTION TO CHIPS IN A LARGE VARIETY OF MATERIALS.

CHIP FORM	CHIP CONDITION	CHIP COLOR	BLADE SPEED	BLADE FEED RATE	OTHER
	THICK, HARD AND SHORT	BLUE OR BROWN	DECREASE ↓	DECREASE ↓	CHECK CUTTING FLUID AND MIX
	THIN AND CURLED	SILVER	SUITABLE ✓	SUITABLE ✓	-
	POWDER	SILVER	DECREASE ↓	INCREASE ↑	-
	THIN AND TIGHTLY CURLED	SILVER	SUITABLE ✓	DECREASE ↓	CHECK TOOTH PITCH

CUTTING FLUIDS

CUTTING FLUIDS ENHANCE SAWING EFFICIENCY AND EXTEND BLADE LIFE BY BOTH COOLING AND LUBRICATING.

A FLUID MIXTURE WITH TOO HIGH A WATER TO FLUID RATIO WILL NOT LUBRICATE PROPERLY AND MAY CAUSE RAPID TOOTH WEAR AND COULD RESULT IN BLADE FAILURE.

WHEN ADJUSTING FLUID LEVEL, NEVER ADD WATER ONLY. KEEP A PROPERLY MIXED SUPPLY OF REPLENISHING FLUID ON HAND.



Sterling® Saw Blades

Manufactured by: Diamond Saw Works, Inc.

AN E.S.O.P. COMPANY



DIAMOND SAW WORKS - EXPERIENCE AND INNOVATION AT YOUR SERVICE

FOR OVER 120 YEARS DIAMOND SAW WORKS HAS BEEN A TRUSTED NAME IN SAW BLADE MANUFACTURING.

THE MANUFACTURER OF THE STERLING® FAMILY OF WORLD CLASS SAW BLADES USES THE LATEST TECHNOLOGY TO ENSURE PRECISE AND CONSISTENT QUALITY.



NXT-CT CARBIDE TIPPED - PRODUCTION CUTTING BAND SAW

NEWEST GRADE OF CARBIDE FOR HIGHER CUTTING SPEED, LONGER BLADE LIFE, AND HIGH HEAT AND ABRASION RESISTANCE. TEMPERED STEEL BACKER OFFERS GREATER BEAM STRENGTH AND EXTENDED BLADE FATIGUE LIFE.

- TRIPLE CHIP PATTERN FOR DIFFICULT MACHINING MATERIALS
- SET TOOTH FOR ALUMINUM CASTINGS AND FOUNDRY APPLICATIONS

UNIQUE GROUND TOOTH FORM IMPROVES CUTTING ACCURACY AND OFFERS A HIGH QUALITY, SMOOTHER FINISH.

WIDTH	THICKNESS	STYLE	1/.8	1.7/1	2/1.4	3	3/2	4	4/3
1/2"	0.025	SET				943059			
		TRIPLE CHIP						943060	
3/4"	0.035	SET				943076			
		TRIPLE CHIP				943075			
		HEAVY SET				943080			
	0.042	TRIPLE CHIP				943085			
1"	0.035	SET				943096			
		TRIPLE CHIP				943095			943105
		NEGATIVE							943106
	0.042	TRIPLE CHIP				943108			
1-1/4"	0.042	TRIPLE CHIP		943121	943122	943116	943123		943127
		NEGATIVE							943128
1-1/2"	0.050	TRIPLE CHIP		943133	943134		943143		943147
		NEGATIVE					943144		
2"	0.062	TRIPLE CHIP		943172	943175		943180		943185
		SPECIAL			943176				
2-5/8"	0.062	TRIPLE CHIP		943213	943215		943214		
3"	0.062	TRIPLE CHIP	943217		943219				





EXCEL BI-METAL M42 - PRODUCTION CUTTING BAND SAW

IDEAL FOR CUTTING A VARIETY OF MODERATE TO DIFFICULT MACHINING MATERIALS WITH ABRASIVE CHARACTERISTICS IN PRODUCTION CUTTING. CUTS HIGH ALLOY, HEAT TREATED AND STAINLESS STEELS.

- HIGH TOOTH HARDNESS RC 68-69
- 8% COBALT M42 TOOL STEEL CUTTING EDGE

AVAILABLE IN BROACH, POSI AND HOOK TOOTH DESIGNS.

WIDTH	THICKNESS	SET	STYLE	1	1/8	1.5/1	2/1.4	3	3/2
3/4"	0.035	RAKER	BROACH						
1"	0.035	RAKER	HOOK					924997	
			BROACH						
1-1/4"	0.042	RAKER	POSI						925010
			HOOK	925310				925028	
1-1/2"	0.050	RAKER	BROACH	925320					
			HOOK			925053	925054		925055
			POSI						
2"	0.050	RAKER	HOOK	925329					
			POSI						925066
	0.063	RAKER	HOOK	925330					
			POSI			925086	925085		925087
2-5/8"	0.063	RAKER	BROACH						
3"	0.063	RAKER	POSI		925096	925098	925097		925099
					925100				

WIDTH	THICKNESS	SET	STYLE	4/3	6/4	8/5	10/6	12/8	14/10
3/4"	0.035	RAKER	BROACH			925002	925006	925007	925008
1"	0.035	RAKER	HOOK						
			BROACH		925017	925022	925025		
			POSI	925013	925015	925020			
1-1/4"	0.042	RAKER	HOOK						
			POSI	925037	925040	925045			
1-1/2"	0.050	RAKER	BROACH						
			HOOK	925057	925060				
			POSI			925061			
2"	0.050	RAKER	HOOK						
			POSI	925068	925069				
	0.063	RAKER	HOOK						
			POSI	925088	925089				
2-5/8"	0.063	RAKER	BROACH			925090			
3"	0.063	RAKER	POSI	925102	925095				





CUT MASTER BI-METAL M42 - PRODUCTION CUTTING BAND SAW

OPTIMIZED TOOTH DESIGN BALANCES RAKE ANGLE, GULLET DEPTH AND FLANK DESIGN FOR INCREASED TOOL LIFE WHEN TOOTH STRIPPAGE IS A PROBLEM. REDUCES VIBRATION AND CHATTER.

- TOOTH HARDNESS RC 68-69
- 8% COBALT EDGE

MODIFIED TOOTH PROFILE AND SET RESISTS STRIPPAGE AND PROVIDES BETTER FINISH

WIDTH	THICKNESS	SET	STYLE	4/3	6/4
1"	0.035	RAKER	POSI	925710	925715
1-1/4"	0.042	RAKER	POSI	925720	925725
1-1/2"	0.050	RAKER	POSI	925730	925735
2"	0.063	RAKER	POSI	925740	



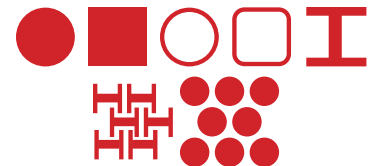
KERF PLUS BI-METAL M42 - PRODUCTION CUTTING BAND SAW

WIDER KERF/HEAVY SET TO ALLOW FOR PRODUCTION CUTTING OF PROFILES AND STRUCTURAL SHAPES THAT TEND TO BIND IN THE CUT. WIDE KERF - HEAVY SET WITH 10 DEGREE FACE ANGLE.

- TOOTH HARDNESS RC 68-69
- 8% COBALT M42 TOOL STEEL CUTTING EDGE

STRAIGHT OR MITER CUTS IN HEAVY WALLED OR FLANGED BEAMS AND STACKED OR BUNDLED STRUCTURAL OR TUBING.

WIDTH	THICKNESS	SET	STYLE	3/2	4/3	6/4
1"	0.035	RAKER	POSI			920205
1-1/4"	0.042	RAKER	POSI		920220	920221
			POSI		920222*	
1-1/2"	0.050	RAKER	POSI	920228*	920230	920231
			POSI		920232*	
2"	0.063	RAKER	POSI	920237*	920240	
			POSI		920242*	
			BROACH			920241
2-5/8"	0.063	RAKER	POSI	920250*	920252*	



*10° FACE ANGLE



MACH 12 BI-METAL M51 - PRODUCTION CUTTING BAND SAW

FOR CUTTING SOLID OR THICK WALLED MATERIALS WHICH HAVE WORK HARDENING OR ABRASIVE CHARACTERISTICS, EXOTIC METALS, SUPER ALLOYS AND SPACE AGE MATERIALS. HIGH CHROME BACKER FOR MAXIMUM TOOL LIFE.

- TOOTH HARDNESS RC 69-70
- 10% COBALT EDGE

EXCELLENT HEAT AND ABRASION RESISTANCE

WIDTH	THICKNESS	SET	STYLE	3/2	4/3	6/4
1-1/4"	0.042	RAKER	POSI	927216	927218	927220
1-1/2"	0.050	RAKER	POSI	927238	927243	927245
2"	0.063	RAKER	POSI	927254	927258	



CONTOUR BAND BI-METAL M42 - PRODUCTION CUTTING BAND SAW

IDEAL FOR CONTOUR OR STRAIGHT CUTTING APPLICATIONS WHEN A NARROW BAND SAW BLADE IS REQUIRED, SUCH AS INTERNAL CUTTING AND DIE WORK.

- TOOTH HARDNESS RC 68-69
- 8% COBALT EDGE

WIDTH	THICKNESS	SET	STYLE	3	4	6	10	10/6	12/8
3/4"	0.035	RAKER	HOOK			923014			
			BROACH						
3/4"	0.035	RAKER	CONSTANT				923005		
3/4"	0.035	RAKER	BROACH						
3/4"	0.035	RAKER	HOOK		923012	923022			
			CONSTANT				923020		
3/4"	0.035	RAKER	HOOK		923046	923032			
			CONSTANT				923033		
			BROACH					923036	923037
3/4"	0.035	RAKER	HOOK	923047					
			CONSTANT						
			BROACH					923060	

WIDTH	THICKNESS	SET	STYLE	14	14/10	18/14
3/4"	0.035	RAKER	HOOK			
			BROACH		923015	923017
3/4"	0.035	RAKER	CONSTANT	923010		
3/4"	0.035	RAKER	BROACH		923028	
3/4"	0.035	RAKER	HOOK			
			CONSTANT			
3/4"	0.035	RAKER	HOOK			
			CONSTANT	923041		
			BROACH		923043	923044
3/4"	0.035	RAKER	HOOK			
			CONSTANT	923055		
			BROACH		923067	





NEW WAVE BI-METAL MATRIX II - GENERAL PURPOSE BAND SAW

FOR STRUCTURAL, TUBING AND TROUBLESOME INTERRUPTED CUTS. THE SET PATTERN HELPS REDUCE TOOTH STRIPPAGE PROBLEMS. EXCELLENT FOR MAINTENANCE DEPARTMENTS.

- TOOTH HARDNESS RC 68-69
- 8% COBALT M42 TOOL STEEL CUTTING EDGE

LIGHT FABRICATION OF MILD STEEL, MAINTENANCE, TOOL ROOM AND REPAIR SHOPS

WIDTH	THICKNESS	SET	STYLE	8/5	10/6	12/8	14/10	18/14
1/4"	0.025	WAVY	BROACH				923016	923018
3/8"	0.025	WAVY	BROACH					923031
1/2"	0.020	WAVY	BROACH					923052
	0.025	WAVY	BROACH				923049	923051
3/4"	0.035	WAVY	BROACH	923113	923118	923121	923124	923126
1"	0.035	WAVY	BROACH	923166	923172	923176	923178	
1-1/4"	0.042	WAVY	BROACH	923228	923231	923234		
1-1/2"	0.050	WAVY	BROACH	923253				
2"	0.050	WAVY	BROACH	923255				
	0.063	WAVY	BROACH	923260				





SUPER WELD BI-METAL MATRIX II - GENERAL PURPOSE BAND SAW

FOR GENERAL PURPOSE SAWING ON VERTICAL AND HORIZONTAL MACHINES. INTERRUPTED CUTS IN PIPE, STRUCTURALS AND SOLID MATERIAL. NARROW WIDTHS FOR VERTICAL BAND SAW MACHINES.

- TOOTH HARDNESS RC 68-69
- 8% COBALT M42 TOOL STEEL CUTTING EDGE

MAINTENANCE, TOOL ROOM, REPAIR SHOPS, AND LIGHT FABRICATION OF MILD STEEL

WIDTH	THICKNESS	SET	STYLE	1.2	3	3/2	4/3	6/4	8/5	10
1/2"	0.020	RAKER	CONSTANT							923030
			BROACH							
		WAVY	CONSTANT							
5/8"	0.032	RAKER	BROACH							
3/4"	0.035	RAKER	HOOK		923075					
			CONSTANT							923090
			BROACH				923107	923112		
1"	0.035	RAKER	CONSTANT							923150
			BROACH				923162	923167		
1-1/4"	0.042	RAKER	POSI			923215	923217			
			BROACH					923222	923227	

WIDTH	THICKNESS	SET	STYLE	10/6	12/8	14	14/10	18	18/14	24
1/2"	0.020	RAKER	CONSTANT			923030		923040		
			BROACH				923038		923034	
		WAVY	CONSTANT							923039
5/8"	0.032	RAKER	BROACH	923072			923074			
3/4"	0.035	RAKER	HOOK							
			CONSTANT			923095				
			BROACH	923115	923120		923122		923123	
1"	0.035	RAKER	CONSTANT							
			BROACH	923170	923175		923177			
1-1/4"	0.042	RAKER	POSI							
			BROACH	923230						



SUPER WELD MX BI-METAL PORTABLE BAND SAW BLADES

WIDTH	THICKNESS	LENGTH	SET	STYLE	10	14	14/10	18	18/14	24
1/2"	0.020	3' 8-7/8"	RAKER	CONSTANT	23900	23903		23906		
			WAVY	CONSTANT						23907
			RAKER	BROACH			23908		23905	
			WAVY	BROACH					23904	

FEATURES & BENEFITS

- 8% COBALT MATRIX II
- PROVIDES EXCELLENT LIFE IN TOUGH CUTTING APPLICATIONS
- AVAILABLE 5 PER PACK OR BULK 100
- OTHER SIZES AVAILABLE UPON REQUEST



TRI-TEMP HARD EDGE HARD BACK - GENERAL PURPOSE BAND SAW

LIGHT DUTY PRODUCTION BLADE. USE WHERE ADDITIONAL BEAM STRENGTH IS BENEFICIAL. NOT RECOMMENDED FOR BAND SPEEDS OVER 4,000 SURFACE FEET PER MINUTE. AN ECONOMY BLADE FOR MILD STEEL CUTTING.

- SPECIAL HEAT TREATING PROCESS
- SPRING TEMPERED HARDNESS ON TOOTH EDGE AND BACK

TOOL ROOM CUTTING

WIDTH	THICKNESS	SET	STYLE	3	4	6	6/4	8	10
1/4"	0.025	RAKER	CONSTANT						914040
			BROACH						
3/8"	0.025	RAKER	SKIP	914085	914095				
			HOOK		914090	914100			
1/2"	0.025	RAKER	HOOK		914170	914180			
			CONSTANT			914185			914190
			BROACH						
		WAVY	CONSTANT						
3/4"	0.032	RAKER	HOOK	914275					
			CONSTANT			914295		914300	914310
			BROACH						
1"	0.035	RAKER	CONSTANT						
			POSI				914420		
			BROACH						

WIDTH	THICKNESS	SET	STYLE	10/6	12/8	14	14/10	18
1/4"	0.025	RAKER	CONSTANT					
			BROACH				914070	
3/8"	0.025	RAKER	SKIP					
			HOOK					
1/2"	0.025	RAKER	HOOK					
			CONSTANT			914200		914210
			BROACH	914225			914235	
		WAVY	CONSTANT			914205		
3/4"	0.032	RAKER	HOOK					
			CONSTANT			914330		
			BROACH	914350	914355		914360	
1"	0.035	RAKER	CONSTANT			914410		
			POSI					
			BROACH	914430	914435			



CARBON HARD EDGE FLEX BACK - GENERAL PURPOSE BAND SAW

LIGHT DUTY PRODUCTION BLADE FOR EASY TO MACHINE MATERIALS. ALUMINUM, BRASS AND OTHER SOFT MATERIALS, STRAIGHT, CONTOUR AND RESAWING. FLEXIBLE BODY TO RUN AT HIGH SPEEDS.

- TOOTH HARDNESS RC 64-65
- TEETH ARE FLAME HARDENED FOR DURABILITY

HOBBY AND PRODUCTION WOOD WORKING

WIDTH	THICKNESS	SET	STYLE	2	3	4	6	8	10
3/16"	0.025	RAKER	SKIP			911012			
			CONSTANT						911015
1/4"	0.025	RAKER	HOOK			911035	911045		
			SKIP				911050		
			CONSTANT						911055
		WAVY	CONSTANT						
3/8"	0.025	RAKER	HOOK		911095	911105	911115		
			SKIP			911110			
			CONSTANT						911125
1/2"	0.025	RAKER	HOOK				911200		
			HOOK**						
			SKIP						
			CONSTANT				911205		911210
		WAVY	CONSTANT						
5/8"	0.032	RAKER	HOOK						
			CONSTANT						911285
3/4"	0.032	RAKER	HOOK				911320		
			CONSTANT				911325	911330	911335
1"	0.035	RAKER	HOOK						
			CONSTANT				911395		911405
1-1/4"	0.042	RAKER	HOOK						

WIDTH	THICKNESS	SET	STYLE	14	18	24
3/16"	0.025	RAKER	SKIP			
			CONSTANT	911015		
1/4"	0.025	RAKER	HOOK			
			SKIP			
			CONSTANT	911065	911070	
		WAVY	CONSTANT			911075
3/8"	0.025	RAKER	HOOK			
			SKIP			
			CONSTANT	911130		
1/2"	0.025	RAKER	HOOK			
			HOOK**			
			SKIP			
			CONSTANT	911220	911230	
		WAVY	CONSTANT			911235
5/8"	0.032	RAKER	HOOK			
			CONSTANT			
3/4"	0.032	RAKER	HOOK			
			CONSTANT	911355		
1"	0.035	RAKER	HOOK			
			CONSTANT			
1-1/4"	0.042	RAKER	HOOK			

** HEAVY SET

BI-METAL BAND CUTTING GUIDELINES

TOOTH AND SPEED SELECTION CHART

MATERIAL TO CUT		BI-METAL BAND	S.F.P.M.	CUT RATE SQ. IN./MIN.	FEED PRESSURE	TOOL LIFE SQ. IN./FT.	MATERIAL CHARACTERISTICS
LOW CARBON	1010-1019	MATRIX II	300-350	11 TO 15	MEDIUM/LIGHT	650 TO 800	FREE MACHINING
MEDIUM CARBON	1020-1050	MATRIX II	190-225	7 TO 9	MEDIUM/LIGHT	425 TO 700	FREE MACHINING
HIGH CARBON	1055-1095	MATRIX II	145-170	6 TO 8	MEDIUM	300 TO 400	FREE MACHINING
FREE MACHINING	1109-1113	MATRIX II	300-350	12 TO 15	MEDIUM/LIGHT	700 TO 850	FREE MACHINING
FREE MACHINING	1115-1213	MATRIX II	200-250	8 TO 10	MEDIUM/LIGHT	500 TO 750	FREE MACHINING
MANGANESE	1320-1340	M42/M51*	175-220	6 TO 8	MEDIUM	330 TO 375	WORK HARDENING
NICKEL	2015-2517	M42/M51*	225-250	6 TO 7	MEDIUM	250 TO 300	WORK HARDENING
NICKEL	2320-2350	M42/M51*	145-170	5 TO 6	MEDIUM	250 TO 300	WORK HARDENING
NICKEL	2512-2515	M42/M51*	175-200	4 TO 5	MEDIUM	250 TO 300	WORK HARDENING
NICKEL-CHROME	3115-3150	M42	125-160	6 TO 9	MEDIUM	275 TO 350	TENDENCY TO CHIP WELD
NICKEL-CHROME	3215-3240	M42/M51*	110-140	5 TO 8	MEDIUM	250 TO 300	WORK HARDENING
NICKEL-CHROME	3415-3450	M42/M51*	90-125	4 TO 6	MEDIUM/HEAVY	250 TO 300	WORK HARDENING
MOLYBDENUM	4023-4037	MATRIX II	230-270	6 TO 8	MEDIUM	350 TO 375	ABRASIVE
MOLYBDENUM	4042-4063	MATRIX II	180-220	5 TO 7	MEDIUM/HEAVY	325 TO 350	ABRASIVE
CHROME-MOLY	4120-4140	M42/M51*	185-210	5 TO 7	MEDIUM	275 TO 350	WORK HARDENING/ ABRASIVE
CHROME-MOLY	4320-4340	M42/M51*	180-230	5 TO 7	MEDIUM	250 TO 325	WORK HARDENING/ ABRASIVE
NICK-CHRO-MOLY	8620-8750	M42	175-230	5 TO 7	MEDIUM	275 TO 425	GOOD CUTTING CHARACTERISTICS
NICK-CHRO-MOLY	9310-9850	M42/M51*	160-220	4 TO 6	MEDIUM/HEAVY	175 TO 300	WORK HARDENING
NICKEL-MOLY	4615-4640	M42/M51*	210-240	5 TO 7	MEDIUM	275 TO 300	WORK HARDENING
NICKEL-MOLY	4812-4820	M42/M51*	175-190	4 TO 6	MEDIUM/HEAVY	225 TO 275	WORK HARDENING
CHROME	5120-5160	M42	190-230	6 TO 8	MEDIUM	225 TO 350	GOOD CUTTING CHARACTERISTICS
CHROME	50100-52100	M42/M51*	150-185	4 TO 6	MEDIUM	200 TO 275	ABRASIVE
CHRO-VAN-SILICON	6115-6120	M42	160-225	3 TO 6	MEDIUM	200 TO 275	ABRASIVE
SILICON	9255-9262	M42	175-210	8 TO 16	MEDIUM	175 TO 250	EXTREMELY ABRASIVE
STAINLESS	201-304	M42/M51*	80-125	2 TO 4	MEDIUM/HEAVY	275 TO 300	WORK HARDENING
STAINLESS	308-348	M42/M51*	55-80	1 TO 2	MEDIUM/HEAVY	100 TO 250	WORK HARDENING
STAINLESS	410-430	M42/M51*	110-150	2 TO 4	MEDIUM	125 TO 250	WORK HARDENING/ ABRASIVE
STAINLESS	440 & 17- SERIES	M42/M51*	75-110	1 TO 2	MEDIUM/HEAVY	125 TO 175	WORK HARDENING/ ABRASIVE
TOOL STEEL	M1, M2, M3, T1, T2	M42/M51*	120-150	3 TO 5	MEDIUM/HEAVY	125 TO 175	WORK HARDENING/ ABRASIVE
DIE STEEL	O-1, O-2, O-6, O-7	M42/M51*	175-210	3 TO 5	MEDIUM/HEAVY	225 TO 350	WORK HARDENING/ ABRASIVE
DIE STEEL	A-2, A-4	M42/M51*	180-220	3 TO 4	MEDIUM/HEAVY	200 TO 250	WORK HARDENING/ ABRASIVE
DIE STEEL	D-2, D-3, D-4	M42/M51*	90-120	2 TO 3	MEDIUM/HEAVY	125 TO 175	WORK HARDENING/ ABRASIVE
HOT WORK STEEL	H12, H13, H21	M42	160-200	4 TO 5	MEDIUM	275 TO 325	ABRASIVE
HOT WORK STEEL	H22, H24, H25	M42	130-175	2 TO 4	MEDIUM/HEAVY	175 TO 225	ABRASIVE
MONEL	-	M42/M51*	60-90	.5 TO 4	MEDIUM/HEAVY	50 TO 100	EXTREMELY WORK HARDENING
INCONEL	-	M42/M51*	50-80	.5 TO 4	MEDIUM/HEAVY	25 TO 70	EXTREMELY WORK HARDENING
HASTELLOY	-	M42/M51*	50-80	.5 TO 4	MEDIUM/HEAVY	55 TO 100	EXTREMELY WORK HARDENING
TITANIUM	-	M42/M51*	40-60	.5 TO 4	MEDIUM/HEAVY	25 TO 60	EXTREMELY WORK HARDENING
ALUMINUM	2011-7075	MATRIX II	325-400	14 TO 25	MEDIUM/LIGHT	175 TO 275	ABRASIVE/ CHIP BUILDUP
COPPER	-	MATRIX II	275-350	6 TO 8	MEDIUM/LIGHT	250 TO 600	GOOD CUTTING CHARACTERISTICS
BRONZE	-	MATRIX II	225-300	14 TO 18	MEDIUM/LIGHT	200 TO 425	GOOD CUTTING CHARACTERISTICS
BRASS RED	-	MATRIX II	225-300	14 TO 18	MEDIUM/LIGHT	225 TO 400	GOOD CUTTING CHARACTERISTICS
BRASS, NAVAL	-	MATRIX II	275-350	10 TO 14	MEDIUM/LIGHT	-	GOOD CUTTING CHARACTERISTICS
CAST IRON	-	MATRIX II	165-225	-	MEDIUM	-	-
CAST STEEL	-	MATRIX II	110-225	-	MEDIUM	-	-
STRUCTURAL	-	MATRIX II	175-250	-	MEDIUM/LIGHT	-	TOOTH BREAKAGE POTENTIAL

MADE IN AMERICA. STERLING SAW BLADES ARE MANUFACTURED IN CHAFFEE, NEW YORK, USA.

GENERAL TROUBLESHOOTING

LOCATE YOUR PROBLEM BELOW AND FOLLOW ACROSS THE ROW TO LOCATE THE POSSIBLE CAUSES, MARKED WITH AN 'X'. FOLLOW THE COLUMN TO THE TOP TO DETERMINE THE POSSIBLE CAUSE. CLICK ON THE CAUSE FOR MORE INFORMATION.

		POSSIBLE CAUSES							
									BAND TRACKING
								CHIP BRUSH	
							CUTTING FLUID		
						TOOTH PITCH			
					FEED RATE				
		BREAK-IN PROCEDURE							
BAND TENSION									
BAND SPEED									
GUIDE									
PROBLEMS	HEAVY WEAR ON TIPS & CORNERS OF TEETH		X		X	X		X	
	TOOTH STRIPPAGE		X		X	X	X	X	
	BUTT WELD BREAKAGE	X		X		X			X
	BODY BREAKAGE OR CRACKS FROM GULLETS	X		X					
	BODY BREAKAGE OR CRACKS FROM BACK EDGE	X		X		X			X
	HEAVY WEAR AND SWAGGING OF BACK EDGE	X				X			X
	BROKEN BAND SHOWS A TWIST IN BAND LENGTH	X		X		X			X
	CHIPS WELDED TO TOOTH TIPS		X			X		X	X
	HEAVY WEAR ON BOTH SIDES OF BAND	X						X	
	GULLETS LOADING UP WITH MATERIAL					X	X	X	X
	FRACTURED TOOTH TIPS		X		X	X	X		X
	ROUGH CUT	X	X			X	X	X	
	INACCURATE CUT	X		X	X	X	X	X	

AS WITH ANY MANUFACTURER, SAW BLADE COMPANIES MAINTAIN STRICT PRODUCTION QUALITY CONTROL STANDARDS IN ORDER TO PROVIDE THE BEST POSSIBLE PRODUCT TO THEIR CUSTOMERS. EXCEPT FOR WELD BREAKS, MOST SAW CUTTING PROBLEMS ARE CAUSED BY A COMBINATION OF INCORRECT SPEEDS AND FEEDS, OPERATIONAL PROCEDURES OR AN IMPROPERLY MAINTAINED SAW.

BREAK-IN PROCEDURE

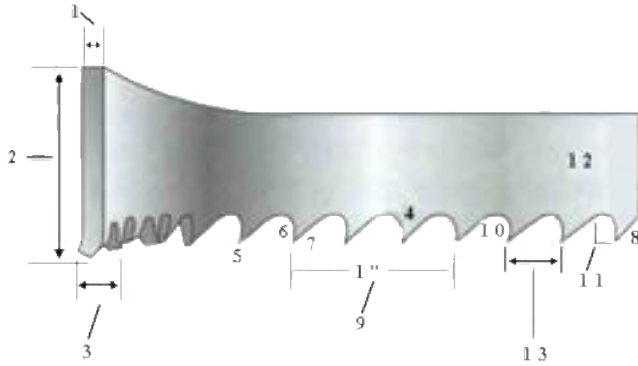
BREAK-IN A NEW BAND ACCORDING TO MANUFACTURER'S INSTRUCTIONS, USING THE SAME MATERIAL AS WILL BE CUT. MINIMUM BREAK-IN PROCEDURE WOULD BE TO SET BAND SPEED ACCORDING TO THE CORRECT SPEED CHART. REDUCE FEED PRESSURE 1/2 OR 1/3 OF THE RECOMMENDED RATE. CUT SQUARE INCHES RECOMMENDED BY THE MANUFACTURER OF THE BLADE. AFTER BREAK-IN, GRADUALLY INCREASE FEED PRESSURE UNTIL IDEAL CHIP CURL IS REACHED.

BAND TENSION

BLADE TYPE	RECOMMENDED TENSION (PER SQUARE INCH)
FLEX BACK CARBON BAND SAW BLADES	15,000-20,000 PSI
HARD BACK CARBON BAND SAW BLADES	20,000-25,000 PSI
BI-METAL BAND SAW BLADES	25,000-35,000 PSI

BAND SAW BLADE ORDERING INSTRUCTIONS

- QUANTITY
- ITEM NUMBER
- COIL OR BLADE LENGTH(FEET & INCHES) *COILS 150'/250' *1-1/2" AND OVER 150' ONLY
- BLADE WIDTH
- TEETH PER INCH/GRIT
- SET (RAKER, WAVY, E.T.S.)
- STYLE(SKIP, HOOK, CONSTANT, BROACH AND POSI TOOTH)
- BLADE TYPE(SPECIFIC BRAND NAME)



1. GAGE – THE THICKNESS OF THE BLADE.
2. BLADE WIDTH – THE DISTANCE FROM THE TIP OF THE TOOTH TO THE BACK EDGE OF THE BLADE.
3. SET – THE BENDING OF TEETH RIGHT OR LEFT TO ALLOW CLEARANCE OF THE BACK THROUGH THE CUT.
4. TOOTH BACK – THE SURFACE OF THE TOOTH OPPOSITE THE TOOTH FACE.
5. TOOTH TIP – THE CUTTING EDGE OF THE TOOTH.
6. TOOTH FACE – THE SURFACE OF THE TOOTH ON WHICH THE CHIP IS FORMED.
7. TOOTH – THE CUTTING PORTION OF THE SAW BLADE.
8. TOOTH RAKE ANGLE – THE ANGLE OF THE TOOTH FACE MEASURED TO A LINE PERPENDICULAR TO THE CUTTING DIRECTION OF THE SAW.
9. T.P.I. – THE NUMBER OF TEETH PER INCH.
10. GULLET – THE CURVED AREA AT THE BASE OF THE TOOTH.
11. GULLET DEPTH – THE DISTANCE FROM THE TOOTH TIP TO THE BOTTOM OF THE GULLET.
12. BLADE BACK – THE BODY OF THE BLADE NOT INCLUDING THE TOOTH PORTION.
13. TOOTH PITCH – THE DISTANCE FROM THE TIP OF ONE TOOTH TO THE TIP OF THE NEXT TOOTH.

CORRECT TOOTH SELECTION

WHEN THE TIME COMES TO SELECT THE RIGHT NUMBER OF TEETH, TRY THE FOLLOWING RULE OF THUMB:

3 – 6 – 9 – 20

YOU SHOULD HAVE A MINIMUM OF 3 TEETH IN THE WORK AT ALL TIMES; HAVING 6 TO 9 TEETH IN THE WORK IS THE OPTIMUM NUMBER; BUT MORE THAN 20 IS TOO MANY TEETH IN THE WORK. THERE HAVE BEEN ADVANCES IN BLADE DESIGN AND MANUFACTURE, PLUS SOME TESTING RESULTS WHICH TELL US THE FOLLOWING:

- A. WHEN CUTTING MILD MATERIALS ON A BAND SAW YOU SHOULD USE THE 3 – 6 – 9 – 20 FORMULA.
- B. WHEN CUTTING HARD MATERIALS ON A BAND SAW, A FEW MORE TEETH IN THE WORK PIECE WILL PRODUCE BETTER BLADE LIFE. THIS WILL NOT REDUCE THE CUTTING TIME APPRECIABLY, BUT WILL INCREASE BLADE LIFE.
- C. WHEN CUTTING TOUGH MATERIALS (ALLOYS CONTAINING NICKEL AND SPACE-AGE MATERIALS), A POSITIVE TOOTH SHOULD BE USED.

CONSTANT PITCH

THE CONSTANT PITCH TOOTH DESIGN IS WIDELY USED FOR BOTH CUTOFF AND CONTOUR WORK AND MAY BE USED FOR FERROUS AND NON-FERROUS MATERIALS. ALL CONSTANT PITCH TOOTH CONFIGURATIONS HAVE A FIXED NUMBER OF TEETH PER INCH. AVAILABLE IN BOTH RAKER OR WAVY SET, DEPENDING ON TOOTH PITCH SELECTED.

SKIP TOOTH

THE SKIP TOOTH DESIGN HAS GREATER GULLET CAPACITY FOR BETTER CHIP CLEARANCE ON SOFTER METALS, WOODS, PLASTICS OR COMPOSITION MATERIALS. AS THE NAME IMPLIES, EVERY OTHER TOOTH IS REMOVED OR SKIPPED, WITHOUT WEAKENING THE OVERALL BLADE.

HOOK TOOTH

THE HOOK TOOTH IS SIMILAR TO THE SKIP TOOTH EXCEPT THE TOOTH FACE HAS A 10° RAKE ANGLE WHICH “HOOKS” OR BITES INTO THE MATERIAL MORE EFFICIENTLY, AND PENETRATES THE MATERIAL BETTER, EVEN AT REDUCED FEED PRESSURES.

BROACH TOOTH

THE BROACH TOOTH WAS THE ORIGINAL “VARIED PITCH” DEVELOPED BY DIAMOND SAW WORKS, INC. AS EARLY AS 1937. ITS GENERATING CUTTING ACTION IS ACCOMPLISHED BY VARYING THE TOOTH PITCH AND SET ANGLES, GIVING MARKED IMPROVEMENT IN A BLADE’S CUTTING SPEED AND LIFE, SMOOTHNESS OF CUT AND GREATLY REDUCES NOISE AND VIBRATION IN THE CUTTING APPLICATION. AN EXCEPTIONAL TOOTH DESIGN FOR THE TOUGHER CUTTING JOBS. BROACH TOOTH BLADES HAVE A SPECIAL SET.

POSI TOOTH

THE POSI TOOTH IS AN IMPROVED VARIETY OF THE BROACH TOOTH BLADE WHEN A POSITIVE RAKE ANGLE IS DESIRED. THE HOOK TOOTH DESIGN HAS BEEN APPLIED TO THE PROVEN PRINCIPLE OF THE BROACH TOOTH, GIVING ADDITIONAL VALUE AND PERFORMANCE. ALL POSI TOOTH BLADES HAVE A SPECIAL SET.

PROPER SET SELECTION

RAKER SET

WIDELY USED ON ALL TYPES OF BLADES AND TEETH. ITS PATTERN IS ONE TOOTH SET LEFT, ONE TOOTH SET RIGHT WITH THE THIRD TOOTH STRAIGHT OR UNSET. THIS PATTERN ALLOWS FOR FAST, EFFICIENT CUTTING AND UNIFORM SAW KERF. GENERALLY USED ON SOLIDS AND THICKER SECTIONS.

WAVY SET

GROUPINGS OF TEETH ARE ALTERNATELY SET TO THE LEFT AND TO THE RIGHT, FORMING A WAVE PATTERN. USED FOR CUTTING THIN OR INTERRUPTED SECTIONS WHERE TOOTH BREAKAGE OR STRIPPING IS EXPERIENCED. BECAUSE A GROUP OF TEETH ARE SET LEFT, THEN RIGHT, THE STRAIN ON EACH INDIVIDUAL TOOTH IS REDUCED.

E.T.S. (EVERY TOOTH SET)

EACH TOOTH IS SET ALTERNATELY LEFT, THEN RIGHT. USED GENERALLY IN WOODWORKING OR FOR NONFERROUS METALS. ALSO KNOWN AS ALTERNATE SET.

NOTE: BROACH TOOTH AND POSI TOOTH BLADES ARE SPECIALLY SET TO SUIT EACH TOOTH DESIGN. DOES NOT NECESSARILY CONFORM TO ANY OF THE ABOVE DESCRIPTIONS.

FREQUENTLY ASKED QUESTIONS

HOW DO I KNOW WHETHER TO USE A BI-METAL OR A CARBON BLADE?

MOST GENERALLY THE MATERIAL THAT YOU ARE TRYING TO CUT IS GOING TO DETERMINE WHAT TYPE OF BLADE THAT YOU NEED. A BI-METAL BLADE WOULD BE RECOMMENDED FOR CARBON STEELS, TOOL STEEL, STAINLESS STEEL, ALLOYED STEELS AND METAL WORKING APPLICATIONS.

A CARBON BAND WOULD BE USED FOR WOOD, PLASTIC, FIBERGLASS, NON-FERROUS MATERIALS AND THINGS OF THAT NATURE. ANOTHER FACTOR THAT COMES INTO PLAY WOULD BE THE PERFORMANCE LEVELS YOU ARE LOOKING TO GET FROM YOUR BLADE, SINCE IN SOME CASES YOU WOULD USE A BI-METAL OVER A CARBON TYPE BLADE TO GET EXTENDED WEAR LIFE.

WHEN SHOULD I USE A BROACH TOOTH BLADE VS A POSI-TOOTH BLADE?

A BROACH TOOTH PATTERN IS A TOOTH FORM WITH A ZERO DEGREE FACE ANGLE. THIS IS USED IN APPLICATIONS WHERE YOU ARE CUTTING CROSS SECTIONS THAT MAY VARY IN SIZE, BEING NARROW IN ONE POINT AND WIDER IN OTHER POINTS THROUGHOUT THE CUT. INTERRUPTED TYPES OF CUTS LIKE PIPE, TUBING, CHANNEL IRON AND ANGLE IRON, OR SMALLER TYPES OF CROSS SECTIONS IS WHEN A BROACH TOOTH SHOULD BE USED.

A POSI-TOOTH PATTERN HAS A MORE AGGRESSIVE CUTTING ACTION. THIS SHOULD BE USED ON SOLID TYPES OF MATERIALS OR VERY HEAVY WALLED MATERIALS. POSITIVE TOOTH FACE MAKES FOR EASIER CHIP GENERATION IN THESE TYPES OF MATERIALS.

HOW DO I KNOW WHAT TOOTH PITCH IS NEEDED?

WHEN IT COMES TIME TO SELECT THE RIGHT NUMBER OF TEETH FOR AN APPLICATION, KEEP THIS RULE OF THUMB IN MIND:

THE 3-6-9-20 RULE IS THAT YOU SHOULD HAVE A MINIMUM OF 3 TEETH IN THE WORK AT ALL TIMES. HAVING 6 TO 9 TEETH IN THE WORK IS THE OPTIMUM NUMBER, BUT MORE THAN 20 IS TOO MANY. USING THIS RULE OF THUMB WILL ALLOW YOU TO GET THE OPTIMUM CUTTING PERFORMANCE OUT OF YOUR SAW BLADE.

WHY IS A BREAK-IN PROCEDURE SO IMPORTANT TO A BAND SAW BLADE?

BAND SAW BLADES HAVE VERY SHARP TEETH ON THEM FROM THE MILLING OPERATION (THIS IS WHAT FORMS THE TEETH). THEREFORE, THE TEETH NEED TO BE HONED BEFORE YOU GET INTO PRODUCTION CUTTING. IF YOU DO NOT BREAK A BAND SAW BLADE IN PROPERLY, YOU CAN DAMAGE THE TIPS OF THE TEETH, CREATING A JAGGED EDGE, WHICH WILL ACCELERATE THE WEAR ON THE TEETH. THIS WILL SHORTEN THE LIFE OF YOUR BLADE.

TO BREAK A BAND SAW BLADE IN YOU SHOULD SELECT THE CORRECT SPEED FOR THE MATERIAL YOU ARE CUTTING, AND THEN REDUCE YOUR FEED PRESSURE BY 30-50%. BEGIN CUTTING AT THE REDUCED FEED RATE; MAKE GRADUAL INCREASES AS YOU CUT 50 TO 100 SQUARE INCHES OF MATERIAL; AT THIS POINT YOU SHOULD BE AT YOUR NORMAL CUTTING RATE.

HOW DO I KNOW THAT I AM USING THE RIGHT SPEED AND FEED PRESSURE WHEN I AM CUTTING?

A CORRECT BAND SPEED ACHIEVES A CORRECT SHEAR ANGLE, PRODUCING AN IDEAL CHIP AND MORE EFFICIENT CUTTING. IF THE BAND SPEED IS TOO HIGH, IT WILL ALLOW THE BAND TO RIDE THROUGH THE MATERIAL, PRODUCING THIN CHIPS AND WEARING THE CUTTING EDGES OF THE TEETH. IF THE BAND SPEED IS LOWER THAN RECOMMENDED, THE TOOTH TRIES TO TAKE CHUNKS OF MATERIAL, CAUSING STRESS ON THE TOOTH, POSSIBLE BREAKAGE OR STALLING IN THE WORK PIECE.

IDENTIFY THE MATERIAL YOU ARE CUTTING, LOCATE IT OR MATERIAL CLOSE TO THE SAME CHARACTERISTICS ON THE BAND SPEED CHART AND ADJUST SPEED ACCORDINGLY.



SLIDE PRODUCTS PROCESSING AIDS

FOR PLASTICS MANUFACTURERS AND MOLD MAKERS

SOLUTIONS FOR YOUR PLASTICS PROCESSING & MOLD MAKING PROBLEMS

HERE'S YOUR GUIDE TO CHOOSING THE BEST MOLD RELEASES, EJECTOR PIN GREASES, MOLD CLEANERS, PURGING COMPOUNDS, RUST PREVENTIVES AND OTHER PROCESSING PRODUCTS. ALL ARE CAREFULLY FORMULATED TO HELP PLASTICS MANUFACTURERS AND MOLD MAKERS MAXIMIZE THEIR PRODUCTIVITY.

PLASTICS PROCESSING

OPTIMIZE YOUR CYCLE TIMES, REDUCE WASTE, ELIMINATE DEFECTS AND MAXIMIZE MOLD LIFE.

MOLD MAKING

QUICKLY CLEAN YOUR MOLDS, PROTECT THEM FROM RUST AND ENSURE SMOOTH PERFORMANCE.

IF YOU DON'T WANT IT TO STICK, MAKE IT SLIDE

FIND THE RIGHT PRODUCT FROM SLIDE:



MOLD RELEASES

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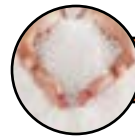
LOST WAX CASTING

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EJECTOR PIN GREASE

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PURGING COMPOUNDS

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MOLD CLEANERS

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ACCESSORIES

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RUST PREVENTIVES

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MRO SOLUTIONS

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WORK BETTER. SMARTER. FASTER. WITH PRODUCTS THAT MAKE IT SLIDE!

MOLDSHOPSUPPLIES.COM IS A PROUD PLATINUM DISTRIBUTOR OF SLIDE PRODUCTS

D.W. SALES AND KELDON COMPANY HAVE EARNED THE "PLATINUM" DESIGNATION BY MEETING SLIDE PRODUCTS' CRITERIA FOR THE HIGHEST LEVEL OF CUSTOMER SUPPORT AND WE ARE CARRYING THE BROADEST SELECTION OF SLIDE'S PRODUCTS, STOCKED AND READY TO SHIP.

Having your own local Slide Products' distributor has its advantages. You get great service and technical assistance. And since we are local, you get your order fast.

Slide Makes Choosing Easier For You

We know the right mold release with the right formulation is critical to your productivity. Slide Products helps you make it easier to choose.

Simply review the chart below and pick the product with the characteristics that are critical to you.

Free Samples Make Testing Easier

Slide knows the proof of effectiveness is right at the mold. Together, we offer you free samples to test in your plant, so you can try it before you buy it.

Once you choose the releases you feel are right for you, call us to get your free samples or additional assistance in choosing the right release for you.

Finding the Right Mold Release

Slide mold release agents are available as aerosol sprays and bulk liquids, in a variety of formulations for engineered resins, thermosets, epoxies, and deep draw molding. From light duty to heavy duty, food-grade and NSF-certified, medical part molding, paintable, non-silicone, specialty releases and mold releases for investment wax castings, Slide's array of high-quality formulations ensures the best results for every application.

 **INDICATES MOST RECOMMENDED**

This release recommendation chart is intended to be a general guide based on field testing performed over the last 65 years.

Always pre-test any release with a particular resin. Mold configuration and condition can greatly affect part release ability.

MOLD RELEASE CHARACTERISTICS	LIGHT-DUTY MOLD RELEASES									HEAVY-DUTY MOLD RELEASES				SPECIALTY MOLD RELEASES			THERMOSET RELEASES					
	SL41612N	SL40012N	SL45712N	SL46612N	SL40510P	SL40710P	SL40810P	SL44612E	SL44712E	SL44812E	SL40112N	SL42112N	SL54912	SL41412N	SL42612H	SL41112N	SL41612N	SL44312	SL44110L	SL45812H	SL40614	SL45414
	ECONOMIST	PAINTABLE	PURE EZE	KNOCK OUT	ECONO-SPRAY 1	ECONO-SPRAY 2	ECONO-SPRAY 3	QUICK SILICONE	QUICK PAINTABLE	QUICK LECITHIN	SILICONE	SSL	HEAVY-DUTY MOLD RELEASE	POLYCARBONATE	UNIVERSAL	DFL DRY FILM LUBE	ZINC STEARATE	E/S WATER-BASED SILICONE	HI-TEMP 1800	URETHANE	EPOXEAISE	THERMOSET
NO CHLORINATED SOLVENTS	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
FOOD-APPROVED (SILICONE)	●				●			●			●	●						●				
FOOD-APPROVED (NON-SILICONE)			●	●			●			●			●		●							
PAINTABLE		●	●	●		●	●		●	●			●	●	●	●	●				●	●
FAST-ACTING SOLVENT					●	●	●	●	●	●						●	●		●		●	●
WILL NOT INTERFERE WITH BONDING			●	●			●			●			●		●	●	●				●	●
ULTRASONIC WELDING COMPATIBLE			●	●			●			●			●		●	●	●		●			
RECOMMENDED FOR MEDICAL MOLDING			●												●							
MOLD RELEASE/RESIN RECOMMENDATION																						
ABS	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
ACETAL	●	●	●	●				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
ACRYLIC	●	●	●	●							●	●	●	●	●	●	●	●	●	●	●	●
EPOXY & PHENOLIC			●	●												●	●				●	
NORYL	●		●	●				●			●	●	●		●	●	●				●	
NYLON	●	●	●	●				●	●	●	●	●	●	●	●	●	●					
POLYCARBONATE	●	●	●	●	●	●	●				●	●	●	●	●	●	●	●	●	●	●	●
POLYESTER			●																		●	●
POLYETHYLENE	●	●	●	●	●	●	●			●		●	●									
POLYPROPYLENE	●	●	●	●	●	●	●			●		●	●									
POLYSTYRENE	●	●	●	●	●	●	●				●	●	●	●	●	●	●	●	●	●	●	●
POLYSULFONE	●	●	●	●				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
PVC													●		●							
RUBBER	●	●	●	●							●	●	●	●	●	●	●					●
URETHANE			●	●									●		●	●				●		
WAX	●		●	●							●	●										●



ECONOMIST® MOLD RELEASE

AN ECONOMICAL SILICONE-BASED LIGHT-DUTY MOLD RELEASE. CONTAINS THE SAME HIGH-QUALITY INGREDIENTS AS PREMIUM SILICONE MOLD RELEASE EXCEPT FORMULATED TO BE USED FOR LIGHT-DUTY APPLICATIONS.

- Solvent-free dry formulation
- Non-paintable, silicone release
- Food-grade lubricant
- NSF Category M1
- Maximum operating temperature: 600°F /315°C

PART NUMBERS:

SL41612N AEROSOL 12/CASE
SL41635N AEROSOL CYLINDER
SL41601PB 1 GALLON
SL41605PB 5 GALLON
SL41655PB 55 GALLON



KNOCK OUT MOLD RELEASE

A NON-SILICONE, PAINTABLE LIGHT-DUTY MOLD RELEASE . WORKS WHERE OTHER RELEASES HAVE FAILED. IT GETS “STICKY PARTS” CLEANLY OUT OF THE MOLD. IMPARTS A LIGHT, DRY COATING THAT LASTS FOR SEVERAL CYCLES WITHOUT RE-APPLICATION.

- Solvent-free dry formulation
- Paintable, non-silicone release
- Approved for indirect food contact
- Works for several cycles without re-application
- Maximum operating temperature: 450°F/232°C

PART NUMBERS:

SL46612N - AEROSOL 12/CASE
SL46635N - 35-LB AEROSOL CYLINDER
SL46601PB - 1 GALLON
SL46605PB - 5 GALLON
SL46655PB - 55 GALLON



ECONO-SPRAY® 1 MOLD RELEASE

AN ECONOMICAL, NON-PAINTABLE SILICONE LIGHT-DUTY MOLD RELEASE AGENT. CONTAINS A HIGHLY EFFECTIVE, NON-PAINTABLE SILICONE FLUID. AN EXCELLENT RELEASE FOR ALL THERMOPLASTICS AND IS SAFE TO USE ON MOST RESINS.

- Solvent-free dry formulation
- Non-paintable, silicone release
- Food-approved lubricant
- Safe to use on most resins.
- Maximum operating temperature: 600°F /315°C

PART NUMBERS:

SL40510P AEROSOL 12/CASE
SL40530P AEROSOL CYLINDER
SL40501PB 1 GALLON
SL40505PB 5 GALLON
SL40555PB 55 GALLON



ECONO-SPRAY® 2 MOLD RELEASE

AN ECONOMICAL, PAINTABLE LIGHT-DUTY MOLD RELEASE AGENT. IT PERMITS POST-DECORATING OF MOLDED PARTS WITHOUT PRIOR CLEANING.

- Solvent-free dry formulation
- Paintable Mold Release
- Permits post-decorating of molded parts without prior cleaning
- Maximum operating temperature: 650°F/343°C

PART NUMBERS:

SL40710P AEROSOL 12/CASE
SL40701PB 1 GALLON
SL40705PB 5 GALLON
SL40755PB 55 GALLON



ECONO-SPRAY® 3 MOLD RELEASE

AN ECONOMICAL, NON-SILICONE, PAINTABLE LIGHT-DUTY MOLD RELEASE. CONTAINS A HIGHLY EFFECTIVE NON-SILICONE RELEASE. HIGHLY PAINTABLE, AND WILL PERMIT ULTRA-SONIC WELDING OF MOLDED PARTS. WORKS WELL WITH THERMOPLASTICS.

- Solvent-free dry formulation
- Paintable, non-silicone
- Food-approved lubricant
- Excellent release of all thermoplastics.
- Maximum operating temperature: 600°F/315°C

PART NUMBERS:

SL40810P AEROSOL 12/CASE
SL40830P AEROSOL CYLINDER
SL40801PB 1 GALLON
SL40805PB 5 GALLON
SL40855PB 55 GALLON



PAINTABLE MOLD RELEASE

AN ECONOMICAL, PAINTABLE MOLD RELEASE REQUIRES NO SPECIAL CLEANING. WILL NOT INTERFERE WITH MOST OPERATIONAL PROCESSES. YOU GET PERFECT FINISHES EVERY TIME AND MORE CYCLES PER CAN OVER OTHER COMPARABLE RELEASES.

- Solvent-free dry formulation
- An ideal production line release
- More cycles per can over other comparable releases
- Allows molded parts to be painted post-molding
- Maximum operating temp: 650°F/343°C

PART NUMBERS:

SL40012N AEROSOL 12/CASE
SL40035N AEROSOL CYLINDER
SL40001PB 1 GALLON
SL40005PB 5 GALLON
SL40055PB 55 GALLON



PURE EZE MOLD RELEASE

A NON-SILICONE, PAINTABLE, ALL-PURPOSE MOLD RELEASE AGENT. NEUTRAL WHITE OIL-BASED, FOOD-APPROVED RELEASE IDEAL FOR MEDICAL AND FOOD APPLICATIONS. IT WILL NOT CHANGE COLOR OR TURN RANCID OVER TIME. CONTAINS NO LECITHINS

- Solvent-free dry formulation
- Food-grade active ingredient, contains no lecithin
- Paintable, non-silicone all-purpose release
- Excellent all-purpose mold release for most resins
- Maximum operating temperature: 600°F/315°C

PART NUMBERS:

SL457122N AEROSOL 12/CASE
SL45735N AEROSOL CYLINDER
SL45701HB 1 GALLON
SL45705HB 5 GALLON
SL45755HB 55 GALLON



QUICK® SILICONE MOLD RELEASE

A MEDIUM-DUTY, ALL-TEMPERATURE SILICONE MOLD RELEASE. IDEAL FOR PARTS THAT ARE A LITTLE MORE CHALLENGING. IMPARTS A SMOOTH, DRY FILM, DRYING QUICKLY SO YOU CAN START MOLDING IMMEDIATELY.

- No chlorinated solvents
- Food-grade for indirect food contact
- Fast-drying on cold and hot molds
- Maximum operating temperature: 600°F/ 315°C

PART NUMBERS:

SL44612 AEROSOL 12/CASE



QUICK® PAINTABLE MOLD RELEASE

A MEDIUM-DUTY, PAINTABLE, ALL-TEMPERATURE MOLD RELEASE. IMPARTS A SMOOTH, DRY FILM, DRYING QUICKLY SO YOU CAN START MOLDING IMMEDIATELY. WILL NOT INTERFERE WITH MOST OPERATIONAL PROCESSES.

- Biodegradable
- No chlorinated solvents
- Paintable, all-temperature
- Fast-drying on cold and hot molds
- Maximum operating temperature: 650°F/343°C

PART NUMBERS:

SL44712 AEROSOL 12/CASE



QUICK® LECITHIN MOLD RELEASE

A MEDIUM-DUTY, NON-SILICONE, PAINTABLE, ALL-TEMPERATURE LECITHIN MOLD RELEASE. IMPARTS A SMOOTH, DRY FILM, DRYING QUICKLY SO YOU CAN BEGIN PRODUCTION IMMEDIATELY. WILL NOT INTERFERE WITH MOST OPERATIONAL PROCESSES.

- No chlorinated solvents
- Paintable, all-temperature non-silicone release
- Food-approved active ingredient
- Fast-drying on cold and hot molds
- Maximum operating temperature: 500°F/260°C

PART NUMBERS:

SL44812 (AEROSOL) 12/CASE



SILICONE MOLD RELEASE

A HEAVY-DUTY, FDA APPROVED MOLD RELEASE AGENT THAT PROVIDES FASTER MOLDING AND MORE PRODUCTION. KEEPS THE MOST CHALLENGING PARTS FROM STALLING PRODUCTION. EFFECTIVE FOR INJECTION AND COMPRESSION MOLDING.

- Solvent-free dry formulation
- Food-grade for indirect food contact
- Allows for faster molding & more production
- Recommended for food-packaging molding
- Maximum operating temperature: 600°F/315°C

PART NUMBERS:

- SL40112** AEROSOL 12/CASE
- SL40101PB** 1 GALLON
- SL40105PB** 5 GALLON
- SL40155PB** 55 GALLON



UNIVERSAL® MOLD RELEASE

A HEAVY-DUTY, NON-SILICONE, PAINTABLE MOLD RELEASE. A BROAD UNIVERSAL MOLD RELEASE THAT CAN BE USED ON ALL THERMOPLASTICS, EVEN MORE SENSITIVE PLASTICS. APPROVED AS A DIRECT FOOD ADDITIVE. CAUSES NO INTERFERENCES.

- Solvent-free dry formulation
- Paintable, non-silicone
- Food-grade active ingredient
- Safe to use on most thermoplastics
- Maximum operating temperature: 600°F/315°C

PART NUMBERS:

- SL42612** AEROSOL 12/CASE
- SL42601HB** 1 GALLON
- SL42605HB** 5 GALLON
- SL42655HB** 55 GALLON



SSL MOLD RELEASE

AN ECONOMICAL, NON-PAINTABLE SILICONE-BASED HEAVY-DUTY MOLD RELEASE. SPECIALLY FORMULATED AS AN INDUSTRIAL RELEASE AGENT FOR MANUFACTURING PROCESSES THAT IS SAFE FOR FOOD APPLICATIONS. IDEAL AS AN IN-PROCESS LUBRICANT.

- Solvent-free dry formulation
- Silicone-based mold release
- Food-approved lubricant
- Low-cost heavy-duty mold release
- Maximum operating temperature: 600°F/315°C

PART NUMBERS:

- SL42112N** - AEROSOL 12/CASE
- SL42135N** - AEROSOL CYLINDER
- SL42101PB** - 1 GALLON
- SL42105PB** - 5 GALLON
- SL42155PB** - 55 GALLON



HEAVY-DUTY 10% MOLD RELEASE

NON-SILICONE, PAINTABLE FOOD APPROVED LUBRICANT. HAS THE HIGHEST PERCENTAGE OF ACTIVE INGREDIENTS FOR A SLIDE'S RELEASE AGENT. CAN BE USED ON PLASTICS, RUBBER, WAXES, GLASS-FILLED NYLON AND SIMILAR MATERIALS.

- Solvent-free dry formulation
- Paintable, non-silicone
- Food-grade for indirect food contact
- Dry release minimizes leaching out onto parts
- Maximum operating temperature: 450°F/232°C

PART NUMBERS:

- SL54912** - AEROSOL 12/CASE
- SL54935N** - 35-LB AEROSOL CYLINDER
- SL54901HB** - 1 GALLON
- SL54905HB** - 5 GALLON
- SL54955HB** - 55 GALLON



POLYCARBONATE MOLD RELEASE

A HEAVY-DUTY, PAINTABLE MOLD RELEASE AGENT. SPECIALLY DEVELOPED AS A RELEASE FOR POLYCARBONATE RESIN. IT WILL NOT INTERFERE WITH PART BONDING, HEAT SEALING, LAMINATING, ULTRASONIC WELDING OR POST-DECORATING OF PARTS.

- Solvent-free dry formulation
- Paintable, heavy-duty release
- Will not interfere with post-molding decorating of parts
- Specifically developed as a release for polycarbonate resin
- Maximum operating temperature: 650°F/343°C

PART NUMBERS:

- SL41412N** - AEROSOL 12/CASE
- SL41401N** - 1 GALLON
- SL41405PB** - 5 GALLON
- SL41455PB** - 55 GALLON



DFL DRY FILM LUBE MOLD RELEASE

A FAST-DRYING RELEASE AGENT FOR INJECTION MOLDING. IT WILL NOT CREATE “HYDRAULIC EFFECT” ON DEEP DRAFTED MOLDS. ITS “DRY” FORMULATION WILL NOT PICK UP DUST OR DIRT AND REMAINS INERT WHEN EXPOSED TO CORROSIVE REAGENTS.

- No chlorinated solvent, contains PTFE
- Formulated for deep draw molds
- Excellent for most rubber & thermoplastics
- Use it on phenolic & urethane resins
- Maximum operating temperature: 500°F/260°C

PART NUMBERS:

- SL41112N** - AEROSOL 12/CASE
- SL41101PB** - 1 GALLON
- SL41101PB** - 5 GALLON
- SL41155HB** - 55 GALLON



ZINC STEARATE MOLD RELEASE

A NON-SILICONE, PAINTABLE MOLD RELEASE AGENT. ALSO COMES AS A DRY, LIGHT, WATER-REPELLENT POWDER, ECONOMICAL TO USE AND GIVES BETTER FINISHES. ITS FORMULATION RESULTS IN FEWER REJECTS AND LOWER PRODUCTION COSTS.

- No chlorinated solvents
- Paintable, non-silicone
- Mold release powder
- Use for polycarbonate, polypropylene, polysulfone and rubber molding
- Maximum operating temperature: 600°F/315°C

PART NUMBERS:

- SL41612N** - AEROSOL 12/CASE
- SL41635N** - 35-LB AEROSOL CYLINDER



E/S SILICONE MOLD RELEASE

A WATER-BASED FORMULA CONTAINING SILICONE OIL. EFFECTIVE IN MANY APPLICATIONS, ESPECIALLY ON MOLDS 212°F AND ABOVE. AN EXCELLENT “WET” SILICONE LUBRICANT FOR MANY APPLICATIONS. IT’S A GREAT MOLD RELEASE FOR ENVIRONMENTALLY CONSCIOUS COMPANIES.

PART NUMBER:

SL44312 (16 fl. oz.) 12/Case

- NO CHLORINATED SOLVENTS
- APPROVED FOR INDIRECT FOOD CONTACT
- WATER-BASED FORMULATION
- NON-FLAMMABLE WHEN USED AS DIRECTED
- USE ON MOLDS 212°F/100°C AND ABOVE
- MAXIMUM OPERATING TEMPERATURE: 600°F/315°C



HI-TEMP 1800 MOLD RELEASE

BRING ON THE HEAT. THE PERFECT PARTNER TO MAXIMIZE PRODUCTIVITY WITH HIGH-TEMPERATURE RESINS. FORMULATED WITH BORON NITRIDE, HI-TEMP MAINTAINS ITS LUBRICATION INTEGRITY, HELPING MAXIMIZE PRODUCTIVITY.

- No chlorinated solvents
- Paintable, non-silicone release containing boron nitride
- Effective release for engineering grade resins, low melting point metals and glass
- Maximum operating temperature: 1800°F/982°C

PART NUMBER:

SL44110A (16 FL. OZ.) 12/CASE

What’s the real cost of your mold release?

Use this formula: # Parts Released / \$ Per Can = Value

SLIDE PRODUCTS PLAY WELL TOGETHER

EVERY SLIDE PRODUCTS’ MOLD CARE PRODUCT HAS BEEN FORMULATED AND TESTED TO WORK IN TANDEM WITH EVERY OTHER PRODUCT. MOLD RELEASE, CLEANERS, RUST PREVENTIVES AND LUBRICANTS COMPLEMENT EACH OTHER. IF YOU WANT TO ENSURE MAXIMUM EFFECTIVENESS AND COMPATIBILITY, KEEP IT ALL IN THE FAMILY. SLIDE PRODUCTS’ FAMILY OF MOLD CARE PRODUCTS



URETHANE MOLD RELEASE

A NON-PAINTABLE SILICONE MOLD RELEASE. EXTREMELY EFFECTIVE FOR ALL POLYURETHANES: RIGID, SEMI-RIGID AND FLEXIBLE URETHANE FOAMS. IMPARTS A LIGHT, DRY COATING ON THE MOLD, ELIMINATING BUILD-UP.

- Solvent-free dry formulation
- Non-paintable silicone mold release
- Effective for all polyurethanes
- Continues to work for several cycles between applications
- Maximum operating temperature: 500°F/260°C

PART NUMBERS:

SL41612N - AEROSOL 12/CASE
SL41635N - 35-LB AEROSOL CYLINDER
SL41601PB - 1 GALLON
SL41605PB - 5 GALLON
SL41605PB - 55 GALLON



EPOXEASE MOLD RELEASE

A SYNTHETIC WAX-BASED, NON-SILICONE MOLD RELEASE AGENT. IT IS FORMULATED TO PREVENT THE STICKING COMMONLY SEEN WHEN USING ALL-PURPOSE RELEASE AGENTS ON EPOXIES, MAXIMIZING YOUR PRODUCTIVITY.

- No chlorinated solvents
- Made with synthetic carnauba wax
- Recommended for thermoset plastic resins
- For injection, compression and transfer molding
- Maximum operating temperature: 600°F/315°C

PART NUMBERS:

SL45414 - AEROSOL 12/CASE



THERMOSET MOLD RELEASE

MADE WITH SYNTHETIC CARNAUBA WAX. THE MOST EFFECTIVE FORMULATION FOR MOLDED THERMOSET PLASTICS. IT STOPS PARTS FROM STICKING, MAXIMIZING YOUR PRODUCTIVITY. IT IS IDEAL FOR INJECTION, COMPRESSION AND TRANSFER MOLDING.

- No chlorinated solvents
- Non-silicone, synthetic wax-based product
- For injection molding, encapsulating, potting
- For epoxy, polyester and phenolic resins
- Maximum operating temperature: 450°F/232°C

PART NUMBERS:

SL45414 - AEROSOL 12/CASE



SUPER GREASE EJECTOR PIN GREASE

SUPER GREASE WILL NOT SEPARATE, RUN OR FALL OUT AND HAS EXCEPTIONAL LOAD-BEARING PROPERTIES. THIXOTROPIC PROPERTIES PROVIDE EXCELLENT MECHANICAL STABILITY WHEN SUDDEN TEMPERATURE CHANGES OCCUR. A CLEAR, CLEAN, NON-YELLOWING GREASE, SUPER GREASE IS IDEAL FOR INJECTION MOLDS, MOLD ASSEMBLIES, AND ESPECIALLY MEDICAL AND FOOD GRADE PLASTIC PARTS. IT ALSO REPELS WATER AND PREVENTS CORROSION.

- No chlorinated solvents
- NSF category H1
- Ideal for mold assemblies used for food / medical markets
- NLGI #2 high temperature grease
- Colorless & odorless, excellent dielectric strength
- Contains PTFE, no silicones
- Will not bleed out; paintable
- Operating temps: -45°F - +650°F/-42°C - +343°C*

PART NUMBERS:

SL43911 NET WT. 16 OZ. (16 FL. OZ.) 12/CASE
SL43900T 14 OZ. TUBE FOR GREASE GUNS
SL43900-01 10 GRAM TUBE
SL43900-03 3 OZ. TUBE
SL43900-7 7 LB. CONTAINER
SL43900-35 35 LB. CONTAINER
SL43900-400 400 LB. DRUM



TIP: HOW TO PROPERLY LUBE EJECTOR PINS

THERE IS AN ART TO EFFECTIVELY GREASING EJECTOR PINS. USING THE RIGHT GREASE ON THE FRONT AND BACK OF THE PINS PREVENTS GREASE FROM LEACHING OUT AND CONTAMINATING PARTS.



MOLD CLEANER 4 MOLD CLEANER

PROVIDES A CONVENIENT METHOD FOR REMOVAL OF SILICONES, GREASE, OIL AND WAX BUILD-UP ON MOLD SURFACES. IDEAL FOR COLD MOLDS, IT LEAVES NO RESIDUE SO IT CLEANS WITHOUT WIPING. FORMULATED TO EVAPORATE QUICKLY.

- No chlorinated solvents
- Evaporates fast; leaves no residue
- Convenient method for removal of mold release, grease, oil and wax build-up on mold surfaces
- Slide's most popular mold cleaner formulation

PART NUMBERS:

- SL46910** - AEROSOL 12/CASE
- SL46930** - 35-LB AEROSOL CYLINDER
- SL46901HB** - 1 GALLON
- SL46905HB** - 5 GALLON
- SL46955HB** - 55 GALLON



NEXGEN MOLD CLEANER

POWERFUL, BIODEGRADABLE CLEANER. FORMULATED PURELY FROM CITRUS AND VEGETABLE PRODUCTS. USE IT FOR REMOVING OIL SPILL CLEAN-UP AND REMEDIATION, DEWAXING, REMOVING MOLD RELEASE AND DEGREASING.

- No chlorinated solvents
- Food-approved solvents
- Removes Spotting Blue with ease
- High solvency for resins, polymers and dies
- Can be used to help break down resin deposits
- Meets tough health, safety, environmental regulations

PART NUMBERS:

- SL46410** - AEROSOL 12/CASE
- SL46430** - 35-LB AEROSOL CYLINDER
- SL46401B** - 1 GALLON
- SL46405B** - 5 GALLON
- SL46455B** - 55 GALLON



QUICK INJECTION MOLD CLEANER

DRIES MORE SLOWLY TO EFFECTIVELY CLEAN MOLDS AT ROOM TEMPERATURE WITHOUT WIPING. IT REMOVES SILICONES, GREASE, OIL AND WAX BUILD-UP ON MOLD SURFACES, ETC. IT LEAVES NO RESIDUE. FORMULATED TO EVAPORATE QUICKLY.

- No chlorinated solvents
- Cleans quickly without wiping
- Fast evaporating and leaves no residue
- Recommended for use on molds at room temperature

PART NUMBERS:

- SL40910H** - AEROSOL 12/CASE
- SL46430** - 35-LB AEROSOL CYLINDER
- SL40901HB** - 1 GALLON
- SL40905HB** - 5 GALLON
- SL40955HB** - 55 GALLON



ECONO-SPRAY® MOLD CLEANER

QUICKLY REMOVES SILICONES, GREASE, OIL AND WAX BUILD-UP ON MOLD SURFACES. IT IS ALSO GOOD FOR CLEAN-UP OF NON-OPERATING ELECTRICAL EQUIPMENT AND DEGREASING ON MACHINERY. SAFE ON SOLVENT-SENSITIVE PLASTICS.

- No chlorinated solvents
- Safe on solvent-sensitive plastics
- Food-grade for indirect food contact
- Very low odor
- Quickly removes mold release, grease, oil and wax

PART NUMBERS:

- SL45612** - AEROSOL 12/CASE
- SL45601B** - 1 GALLON
- SL45605B** - 5 GALLON
- SL45655B** - 55 GALLON



ON/CYCLE MOLD CLEANER

THE IDEAL MOLD CLEANER FOR USE WHILE IN PRODUCTION. WORKS ON WARM MOLDS UP TO 150°F AND EASILY REMOVES RELEASES, OILS, GREASES AND MANY RESINOUS BUILD-UPS BEFORE THEY CAN BECOME A PROBLEM.

- No chlorinated solvents
- Made from citrus oils
- Use on warm molds at the press
- Quickly removes mold release, grease and oil
- Can be used to help break down resin deposits

PART NUMBERS:

- SL44212** - AEROSOL 12/CASE
- SL44201B** - 1 GALLON
- SL44205B** - 5 GALLON
- SL44255HB** - 55 GALLON



RESIN REMOVER *MOLD CLEANER*

RESIN REMOVER'S POWERFUL SOLVENTS REMOVE RESIN BUILD-UP WITHOUT NEEDING TO REMOVE THE MOLD. IT WILL REMOVE, STRIP AND/OR AID IN THE REMOVAL OF MANY RESINOUS PLASTICS AND GAS DEPOSITS. "THE STRIPPER"

- No chlorinated solvents
- Use to unclog mold vents
- Removes resin build-up
- Removes most color deposits and stains
- Minimize downtime and maximizing production

PART NUMBERS:

- SL41914** - AEROSOL 12/CASE
- SL41901B** - 1 GALLON
- SL41905B** - 5 GALLON
- SL41955B** - 55 GALLON



X-EMPT *INJECTION MOLD CLEANER*

PROVIDES A CLEANING FORMULATION THAT USES NO REPORTABLE VOC'S. PROVIDES A CONVENIENT AND POWERFUL METHOD FOR REMOVAL OF SILICONE, GREASE, OIL AND WAX BUILD-UP ON MOLD SURFACES AND MORE.

- Not for use on painted surfaces
- No chlorinated solvents
- Fast evaporating formulation
- Contains only EPA-exempt VOC compounds
- Single-purpose mold cleaner formulation

PART NUMBERS:

- SL47410** - AEROSOL 12/CASE
- SL474101B** - 1 GALLON
- SL474105B** - 5 GALLON
- SL47455B** - 55 GALLON



IPA ISOPROPYL ALCOHOL *MOLD CLEANER*

CONTAINS NO CHLORINATED SOLVENTS AND PROVIDES A CONVENIENT METHOD FOR REMOVAL OF SILICONES, GREASE, OIL AND WAX BUILD-UP ON METAL SURFACES. FAST-EVAPORATING SOLVENT LEAVES NO RESIDUE REQUIRING NO WIPING.

- No chlorinated solvents
- 99% isopropyl alcohol
- Kosher-approved ingredients
- Evaporates fast and leaves no residue
- Safe as a mold cleaner in food packaging applications

PART NUMBERS:

- SL47212** - AEROSOL 12/CASE
- SL47201B** - 1 GALLON
- SL47205B** - 5 GALLON
- SL47255B** - 55 GALLON



CITRA CLING *INJECTION MOLD CLEANER*

AN EXCELLENT CLEANING AGENT THAT CLINGS TO EVEN VERTICAL SURFACES. SUPERIOR CLINGING ACTION ALLOWS FOR MAXIMUM CLEANING. WATER-BASED CLEANER IS SAFE TO USE ON PAINTED SURFACES AND PLASTIC PARTS.

- No chlorinated solvents
- Clings to even vertical surfaces
- Water-based high density foam
- Removes mold releases, dirt, oil and greases
- Helps break down resin and gas deposits that clog vents

PART NUMBERS:

- SL46515** - AEROSOL 12/CASE

MONEY-SAVING TIPS

CHOOSE CLEANERS THAT WORK BEST DEPENDING ON WHETHER YOU ARE WORKING ON A WARM MOLD OR COLD MOLD. A COLD MOLD CLEANER USES SOLVENTS THAT WILL EVAPORATE TOO QUICKLY ON A WARM MOLD, HINDERING ITS EFFECTIVENESS. A WARM MOLD CLEANER HAS SOLVENTS THAT EVAPORATE VERY SLOWLY AND MAY REQUIRE YOU TO SPEND EXTRA TIME WIPING RESIDUE OFF A COLD MOLD.



INJECTION MOLD CLEANER WIPES *MOLD CLEANER*

PROVIDES A CONVENIENT METHOD FOR REMOVAL OF SILICONES, GREASE, OIL AND WAX BUILD-UP ON MOLD SURFACES. IDEAL FOR COLD MOLDS, IT LEAVES NO RESIDUE SO IT CLEANS WITHOUT WIPING. FORMULATED TO EVAPORATE QUICKLY.

- No chlorinated solvents
- Evaporates fast; leaves no residue
- Convenient method for removal of build-up on mold surfaces
- Slide's most popular mold cleaner formulation

PART NUMBERS:

- SL46370** - CANISTER OF 70 WIPES
- SL46301** - SINGLE WIPE PACKETS (BOX OF 50)
- SL46301B** - 1 GALLON
- SL46305B** - 5 GALLON
- SL46355B** - 55 GALLON



POLISH CLEANER *MOLD CLEANER*

USE PC ON ALL METAL MOLDS TO REMOVE STAINS AND DISCOLORATION. FORMULATED TO BE USED ON COLD OR WARM INJECTION MOLDS, PC LEAVES A NON-TRANSFERRING, MICRON-THIN FILM THAT REDUCES MOLD WEAR.

- Water-based liquid mold cleaner
- Protects the mold as it removes stains and mold deposits
- Conditions your mold for faster startups and improved release properties

PART NUMBERS:

- SL43310** - 12/CASE



MOLD POLISH INJECTION *MOLD CLEANER*

MOLD POLISH SAFELY REMOVES PLATE-OUT, OXIDATION AND STAINS ON FINE TOOLING SURFACES QUICKLY. IDEAL FOR ALL TYPES OF MOLDS, DIES AND FIXTURES, IT RESTORES SURFACE FINISH, WHILE PROVIDING A HIGH, LUSTER SHEEN.

- No chlorinated solvents
- Paste-type mold polish
- Cleans and restores mold surfaces
- Removes plate-out, oxidation and stains
- Brings surfaces to a high luster

PART NUMBERS:

- SL45202** - 1.76 OZ TUBE
- SL45216** - 16 OZ TUB



SILICONE REMOVER *PLASTIC PARTS CLEANER*

SILICONE REMOVER IS DESIGNED TO REPLACE ORGANIC SOLVENTS THAT ARE HARMFUL TO CERTAIN PLASTICS, SUCH AS POLYCARBONATES, STYRENES AND ACRYLICS. A SPECIALLY FORMULATED WETTING AGENT YOU MIX WITH WATER.

- No chlorinated solvents
- Concentrated soap to be diluted 50:1 with water
- Completely removes all traces of silicone oil from molded parts

PART NUMBERS:

- SL43001B** - AEROSOL 12/CASE
- SL43005B** - 35-LB AEROSOL CYLINDER

COOL-DOWN SWEAT IS RUSTING YOUR MOLD

INTERNAL WATER LINES TEND TO CAUSE THE MOLD TO SWEAT AS CONDENSATION FORMS ON THE MOLD PLATENS AND CAVITY. RUST AND OXIDATION CAN BEGIN TO FORM ALMOST IMMEDIATELY, EVEN BEFORE THE MOLD CAN BE TAKEN OUT OF THE MACHINE AND RETURNED TO THE TOOL ROOM. TO HELP PREVENT SWEAT FROM CREATING RUST DURING COOL DOWN, APPLY SLIDE RUST PREVENTIVE TO THE MOLD CAVITY ONCE TEMPERATURES ARE REDUCED. ONCE THE MOLD REACHES ROOM TEMPERATURE, THE MOLD SHOULD BE FLUSHED AND CLEANED THOROUGHLY WITH A SLIDE MOLD CLEANER. THEN APPLY A FRESH COAT OF RUST PREVENTIVE.



MOLD SHIELD RUST PREVENTIVES

UNIQUE “DRY” FORMULA DELIVERS A NON-PENETRATING MIST INTO MOVING PARTS INCLUDING EJECTOR PIN HOLES, SLIDES, AND CAMS. THIS SPECIAL DRY MIST PREVENTS MARKING OF PLASTIC PARTS WHEN MOLDS ARE PUT BACK.

- No chlorinated solvents
- Neutralizes fingerprint acid
- 2-year protection
- Non-silicone, non-wax formulation
- Self-cleaning in start-up, seals out condensation

PART NUMBERS:

SL42910P - AEROSOL 12/CASE
SL42901PB - 1 GALLON
SL42905PB - 5 GALLON
SL42955PB - 55 GALLON



NO-RUST® RUST PREVENTIVES

A ONE-STEP RUST PREVENTIVE THAT CONTAINS BOTH ACID NEUTRALIZER AND RUST PREVENTIVE. IT PROVIDES POSITIVE PROTECTION BY DISPLACING MOISTURE FROM METAL SURFACES AND ADHERING TIGHTLY TO THE SURFACE.

- No chlorinated solvents
- Neutralizes fingerprint acids
- Ideal for mold and die protection
- Non-silicone, non-wax formulation
- 5 year protection under normal in door storage

PART NUMBERS:

SL40212 - AEROSOL 12/CASE
SL40201B - 1 GALLON
SL40205B - 5 GALLON
SL40255B - 55 GALLON



QUICK RP RUST PREVENTIVES

UNIQUE “DRY” FORMULA EMPLOYS A COMBINATION OF FAST EVAPORATING SOLVENTS AND OILS TO SET UP QUICKLY ON YOUR MOLD SURFACES, PROVIDING IMMEDIATE PROTECTION AGAINST MOISTURE AND LIGHT ACIDS.

- No chlorinated solvents
- 2-year protection
- Red tracing dye helps ensure complete coverage
- Will not bleed out and mark parts
- Neutralizes fingerprint acid

PART NUMBERS:

SL42810 - AEROSOL 12/CASE
SL42801B - 1 GALLON
SL42805B - 5 GALLON
SL422855B - 55 GALLON



ACID VAPOR NEUTRALIZER RUST PREVENTIVES

FORMULATED TO PROTECT STORED PLASTIC MOLDING DIES FROM CORROSIVE ATTACK BY HYDROCHLORIC AND HYDROBROMIC ACIDS, AS WELL AS MOST COMMON ATMOSPHERIC CORROSIVES AND FINGERPRINT ACIDS.

- No chlorinated solvents, one-step rust preventive
- Protects molds when using PVC and flame-retardant resins
- Provides dual protection against moisture and hydrochloric acids

PART NUMBERS:

SL44011 - AEROSOL 12/CASE
SL44001HB - 1 GALLON
SL44005HB - 5 GALLON
SL44055HB - 55 GALLON



WHITE RHINO RUST PREVENTIVES

PREVENTIVE WRAPS YOUR MOLD IN A TOUGH, PROTECTIVE SECOND SKIN. COMPRISED OF FOOD-APPROVED ACTIVE INGREDIENTS, IDEAL FOR PLASTICS PROCESSING APPLICATIONS. SETS UP QUICKLY TO PROTECT IMMEDIATELY.

- No chlorinated solvents
- 2-year protection
- Ideal for mold assemblies used to produce food packaging
- Neutralizes fingerprint acids
- Comprised of food-approved active ingredients

PART NUMBERS:

SL46710P - AEROSOL 12/CASE
SL46701PB - 1 GALLON
SL46705PB - 5 GALLON
SL46755PB - 55 GALLON



PENETRANT PLUS *MRO SOLUTIONS*

THE MONO-MOLECULAR PENETRATING FILM THAT FREES RUSTED AND FROZEN METAL COMPONENTS. LIFTS AND REPLACES MOISTURE WITH A PROTECTIVE FILM. IT ALSO LUBRICATES WITHOUT AFFECTING PERFORMANCE OF ELECTRICAL EQUIPMENT.

- No chlorinated solvents
- Non-silicone, PTFE-based formulation
- Choice of spray or stream aerosol pattern
- Harmless to most plastics, rubber, paint, etc.
- Displaces moisture and leaves a protective film

PART NUMBERS:

- SL41812** - AEROSOL 12/CASE
- SL41801MB** - 1 GALLON
- SL41805MB** - 5 GALLON
- SL41855MB** - 55 GALLON



COPPER ANTI-SEIZE COMPOUND *MRO SOLUTION*

MORE METALLIC SOLIDS THAN OTHER BRANDS FOR INCREASED PERFORMANCE AND HIGHER LEVELS OF TEMPERATURE STABILITY, PERFORMANCE, AND PROTECTION FOR MOLD COMPONENTS AGAINST RUST AND CORROSION.

- Resists thread damage, seizing and galling to 1800°F/982°C
- Compatible with most metals and plastics
- Improves assembly and disassembly
- Allows reuse of damaged or threaded parts
- Will not harden, drip or separate

PART NUMBERS:

- SL47902** 2 OZ. BOTTLE
- SL47908** 8 OZ. BOTTLE



ALUMINUM ANTI-SEIZE COMPOUND *MRO SOLUTION*

MORE METALLIC SOLIDS THAN OTHER BRANDS FOR INCREASED PERFORMANCE AND HIGHER LEVELS OF TEMPERATURE STABILITY, PERFORMANCE, AND PROTECTION FOR MOLD COMPONENTS AGAINST RUST AND CORROSION.

- Aluminum base is perfect for helping prevent non-similar metals from fusing together
- Prevents galling and seizing
- Water resistant
- Reduces friction and lubricates metal surfaces to 2000°F /1093°C

PART NUMBERS:

- SL48008** 8 OZ. BOTTLE



TAP-IT TAPPING FLUID *MRO SOLUTIONS*

SLIDE® TAP-IT IS EFFECTIVE FOR TITANIUM, ALUMINUM, ALLOYS, BERYLLIUM-COPPER ALLOYS, BRASS, BRONZE, CHROME, MOLY, MAGNESIUM, STAINLESS STEEL AND OTHER METALS. TAPPING FLUID PRODUCES CLEANER THREADS.

- No chlorinated solvents
- Produces cleaner threads
- For reaming, dressing abrasive wheels, etc.
- Made with natural oils
- Effective on tool steel, stainless, aluminum, brass, bronze, zinc and other metals

PART NUMBERS:

- SL40401B** - 1 GALLON
- SL40405B** - 5 GALLON
- SL40455B** - 55 GALLON



CUTTING OIL *MRO SOLUTIONS*

GENERAL PURPOSE OIL TO PROVIDE FASTER, EASIER DRILLING, CUTTING, SAWING, THREADING, GENERAL MACHINING AND TAPPING. FORMULATED WITH HIGH PRESSURE ADDITIVES. COMPOUNDED OIL CLINGS TO METAL AND FOLLOWS TOOL DOWN.

- No chlorinated solvents
- Formulated with high pressure additives
- For drilling, cutting, sawing, tapping

PART NUMBERS:

- SL41301B** - 1 GALLON
- SL41305B** - 5 GALLON
- SL41355B** - 55 GALLON

SILICONE EMULSION *MRO SOLUTIONS*



SLIDE'S SILICONE EMULSION IS A 35% CONCENTRATION OF SILICONE OIL EMULSIFIED AND MIXED WITH WATER, IMPARTING EXCELLENT RELEASABILITY ON ALL TYPES OF METALS. OFFERING A WIDE WORKING TEMPERATURE BETWEEN 32° AND 600°F.

- Water-based silicone oil solution
- 35% concentrate can be diluted with additional water
- No chlorinated solvents
- Approved for indirect food contact

PART NUMBERS:

- SL51932-1B** - 1 GALLON
- SL51932-5B** - 5 GALLON
- SL51932-55B** - 55 GALLON

SOLUTIONS FOR YOUR INVESTMENT WAX CASTING (LOST WAX CASTING)

NON-SILICONE WAX PATTERN 5% MOLD RELEASE

FORMULATED EXPRESSLY FOR INVESTMENT AND LOST WAX CASTING

- 3% OIL
- FOOD-GRADE
- NON-SILICONE
- NO CLEANING, ETCHING OR WASHING OF THE WAX PATTERN IS NECESSARY AFTER MOLDING.
- PARTS CAN GO DIRECTLY TO PRIMARY SLURRY DIPPING
- WATER SOLUBLE – CAN BE USED WITH SOLUBLE WAXES
- MAXIMUM OPERATING TEMP: 450°F (232°C)
- NO CHLORINATED SOLVENTS



FORMULATED EXPRESSLY FOR INVESTMENT AND LOST WAX CASTING

NON-SILICONE WAX PATTERN 3% MOLD RELEASE	
THIS MOLD RELEASE OIL HAS BEEN PROVEN TO ELIMINATE THE NEED FOR PATTERN WASHING PRIOR TO PRIMARY COATING.	
PART NUMBER	DESCRIPTION
SL60882	CASE OF 12

NON-SILICONE WAX PATTERN 3% MOLD RELEASE

FORMULATED EXPRESSLY FOR INVESTMENT AND LOST WAX CASTING

- 5% OIL
- LEAVES NO ASH CONTENT
- FOOD-GRADE
- NON-SILICONE
- QUICK AND EASY REMOVAL OF PATTERNS
- MAXIMUM OPERATING TEMP: 450°F (232°C)
- WATER SOLUBLE – CAN BE USED WITH SOLUBLE WAXES
- NO CHLORINATED SOLVENTS



FORMULATED EXPRESSLY FOR INVESTMENT AND LOST WAX CASTING

NON-SILICONE WAX PATTERN 5% MOLD RELEASE	
THIS MOLD RELEASE OIL HAS BEEN PROVEN TO ELIMINATE THE NEED FOR PATTERN WASHING PRIOR TO PRIMARY COATING.	
PART NUMBER	DESCRIPTION
SL60883	CASE OF 12

ECONO-PURGE RESIN-BASED PURGING COMPOUND



ECONO-PURGE QUICKLY, ECONOMICALLY AND EFFECTIVELY REMOVES OLD RESIN AND COLOR RESIDUE IN EXTRUSION, INJECTION AND BLOW MOLDING OPERATIONS. WITH OPERATING TEMPERATURES OF 330° - 610°F, ECONO-PURGE ALSO WORKS ON HOT RUNNERS AND THOROUGHLY PURGES MANIFOLDS WITH GATES AS SMALL AS 30 THOUSANDTHS.

PART NUMBERS:

SL473-45 45-LB BOX
SL473-1500 1500-LB GAYLORD

- Excellent purge for use through hot runner systems
- Safe to purge through the mold
- Operating temperatures of 338° - 572°F/140°C - 300°C
- Helps eliminate color streaking and black specks
- Effectively removes old resin and color residue in extrusion, injection and blow molding operations
- Low odor
- GRAS rated (food-grade) active ingredients safe for food packaging applications

KLENZ RESIN-BASED PURGING COMPOUND



KLENZ IS A REVOLUTIONARY PURGING COMPOUND REQUIRING NO MIXING OR PREPARATION TIME. THOROUGHLY CLEANSES HOT RUNNERS AND THE BARREL, HELPING TO ELIMINATE COLOR STREAKING AND BLACK SPECS. KLENZ PURGING COMPOUND IS SAFE TO PURGE RIGHT THROUGH THE MOLD, SAVING TIME, MATERIAL AND MONEY. FOR USE WITH INJECTION MOLDING, EXTRUSION AND BLOW MOLDING.

PART NUMBERS:

SL468-45 45-LB BOX
SL4681000 1000-LB GAYLORD

- Excellent for use through hot runner systems
- Safe to purge through the mold
- Helps eliminate color streaking and black specks
- Chemically reactive compound
- Polyolefin resin carrier
- Operating temperatures of 330° - 610°F/165°C - 321°C
- For use with injection molding, extrusion and blow molding
- GRAS rated (food-grade) active ingredients safe for food packaging applications

PURGE-ATORY RESIN-BASED PURGING COMPOUND



PURGE-ATORY IS A REVOLUTIONARY HEAVY-DUTY PURGING COMPOUND. RECOMMENDED FOR USE WITH GAS EMITTING RESINS SUCH AS DELRIN & ACETAL. REQUIRES NO MIXING OR PREPARATION TIME. ALL INGREDIENTS ARE GRAS RATED SO IT IS SAFE TO USE FOR FOOD PACKAGING APPLICATIONS. FOR USE WITH INJECTION MOLDING, EXTRUSION AND BLOW MOLDING.

PART NUMBERS:

SL470-45 45-LB BOX
SL4701000 1000-LB GAYLORD

- Recommended for use with gas emitting resins such as Delrin® and acetal
- Safe to purge through the mold
- Helps eliminate color streaking and black specks
- Chemically reactive compound
- SAN resin carrier
- Operating temperatures of 370° - 610°F/187°C - 321°C

HI-TEMP RESIN-BASED PURGING COMPOUND




HI-TEMP PURGE COMPOUND SOLVES THE MAJOR PROBLEMS OF REMOVING STUBBORN RESIDUES BETWEEN COLOR OR RESIN CHANGES. HI-TEMP PURGE COMPOUND IS TO BE USED AS A CONTINUAL PURGE WITH NO SOAK TIME NEEDED. HI-TEMP PURGE COMPOUND HAS A SUGGESTED TEMPERATURE RANGE.

PART NUMBERS:

SL478-45 45-LB BOX
SL478-1000 1000-LB GAYLORD

- Operating temperatures of 485° - 750°F/250°C - 395°C
- Safely clean screws and barrels
- Ideal for resins such as PPS, PEEK, PET, LCP and PEI
- Remove burned material, color hang-ups, resin deposits, black specks and soften and remove rust
- Chemically reactive, non-abrasive purge
- Virtually no odor or smoke
- PET carrier resin
- For use with injection molding
- GRAS rated (food-grade) active ingredients safe for food packaging applications
- Not recommended for cleaning hot runners




P.D.Q. LIQUID *LIQUID-BASED PURGING COMPOUND*

P.D.Q. WORKS WITH THE CARRIER RESIN TO REMOVE ALL THERMOPLASTICS, AND IS EFFECTIVE FOR RESIN-TO-RESIN AND COLOR-TO-COLOR CHANGES. IT REQUIRES NO SOAKING, MAXIMIZING PRODUCTION UP-TIME AND ELIMINATES THE NEED TO KEEP CRACKED ACRYLIC PURGING RESIN INVENTORY.

PART NUMBERS:

SL43432 32 OZ. BOTTLE
SL43401 50 1 OZ. PACKETS (PRE-MEASURE)

- Concentrated liquid purging compound
- Water-based additive (use with barrel temperature above 212°F/100°C)
- Can be mixed with any carrier resin
- Aids with resin-to-resin and color-to-color purges
- Self-measuring bottle or pre-measured packets
- Works with a carrier resin to remove unwanted contamination from the barrel assembly



N.P.T. RESIN-BASED PURGING COMPOUND

N.P.T. SOLVES THE MAJOR PROBLEM OF REMOVING STUBBORN RESIDUE BETWEEN COLOR OR RESIN CHANGES. IT CONSISTS OF CONCENTRATED PURGE PELLETS THAT REACT CHEMICALLY TO HEAT, QUICKLY AND EFFECTIVELY CLEANING MACHINERY WITHOUT EXTRA SOAK TIME, EXCESS DOWNTIME OR LOST PRODUCTIVITY.

PART NUMBERS:

SL451-45 45-LB BOX
SL451-1300 1300-LB GAYLORD

- Complete purging through reactive chemistry
- No need for multiple purging products
- Temp range: 160° - 600°F/71°C - 315°C
- Ready to use; no mixing required
- Run through gates as small as 30 microns
- FDA compliant - ingredients meet G.R.A.S. standards
- Aids with resin-to-resin and color-to-color purges
- Use with most resins
- Not for use with acetal or Delrin®

GUIDE TO YOUR PURGING NEEDS						
	N.P.T.	P.D.Q.	KLENZ	ECONO-PURGE	PURGE-ATORY	HI-TEMP
RECOMMENDED FOR USE WITH GAS EMITTING RESINS (DELRYN AND ACETAL)					✓	
POLYOLEFIN RESIN-BASED FORMULATION	✓		✓	✓		
PURGING OF HOT RUNNERS	✓		✓	✓	✓	
COLOR CHANGES	✓	✓	✓	✓	✓	✓
GRAS RATED INGREDIENTS (SAFE FOR USE IN FOOD PACKAGING OPERATIONS)			✓	✓	✓	✓
READY TO USE, CHEMICALLY-REACTIVE PURGE	✓		✓	✓	✓	✓
MECHANICAL PURGE PROCESS		✓				
EFFECTIVE FOR REMOVAL OF CARBON CONTAMINATION	✓		✓	✓	✓	✓
NON-ABRASIVE (SAFE FOR BARREL AND SCREW)	✓		✓	✓	✓	✓
ODORLESS			✓	✓	✓	✓

SAVE MONEY - BUY IN BULK

The more you buy, the more you save. Most slide aerosol products are available in ready-to-use liquid bulk form. Formulated using the same active ingredients found in our aerosols, bulk products can offer significant savings when compared to using aerosol products. However, please note that the carrier solvents are different. Pre-Testing is recommended. Free samples are available on request. Bulk products are general available on request. Bulk products are generally in 3 container sizes: 1 gallon, 5 gallons, and 55 gallons.

AEROSOL & BULK LIQUID DELIVERY SYSTEMS WITH ACCESSORIES

A VARIETY OF HELPFUL AEROSOL AND BULK LIQUID DELIVERY SYSTEMS, PLUS ACCESSORIES, TO HELP YOU MAXIMIZE PRODUCTION.



FREEDOM "HANDS FREE" AUTOMATIC SPRAY UNIT

- JUST PLUG AND SPRAY; OPERATES AUTONOMOUSLY FROM MOLDING MACHINERY
- SAVES MOLDERS MONEY AND TIME

PART NUMBER

SL43200



MAGNET FOR FREEDOM UNIT

- SET OF TWO MAGNETS FOR FREEDOM UNIT SPRAY HEAD
- LETS YOU POSITION SPRAY HEADS EXACTLY WHERE YOU NEED THEM

PART NUMBER

SL43200M



PRESSURE POT

- FOR USE WITH FREEDOM SPRAY UNIT NO. 43200
- USE IN PLACE OF OUR PRESSURIZED CYLINDER

PART NUMBER

SL43200JP



AIR-O-SPRAY SYSTEM

- THIS EASY-TO-HANDLE UNIT IS SPECIALLY DESIGNED FOR USE WITH SLIDE BULK PRODUCTS
- IT OPERATES WELL WITH ANY AIR COMPRESSOR PROVIDING 50 PSI

PART NUMBER

SL42202



CHARGE-IT! REFILLABLE & RECHARGEABLE AEROSOL ACCESSORY

- FILL THE SLIDE CHARGE-IT! WITH A LIQUID BULK PRODUCT AND CHARGE WITH COMPRESSED AIR (UP TO 150 PSI)
- FUNCTIONS SIMILARLY TO AN AEROSOL ITEM BUT RESULTS IN POTENTIAL DOLLARS SAVED BY USING IN BULK

PART NUMBER

SL43600



HANDHELD SPRAYER WITH HOSE

- RECOMMENDED FOR ALL OF SLIDE'S CYLINDER PRODUCTS
- INCLUDES ASSORTMENT OF SPRAY TIPS

PART NUMBER

SL43100M



CHEMICAL-RESISTANT PUMP SPRAY BOTTLE, PACKAGE OF 2

- PUMP SPRAY BOTTLES ARE AN ECONOMICAL SOLUTION TO DISPENSING SLIDE BULK PRODUCTS
- PACKAGE OF 2 UNITS PER BOX. TO BE USED WITH SLIDE BULK PRODUCTS

PART NUMBER

SL42300



SPRAY CAN HOLDER - HOLDS 3 CANS

- THESE EXTREMELY DURABLE CAN HOLDERS CAN EASILY BE BOLTED DIRECTLY ONTO THE SIDE OF A MOLDING MACHINE
- ORGANIZE YOUR SPACE AND KEEPS CANS IN PLACE

PART NUMBER

SL43800



ROYAL FILTERMIST - MIST COLLECTORS

THESE LOW COST, HIGHLY EFFICIENT MIST AND SMOKE COLLECTORS ARE DESIGNED SPECIFICALLY FOR THE METALWORKING INDUSTRY.

- ELIMINATE MIST AND SMOKE IN YOUR SHOP
- MINIMAL MAINTENANCE AND OPERATING COSTS
- CONTINUOUS HIGH EFFICIENCY RANGING FROM 98-99.5%

THE WORLD LEADER IN METALWORKING POLLUTION CONTROL

WHY CHOOSE ROYAL FILTERMIST FOR THE METALWORKING INDUSTRY?



DESIGNED SPECIFICALLY TO COLLECT OIL MIST AND SMOKE PRODUCED BY MACHINERY.

- OIL MIST IS REMOVED AT SOURCE
- CLEAN OIL IS RETURNED TO MACHINE
- CLEAN AIR IS RETURNED TO WORKPLACE

MODEL	AIRFLOW (CFM)	ENCLOSURE VOLUMES (FT ³)	WEIGHT (LBS)	NOISE LEVEL (DBA)	INLET DIAMETER	P/N
FX-300	295	Up to 80	31	65	6"	ROY30105
FX-575	560	60-120	35	67	6"	ROY30115
FX-900	900	90-180	51	70	6"	ROY30120
FX-1200	1200	120 or larger	64	72	8"	ROY30130

INDUSTRY-LEADING 5-YEAR WARRANTY

MOUNTING OPTIONS MAKE THE ROYAL FILTERMIST EASY TO INSTALL

MODEL	FX-300	FX-575	FX-900	FX-1200			
DIRECT MOUNT	INCLUDED	INCLUDED	ROY30302	ROY30304			
SUSPENDED	ROY30310						
FLOOR STAND	ROY30316		ROY30315				
MACHINE TOP STAND	ROY30319		ROY30314				
WALL MOUNT	ROY30328		ROY30320				
MACHINE SIDE MOUNT	ROY30330		**	**			

** CAN BE ACCOMPLISHED WITH EITHER WALL BRACKET OR MODIFIED FLOOR STAND.

INDUSTRIAL LUBRICANTS FOR METALWORKING



ADVANCE 6030C

ADVANCE 6030C IS A HEAVY-DUTY, HIGH PERFORMANCE, BOTANICAL METALWORKING FLUID FOR MACHINING AND GRINDING OF FERROUS, NON-FERROUS AND COPPER ALLOYS.

- IT IS VIRTUALLY NON-FOAMING IN HIGH PRESSURE APPLICATIONS
- DOES NOT LEAVE TACKY RESIDUE ON MACHINE OR FIXTURES
- FORMULATED TO PROVIDE EXCEPTIONAL RUST PROTECTION

A BLEND OF BOTANICAL ADDITIVES AND BOUNDARY LUBRICANTS THAT PROVIDE PROVEN PERFORMANCE ON DIFFICULT OPERATIONS.

SIZE	PART NUMBER
55 GAL DRUM	MET603555



ADVANCE 6110 METAL FORMING LUBRICANT

ADVANCE 6110 IS AN OIL FREE, BIODEGRADABLE METALFORMING LUBRICANT COMPOSED OF RENEWABLE RESOURCES AFFORDS THE ULTIMATE IN LUBRICITY, AND PERSONAL SAFETY.

- OUTSTANDING CORROSION PROTECTION
- REDUCES POST FINISHING COSTS, COST-EFFECTIVE - LOW END USE COSTS
- CLEANS OFF EASILY, CLEANER/SAFER PRESS ROOM ENVIRONMENT

THE OPTIMUM CHOICE FOR HEAVY-DUTY METAL STAMPING, BLANKING AND DEEP DRAWING OPERATIONS ON ALL METALS.

SIZE	PART NUMBER
5 GAL	MET68505



ADVANCE 6120

ULTRA HEAVY-DUTY BIODEGRADABLE METALFORMING LUBRICANT FOR THE MOST SEVEREST OF OPERATIONS. SPECIFICALLY ENGINEERED TO REPLACE OIL BASED LUBRICANTS.

- PROVIDES OUTSTANDING CORROSION PROTECTION
- CLEANS OFF EASILY, CLEANER/SAFER PRESS ROOM ENVIRONMENT
- CONTAINS NO HAZARDOUS MATERIALS

IDEAL FOR HEAVY-DUTY STAMPING, BLANKING AND DEEP DRAWING OPERATIONS ON ALL METALS INCLUDING THE HARDEST ALLOYS.

SIZE	PART NUMBER
5 GAL DRUM	MET61205
55 GAL DRUM	MET612055



ADVANCE BOTANICAL HAND CLEANER

ADVANCE BOTANICAL HAND CLEANER IS A HEAVY DUTY WATERLESS OR WATER DILUTABLE DETERGENT FOR HAND WASHING IN THE MACHINE SHOP OR ANY INDUSTRIAL FACILITY.

- PROVIDES HIGH DETERGENCY AND EMOLLIENT PROPERTIES IN A MILD GENTLE TO USE HAND CLEANER
- REMOVES TOUGH SOILS – GREASE, OIL, GRAPHITE, PAINT/ COATING RESIDUES AND MARKING INKS
- COMPOSED OF COCONUT AND OTHER BOTANICAL (GREEN) INGREDIENTS, PLEASANT ODOR

SIZE	PART NUMBER
1 GAL W/PUMP	BHC1
8OZ W/PUMP	BHC08



METALLOID SYN SOL SERIES

SYNSOL SERIES IS A HIGH PERFORMANCE HEAVY-DUTY BIO-STABLE SEMI-SYNTHETIC METAL WORKING FLUID FOR MACHINING AND GRINDING OF FERROUS AND NON-FERROUS METALS.

- PROVIDES A TOP PERFORMING SEMI-SYNTHETIC MACHINING AND GRINDING COOLANT
- COMBINES THE BEST FEATURES OF BOTH OIL-TYPE AND SYNTHETIC CHEMISTRY
- SUPERIOR RUST PROTECTION AND UNSURPASSED RANCIDITY CONTROL

EXCELLENT LUBRICITY AND COOLING PROPERTIES

APPLICATIONS:

- Broaching ●
- CNC Machining ●●
- Drilling ●●●
- Grinding ●●●●
- Machining- General ●●●●●
- Milling- Profiling ●●●●●
- Reaming ●●●●●
- Sawing ●●●●●
- Sawing-Flood ●●●●●
- Stamping ●●●●●
- Swiss Machining ●●●●●
- Tapping ●●●●●
- Turning ●●●●●

METALLOID SYN SOL 7000

SIZE	PART NUMBER
5 GAL DRUM	MET70005
55 GAL DRUM	MET700055

METALLOID SYN SOL 7080

SIZE	PART NUMBER
5 GAL DRUM	MET70805
55 GAL DRUM	MET708055

THESE PRODUCT COMBINES THE BEST FEATURES OF BOTH OIL-TYPE AND SYNTHETIC CHEMISTRY TO PROVIDE A TOP PERFORMING SEMI-SYNTHETIC MACHINING AND GRINDING COOLANT WITHOUT THE USE OF CHLORINE.



TAPEZE X-2

TAPEZE X-2 IS A E.P. FORTIFIED PASTE FOR TAPPING ALL METALS. THE PASTE “CLINGS” TO YOUR TAP TO AFFORD THE MAXIMUM LUBRICITY AND INCREASE TAP LIFE.

- SAFE ON ALL METALS, INCLUDING ALUMINUM AND STAINLESS STEEL
- ELIMINATES CHIPPING AND GALLING, “SPLITS OUT” OF MACHINING COOLANTS
- IMPROVED PART FINISHES, THREAD QUALITY AND REDUCES TOOL BREAKAGE

“CLINGS” TO TOOL WITHOUT MESS OR WASTE

SIZE	PART NUMBER
16 OZ CAN	METEZX216
4 OZ TUBE	METTET



SAWZIT

A TRANSPARENT PURE SYNTHETIC SAWING LUBRICOOLANT.

SIZE	PART NUMBER
1 GAL PAIL	SYN11901
5 GAL PAIL	SYN11915
55 GAL DRUM	SYN11955

COOLS THE WORK TO PREVENT DISTORTIONS AND INCREASES THE ACCURACY OF DIMENSIONS



SAWZIT 2000

ADVANCED SEMI-SYNTHETIC ALL PURPOSE SAWING LUBRICOOLANT.

SIZE	PART NUMBER
1 GAL PAIL	SYN16901
5 GAL PAIL	SYN11915
55 GAL DRUM	SYN16955

COOLS AND LUBRICATES TO PREVENT DISTORTION AND DISCOLORATION ON ALL METALS



SPOTTING BLUE - 8 OZ SQUEEZE BOTTLE

OUR EXCLUSIVE LINE OF SPOTTING BLUE IS EASY-TO-APPLY AND DETECTS HIGH SPOTS ON YOUR DIE.

- DEEP BLUE COLOR, SOFT, UNIFORM PASTE SPREADS EASILY AND EVENLY
- TRANSFERS WELL FROM ONE SURFACE TO ANOTHER
- STAYS “WET” FOR EXTENDED PROCESSING TIME

SHAKE THE BOTTLE AND TURN IT UPSIDE DOWN FOR 10 MINUTES TO GET THE REST OUT.

OUR EXCLUSIVE LINE OF SPOTTING BLUE IS EASY-TO-APPLY AND IS PERFECT FOR LOCATING HIGH SPOTS ON MOLDS, DIES, AND TOOLS. SPOTTING BLUE AIDS THE PRECISION-FITTING OF MACHINED AND MOLDED SURFACES AND IS PERFECT TO HELP YOU REACH A HIGH-QUALITY FINISH!

SIZE	COLOR	PART NUMBER
8oz	BLUE	SBWS8



SOLD INDIVIDUALLY

CHIP BRUSHES

	WIDTH	1/2"	1"	1-1/2"	2"	3"	4"
	PART NUMBER	CB12	CB1	CB112	CB2	CB3	CB4
	QUANTITY	36	36	36	24	24	12

ACID BRUSHES

	BRUSH WIDTH	TRIM LENGTH	PART NUMBER
	3/8"	7/8"	AB89602
	1/2"	7/8"	AB89603

CHIP BRUSHES WORK GOOD AND THE BRISTLES CAN BE TRIMMED IF NECESSARY TO HAVE A SHORTER BRUSH. AN ACID BRUSH FITS INSIDE THE BOTTLE.



DYKEM STEEL BLUE LAYOUT FLUID

WHEN APPLIED, OUR LAYOUT FLUIDS PROVIDE A UNIFORM DEEP BLUE COLOR THAT PREVENTS GLARE AND DRIES IN MINUTES. OPERATORS CAN DEPEND ON STEEL BLUE LAYOUT FLUIDS TO SCRIBE SHARP, CLEAR, PRECISE LINES.

PRODUCT	DETAIL	PART NUMBER
STEEL BLUE LAYOUT FLUID	16 OZ. AEROSOL	DYK80000
STEEL BLUE LAYOUT FLUID	8 OZ. BRUSH IN CAP	DYK80400
STEEL BLUE LAYOUT FLUID	930 ML	DYK80600



DYKEM STEEL RED LAYOUT FLUID

WHEN APPLIED, OUR LAYOUT FLUIDS PROVIDE A UNIFORM DEEP COLOR THAT PREVENTS GLARE AND DRIES IN MINUTES.

PRODUCT	DETAIL	PART NUMBER
STEEL RED LAYOUT FLUID	16 OZ. AEROSOL	DYK80096
STEEL RED LAYOUT FLUID	4 OZ.	DYK80396
STEEL RED LAYOUT FLUID	8 OZ. BRUSH IN CAP	DYK80496
STEEL RED LAYOUT FLUID	930 ML	DYK80696

ALL DYKEM® LAYOUT FLUIDS CREATE AN EXTREMELY THIN FILM WHICH ADDS PRACTICALLY NO THICKNESS TO THE WORKPIECE AND REMAINS FLEXIBLE WITHOUT CRACKING AND CHIPPING.



DYKEM STEEL BLUE LAYOUT FLUID

REMOVER & PREP PREPARES SURFACES FOR BETTER ADHESION OF LAYOUT FLUIDS AND REMOVES LAYOUT FLUIDS WHEN PROJECT IS COMPLETE. DOES NOT CONTAIN TOLUENE OR CHLORINATED SOLVENTS.

PRODUCT	DETAIL	PART NUMBER
REMOVER/PREP	1 QT BOTTLE	DYK82638
REMOVER/PREP	1 GALLON	DYK82738



DYKEM DIE SPOT BLUE HI-LO

DYKEM® HI-SPOT IS AN INTENSELY BLUE, SOFT, UNIFORM PASTE THAT SPREADS EASILY AND EVENLY TO SHOW HIGH SPOTS ON BEARINGS. IT IS MOST VALUABLE WHEN USED ON FLAT BEARING SURFACES.

PRODUCT	DETAIL	PART NUMBER
HI-SPOT PASTE BLUE	.55 OZ. TUBE	DYK83307
HI-SPOT PASTE BLUE	14 OZ. CAN	DYK83507

DYKEM BRITE MARK TIP PAINT

A GENERAL PURPOSE PERMANENT MARKER IDEAL FOR MAKING CLEAR, BOLD MARKINGS ON ALMOST ANY SURFACE.



PRODUCT	DETAIL	PART NUMBER
BRITE-MARK MEDIUM	BLUE	DYK84001
BRITE-MARK MEDIUM	BLACK	DYK84002
BRITE-MARK MEDIUM	WHITE	DYK84003
BRITE-MARK MEDIUM	YELLOW	DYK84004
BRITE-MARK MEDIUM	ORANGE	DYK84005
BRITE-MARK MEDIUM	RED	DYK84006
BRITE-MARK MEDIUM	GREEN	DYK84007



PRODUCT	DETAIL	PART NUMBER
BRITE-MARK FINE	BLUE	DYK41001
BRITE-MARK FINE	RED	DYK41002
BRITE-MARK FINE	BLACK	DYK41003
BRITE-MARK FINE	GREEN	DYK41004
BRITE-MARK FINE	YELLOW	DYK41006
BRITE-MARK FINE	WHITE	DYK41008
BRITE-MARK FINE	ORANGE	DYK41010



MARKAL - DURA-INK®+ EASY OFF WATER

INDUSTRIAL-GRADE REMOVABLE INK MARKER IS PERFECT FOR TEMPORARY WRITING ON METAL SURFACES THAT CAN BE REMOVED.

- EASILY REMOVES WITH WATER ONLY
- MARKS THAT ARE REMOVED LEAVE NO GHOSTING
- MARKING RANGE: -50°F TO 150°F (-46°C TO 66°C)

DURA-INK+

REMOVABLE TEMPORARY INK MARKERS THAT ARE SPECIALLY FORMULATED WITH INDUSTRIAL INK THAT IS EASILY REMOVED WITH WATER.

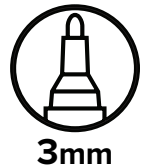
INK COLOR	PART NUMBER
Yellow	MM96311
Red	MM96312
Blue	MM96313
Black	MM96315
Green	MM96316

ORDER MULTIPLES OF 12 EA

DURABLE METAL BARREL PREVENTS BREAKAGE FOR LONGER MARKING LIFE



SOFT, DURABLE NIB WILL NOT SCRATCH METALS



DURA-INK DUAL TIP PERMANENT MARKER

EXPERIENCE THE VERSATILITY OF DURA-INK DUAL TIP PERMANENT INK MARKERS AND CONVENIENTLY CREATE BOTH FINE AND MICRO-SIZED MARKS WITH ONE MARKER INSTEAD OF TWO.

INK COLOR	PART NUMBER
Red	MM96282
Black	MM96283

ORDER MULTIPLES OF 12 EA



DUAL-SIDED MARKER PROVIDES THE CONVENIENCE OF TWO MARKERS IN ONE



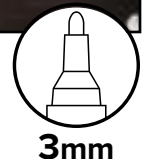
DURA-INK PAINT-RITER VALVE ACTION MARKER


PAINT-RITER VALVE ACTION IS A FAST-DRYING LIQUID PAINT MARKER THAT PROVIDES LONG-LASTING, WEAR- AND WEATHER-RESISTANT MARKS THAT ARE SAFE FOR ALMOST ANY SURFACE. AS THE MOST VERSATILE LIQUID PAINT MARKER IN THE WORLD, THE XYLENE-FREE PAINT REDUCES USER HEALTH RISKS.

INK COLOR	PART NUMBER
Red	MM96821
Yellow	MM96822
Blue	MM96825



FOR ACCURATE MARK IDENTIFICATION



	RIB PULLER - BRASS PLASTIC REMOVAL TOOL
	<p>PROTECTS YOUR MOLD INVESTMENTS FROM PROBLEMATIC PLASTIC PARTS. MADE OF BRASS METAL TO PREVENT SCRATCHES.</p> <ul style="list-style-type: none"> • REDUCE PRESS DOWNTIME FOR STUCK PARTS • THIN PROFILE REACHES NARROWEST STUCK RIBS • AVOID PRODUCTION SHUTDOWNS
	<p>PULL STUCK PLASTIC FROM MOLDS FAST AND GET BACK INTO PRODUCTION.</p>

SIZE	PART NUMBER
1-1/2"	RP112
2-3/4"	RP234
4"	RP4


ORDER MULTIPLES OF 10 EA

HOW TO: HEAT RIB PULLER - EMBED INTO PROBLEMATIC PLASTIC PIECE, LET COOL AND PULL OUT THE STUCK RIB.


SLOWED DOWN BY STUCK PLASTIC PARTS?

A QUICK AND EASY SOLUTION!

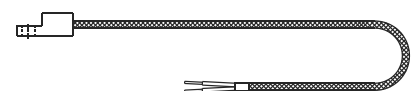



	SLIP STICK WAX - NON-IRRITATING AND NON-TOXIC
	<p>AN EXCELLENT METAL WORKING GREASE STICK THAT IS COMPATIBLE WITH ALL FERROUS AND NON-FERROUS METALS.</p> <ul style="list-style-type: none"> • PROVIDES LUBRICATION • REDUCES FRICTION, TOOL WEAR AND BREAKAGE • PREVENTS BURNING, WELDING CHATTE, GALLING AND TEARING
	<p>IT IS PARTICULARLY GOOD FOR SAW CUTTING APPLICATIONS.</p>

PART NUMBER	WAX515126
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	BRASS BLOCK THERMOCOUPLE SENSOR					
	<p>IDEAL THERMOCOUPLE SENSORS FOR THE PLASTICS PROCESSING INDUSTRY</p> <p>STANDARD SENSOR CONSTRUCTIONS FEATURE HIGH QUALITY, STRANDED WIRE WITH DUPLEX FIBERGLASS INSULATION. SPECIAL WIRE SIZES AND CONSTRUCTIONS, IN AN ASSORTMENT OF INSULATION MATERIALS AND PROTECTIVE COVERINGS, ARE AVAILABLE.</p>					
	<p>BRASS BLOCK THERMOCOUPLE (STAINLESS BRAID)</p> <table border="1" style="margin: auto;"> <thead> <tr> <th style="background-color: #558b2f; color: white;">PART NUMBER</th> <th style="background-color: #558b2f; color: white;">DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>FT18</td> <td>THERMOCOUPLE 18"</td> </tr> <tr> <td>FT20</td> <td>THERMOCOUPLE 20"</td> </tr> </tbody> </table>	PART NUMBER	DESCRIPTION	FT18	THERMOCOUPLE 18"	FT20
PART NUMBER	DESCRIPTION					
FT18	THERMOCOUPLE 18"					
FT20	THERMOCOUPLE 20"					


PART NUMBER	DESCRIPTION
BBJFF06	THERMOCOUPLE 6"
BBJFF12	THERMOCOUPLE 12"
BBJFF18	THERMOCOUPLE 18"
BBJFF24	THERMOCOUPLE 24"
BBJFF30	THERMOCOUPLE 30"
BBJFF36	THERMOCOUPLE 36"
BBJFF42	THERMOCOUPLE 42"
BBJFF48	THERMOCOUPLE 48"
BBJFF54	THERMOCOUPLE 54"
BBJFF60	THERMOCOUPLE 60"




	3M™ PERFORMANCE YELLOW MASKING TAPE 301+				
	THE DEPENDABLE CHOICE A COST EFFECTIVE TAPE FOR INDUSTRIAL PERFORMANCE. USED FOR APPLICATIONS BEYOND MASKING.				
	<ul style="list-style-type: none"> • SUPER STRONG HOLDING POWER • CONFORMS TO IRREGULAR SURFACES • REMOVES CLEANLY IN ONE PIECE, LEAVES NO RESIDUE 				

SIZE	1/2" ROLL	1" ROLL	1-1/2" ROLL	2" ROLL	3" ROLL
PART NUMBER	3M24887	3M24889	3M24889	3M24891	3M24892

IT'S EASY TO TEAR SO ONLY USE WHAT YOU NEED!

	3M™ DOUBLE COATED PAPER TAPE 410M	
	IT OFFERS AN EXCELLENT BALANCE OF HIGH INITIAL ADHESION AND GOOD HOLDING POWER TO A WIDE VARIETY OF MATERIALS.	
	<ul style="list-style-type: none"> • SUPER STRONG HOLDING POWER • GOOD FOR TEMPORARY ATTACHING • REMOVES CLEANLY IN ONE PIECE, LEAVES NO RESIDUE 	

SIZE	1" ROLL	2" ROLL
PART NUMBER	3M16494	3M16517

	IPG PRO MASK GP		
	SIZE	1" ROLL	2" ROLL
	P/N	ZMT1	ZMT2

	TEFLON THREAD SEAL TAPE	
	PROVIDES POSITIVE LEAK-PROOF JOINTS. TEMP RANGE -400° TO +500° F. PRESSURE RANGE TO 10,000 PSI.	
	<ul style="list-style-type: none"> • USED FOR WRAPPING AND SEALING THE THREADS OF VARIOUS PIPES • SUITABLE FOR STANDARD, NON-CHALLENGING THREAD SEAL REQUIREMENTS • PROVIDES CHEMICALLY INERT, NON-CONTAMINATING PERMANENT SEAL 	

SIZE	1/2" X 520" ROLL
PART NUMBER	ZTT12520

MORE EFFECTIVE AND EASIER TO APPLY THAN THREAD SEALANT OR GLUE

SHAVIV DEBURRING TOOLS

A WORLD LEADING MANUFACTURER AND SUPPLIER OF CUTTING AND FINISHING TOOLS TO THE METALWORKING AND PLASTICS INDUSTRIES.

BLADE	EDP NUMBER	DESCRIPTION	APPLICATIONS			MATERIALS							
			STRAIGHT EDGE	HOLE EDGE	CROSS-HOLEBOTH EDGES	STEEL	ALUMINUM	COPPER	BRASS	CAST IRON	HARDENED STEEL	PLASTICS	WOOD
B10	29012	HSS. DEBURRS MATERIALS WITH SPIRAL CHIPS.	●	●		●	●	●				●	
B20	29019	HSS. ROTATES CLOCKWISE & COUNTERCLOCKWISE.	●	●					●	●		●	●
B30	29023	SIMULTANEOUSLY DEBURRS THE INSIDE AND OUTSIDE OF HOLES UP TO 0.16" (4 MM) THICK.			●	●	●	●				●	
E100	29034	HEAVY-DUTY HSS. DEBURRS MATERIALS WITH SPIRAL CHIPS.	●	●		●	●	●				●	
E200	29040	HSS FOR MATERIALS WITH POWDERY CHIPS. ROTATES CLOCKWISE AND COUNTERCLOCKWISE.	●	●					●	●		●	●
E300	29042	HSS FOR MATERIALS WITH SPIRAL CHIPS. SIMULTANEOUSLY DEBURRS THE INSIDE AND OUTSIDE OF HOLES UP TO 0.24" (6 MM) THICK.			●	●	●	●			●		
E350	29044	HSS FOR MATERIALS WITH POWDERY CHIPS. ROTATES CLOCKWISE AND COUNTERCLOCKWISE.	●						●	●		●	

B10		THE BASIC HSS BLADE IS EXCELLENT FOR MATERIALS WITH SPIRAL CHIPS SUCH AS ALUMINUM, PLASTICS, STEELS, ETC. AND HAS A SPECIAL NOSE FOR THE WORKER'S PROTECTION.
		PART NUMBER SV29012

B20		THIS HSS BLADE IS IDEAL FOR BRASS, CAST IRON AND OTHER MATERIALS WITH A POWDERY CHIP. DEBURRS IN BOTH CLOCKWISE & COUNTERCLOCKWISE DIRECTION.
		PART NUMBER SV29019


B30		HOOKED BLADE SIMULTANEOUSLY REMOVES EXTERNAL & INTERNAL BURRS FROM HOLES DRILLED INTO STEELS & PLASTICS UP TO 4MM (0.16") THICK.
		PART NUMBER SV29023


E100		HEAVY DUTY. EXCELLENT FOR MATERIALS WITH SPIRAL CHIPS SUCH AS ALUMINUM, PLASTICS, STEELS, ETC.
		PART NUMBER SV29034


E200		IDEAL FOR BRASS, CAST IRON AND OTHER MATERIALS WITH A POWDERY CHIP. CAN DEBURR IN BOTH CLOCKWISE AND COUNTERCLOCKWISE. GREAT FOR STRAIGHT EDGE AND HOLE EDGE APPLICATIONS.
		PART NUMBER SV29040



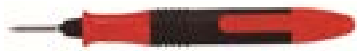

E300		HOOKED BLADE SIMULTANEOUSLY REMOVES BOTH EXTERNAL AND INTERNAL BURRS FROM HOLES DRILLED INTO STEELS AND PLASTICS UP TO 4 MM (0.16") THICK. GREAT FOR OUTER EDGE APPLICATIONS.
		PART NUMBER SV29042

E350		WELL SUITED TO DEBURRING STRAIGHT EDGES, KEYWAYS, ETC. GOOD FOR USE ON BRASS, CAST IRON AND PLASTICS. E350 HEAVY DUTY BLADE WHICH ROTATES CLOCKWISE AND COUNTERCLOCKWISE MADE WITH HI-SPEED STEEL.
		PART NUMBER SV29044

	SHAVIV SET B: CLASSHANDLE A HL	
	SHAVIV B SERIES DEBURRING TOOL SET CONTAINS A SELECTION OF TOOLS YOU NEED TO REMOVE BURRS AND OTHER SURFACE DEFECTS ON STRAIGHT AND FRONT HOLE EDGES.	
	PART NUMBER:	SV29065


	MANGO II E HANDLE	
	THE SHAVIV MANGO II E HANDLE THAT ACCEPTS ALL “E” STYLE BLADES ERGONOMIC LIGHTWEIGHT AND COMPACT DESIGN MADE FOR EXTRA CLOSE WORK, AND ALLOWS FOR QUICK BLADE CHANGE.	
	PART NUMBER:	SV90054


	TOP THREE MANGO II DEBURRING TOOL STARTER KIT	
	KIT INCLUDES MANGO II HANDLE, THREE BLADE HOLDERS, FIVE B BLADES, ONE C BLADE, AND TWO E BLADES FOR LONG-REACH DEBURRING OF HOLE EDGES, STRAIGHT EDGES, AND SMALL DIAMETERS.	
	<ul style="list-style-type: none"> • MANGO II PLASTIC HANDLE HAS AN ERGONOMIC DESIGN FOR COMFORT AND CONTROL • BLADE HOLDERS B, C, AND E PROVIDE LONG-REACH CAPABILITY FOR SHAVIV BLADES • MADE OF HIGH-SPEED STEEL FOR A BROAD RANGE OF MATERIALS AND APPLICATIONS • COMES IN CARRYING CASE FOR STORAGE 	
	PART NUMBER:	SV90085

	DESCRIPTION	PART NUMBER
	C40 RED	SV90078
	C42 RED	SV90079
	E400 RED	SV90080
	CERA-BURR	SV90083

	SCRAPE BURR KIT 3 PLUS 1	
	4-PACK FEATURING THREE SHAVIV “SCRAPE-BURR” MODELS AND ONE “GLO-BURR B” MODEL FOR EASY DEBURRING. FEATURES THE HEAVY DUTY C42, ALL-PURPOSE C40, AND E400 FINE-FINISH SCRAPERS.	
	PART NUMBER	SV90081

WORKS GREAT WITH APPLICATIONS SUCH AS HOLE-EDGE SURFACES AND FLAT SURFACES

	CERAMIX SET Q10	
	THE CERAMIX SET Q10 FEATURES A UNIQUE CERAMIC STYLE HANDLE AND BLADE FOR DEFLASHING PLASTICS. ADJUST THE CUTTING ANGLE BLADE AND THE MATERIAL FOR BEST RESULTS.	
	PART NUMBER:	SV29238

	SAFE CUT KNIFE - HIGH TECH CERAMIC DEBURRING TOOL	
	WILL ELIMINATE ACCIDENTAL CUTS DURING DEBURRING & DEFLASHING OPERATIONS. OUR CERAMIC BLADE WITH ITS 90 DEGREE EDGES, WILL STAY PERFECTLY SHARP WHEN WORKING ON HARD SURFACES.	
	DESCRIPTION	PART NUMBER
	MINI CERAMIC DEBURRING TOOL	SC100M
	CERAMIC DEBURRING TOOL	SC100

MILLSTAR®

A *Cole* TOOLING SYSTEMS CO.



YOUR AUTHORIZED DISTRIBUTOR FOR MILLSTAR PRODUCT LINE

AN INDUSTRY LEADER IN PRODUCING CARBIDE MOLD TOOLING AND CARBIDE CUTTING TOOLS

MILLSTAR PRODUCTS ARE MANUFACTURED IN THE USA



Insert Overview



SD Collet & HM Milling Chucks



Solid Carbide End Mills



Aluminum Milling Cutters



Tool Holder Overview



High Feed Milling



Button Insert Cutters



Profile & Copy Milling Program



Profile Modular Shrink System



APKT Square Shoulder Cutters



Flexibility, Cost Efficiency and Increased Tool Life Without the Chatter



Increased Productivity Meets Excellent Surface Finish



High Temperature Alloys are Tough. HNC Coating is Tougher.



GP JOBBER DRILLS - FRACTIONAL SIZES

GENERAL PURPOSE HIGH SPEED STEEL - MADE IN USA

RIGHT HAND SPIRAL - 118-DEGREE POINT

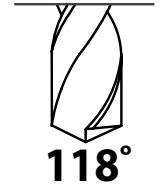
FOR GENERAL PURPOSE DRILLING AND MAINTENANCE APPLICATIONS.



BLACK OXIDE



BRIGHT FINISH



118°

REFERENCE: SEE DRILL AND TAP CHART PG. 210

GP JOBBER DRILLS - FRACTIONAL SIZES

SIZE	DECIMAL EQUIVALENT	FLUTE LENGTH	OVERALL LENGTH	PART NUMBER		QUANTITY
				BLACK OXIDE	BRIGHT FINISH	
1/64	0.0156	0.1875	3/4	JDF164B	JDF164	12
1/32	0.0312	0.5	1-3/8	JDF132B	JDF132	12
3/64	0.0469	0.75	1-3/4	JDF364B	JDF364	12
1/16	0.0625	0.875	1-7/8	JDF116B	JDF116	12
5/64	0.0781	1	2	JDF564B	JDF564	12
3/32	0.0938	1-1/4	2-1/4	JDF332B	JDF564	12
7/64	0.1094	1-1/2	2-5/8	JDF764B	JDF764	12
1/8	0.1250	1-5/8	2-3/4	JDF18B	JDF18	12
9/64	0.1460	1-3/4	2-7/8	JDF964B	JDF964	12
5/32	0.1562	2	3-1/8	JDF532B	JDF532	12
11/64	0.1719	2-1/8	3-1/4	JDF1164B	JDF1164	12
3/16	0.1875	2-5/16	3-1/2	JDF316B	JDF316	12
13/64	0.2031	2-7/16	3-5/8	JDF1364	JDF1364	12
7/32	0.2188	2-1/2	3-3/4	JDF732B	JDF732	12
15/64	0.2344	2-5/8	3-7/8	JDF1564B	JDF1564	12
1/4	0.2500	2-3/4	4	JDF14B	JDF14	12
17/64	0.2656	2-7/8	4-1/8	JDF1764B	JDF1764	12
9/32	0.2812	2-15/16	4-1/4	JDF932B	JDF932	12
19/64	0.2969	3-1/16	4-3/8	JDF1964B	JDF1964	12
5/16	0.3125	3-3/16	4-1/2	JDF516B	JDF516	12
21/64	0.3281	3-5/16	4-5/8	JDF2164B	JDF2164	6
11/32	0.3438	3-7/16	4-3/4	JDF1132B	JDF1132	6
23/64	0.3594	3-1/2	4-7/8	JDF2364B	JDF2364	6
3/8	0.3750	3-5/8	5	JDF38B	JDF38	6
25/64	0.3906	3-3/4	5-1/8	JDF2564B	JDF2564	6
13/32	0.4062	3-7/8	5-1/4	JDF1332B	JDF1332	6
27/64	0.4219	3-15/16	5-3/8	JDF2764B	JDF2764	6
7/16	0.4375	4-1/16	5-1/2	JDF716B	JDF716	6
29/64	0.4531	4-3/16	5-5/8	JDF2964B	JDF2964	6
15/32	0.4688	4-5/16	5-3/4	JDF1532B	JDF1532	6
31/64	0.4844	4-3/8"	5-3/4	JDF3164B	JDF3164	6
1/2	0.5000	4-1/2"	6"	JDF12B	JDF12	6



GP JOBBER DRILLS - LETTER SIZES

GENERAL PURPOSE HIGH SPEED STEEL - MADE IN USA

RIGHT HAND SPIRAL - 118-DEGREE POINT

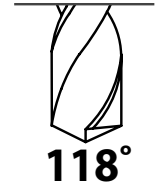
FOR GENERAL PURPOSE DRILLING AND MAINTENANCE APPLICATIONS.



BLACK OXIDE



BRIGHT FINISH



118°

REFERENCE: SEE DRILL AND TAP CHART PG. 210

GP JOBBER DRILLS - LETTER SIZES

SIZE	DECIMAL EQUIVALENT	FLUTE LENGTH	OVERALL LENGTH	PART NUMBER		QUANTITY
				BLACK OXIDE	BRIGHT FINISH	
A	0.2340	2-5/8	3-7/8	JDAB	JDA	12
B	0.2380	2-3/4	4	JDBB	JDB	12
C	0.2420	2-3/4	4	JDCB	JDC	12
D	0.2460	2-3/4	4	Jddb	JDD	12
E	0.2500	2-3/4	4	JDEB	JDE	12
F	0.2570	2-7/8	4-1/8	JDFB	JDF	12
G	0.2610	2-7/8	4-1/8	JDGB	JDG	12
H	0.2660	2-7/8	4-1/8	JGHB	JGH	12
I	0.2720	2-7/8	4-1/8	JDIB	JDI	12
J	0.2770	2-7/8	4-1/8	JDJB	JDJ	12
K	0.2810	2-15/16	4-1/4	JDKB	JDK	12
L	0.2900	2-15/16	4-1/4	JDLB	JDL	12
M	0.2950	3-1/16	4-3/8	JDMB	JDM	12
N	0.3020	3-1/16	4-3/8	JDNB	JDN	12
O	0.3160	3-3/16	4-1/2	JDOB	JDO	12
P	0.3230	3-5/16	4-5/8	JDPB	JDP	6
Q	0.3320	3-7/16	4-3/4	JDQB	JDQ	6
R	0.3390	3-7/16	4-3/4	JDRB	JDR	6
S	0.3480	3-1/2	4-7/8	JDSB	JDS	6
T	0.3580	3-1/2	4-7/8	JDTB	JDT	6
U	0.3680	3-5/8	5	JDUB	JDU	6
V	0.3770	3-5/8	5	JVVB	JDV	6
W	0.3860	3-3/4	5-1/8	JDWB	JDW	6
X	0.3970	3-3/4	5-1/8	JDXB	JDX	6
Y	0.4040	3-7/8	5-1/4	JDYB	JDY	6
Z	0.4130	3-7/8	5-1/4	JDZB	JDZ	6

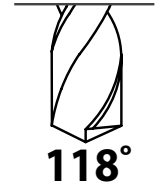


GP JOBBER DRILLS - WIRE GAUGE SIZES

GENERAL PURPOSE HIGH SPEED STEEL - MADE IN USA

RIGHT HAND SPIRAL - 118-DEGREE POINT

FOR GENERAL PURPOSE DRILLING AND MAINTENANCE APPLICATIONS.



REFERENCE: SEE DRILL AND TAP CHART PG. 210

GP JOBBER DRILLS - WIRE GAUGE SIZES

SIZE	DECIMAL EQUIVALENT	FLUTE LENGTH	OVERALL LENGTH	PART NUMBER		QUANTITY
				BLACK OXIDE	BRIGHT FINISH	
1	0.2280	2-5/8	3-7/8	JD1B	JD1	12
2	0.2210	2-5/8	3-7/8	JD2B	JD2	12
3	0.2130	2-1/2	3-3/4	JD3B	JD3	12
4	0.2090	2-1/2	3-3/4	JD4B	JD4	12
5	0.2055	2-1/2	3-3/4	JD5B	JD5	12
6	0.2040	2-1/2	3-3/4	JD6B	JD6	12
7	0.2010	2-7/16	3-5/8	JD7B	JD7	12
8	0.1990	2-7/16	3-5/8	JD8B	JD8	12
9	0.1960	2-7/16	3-5/8	JD9B	JD9	12
10	0.1935	2-7/16	3-5/8	JD10B	JD10	12
11	0.1910	2-5/16	3-1/2	JD11B	JD11	12
12	0.1890	2-5/16	3-1/2	JD12B	JD12	12
13	0.1850	2-5/16	3-1/2	JD13B	JD13	12
14	0.1820	2-3/16	3-3/8	JD14B	JD14	12
15	0.1800	2-3/16	3-3/8	JD15B	JD15	12
16	0.1770	2-3/16	3-3/8	JD16B	JD16	12
17	0.1730	2-3/16	3-3/8	JD17B	JD17	12
18	0.1695	2-1/8	3-1/4	JD18B	JD18	12
19	0.1660	2-1/8	3-1/4	JD19B	JD19	12
20	0.1610	2-1/8	3-1/4	JD20B	JD20	12
21	0.1590	2-1/8	3-1/4	JD21B	JD21	12
22	0.1570	2	3-1/8	JD22B	JD22	12
23	0.1540	2	3-1/8	JD23B	JD23	12
24	0.1520	2	3-1/8	JD24B	JD24	12
25	0.1495	1-7/8	3	JD25B	JD25	12
26	0.1470	1-7/8	3	JD26B	JD26	12
27	0.1440	1-7/8	3	JD27B	JD27	12
28	0.1405	1-3/4	2-7/8	JD28B	JD28	12
29	0.1360	1-3/4	2-7/8	JD29B	JD29	12
30	0.1285	1-5/8	2-3/4"	JD30B	JD30	12
31	0.1200	1-5/8	2-3/4"	JD31B	JD31	12
32	0.1160	1-5/8	2-3/4"	JD32B	JD32	12
33	0.1130	1-1/2	2-5/8	JD33B	JD33	12
34	0.1110	1-1/2	2-5/8	JD34B	JD34	12
35	0.1100	1-1/2	2-5/8	JD35B	JD35	12

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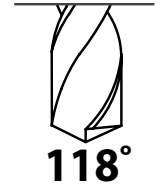


GP JOBBER DRILLS - WIRE GAUGE SIZES

GENERAL PURPOSE HIGH SPEED STEEL - MADE IN USA

RIGHT HAND SPIRAL - 118-DEGREE POINT

FOR GENERAL PURPOSE DRILLING AND MAINTENANCE APPLICATIONS.



REFERENCE: SEE DRILL AND TAP CHART PG. 210

GP JOBBER DRILLS - WIRE GAUGE SIZES

SIZE	DECIMAL EQUIVALENT	FLUTE LENGTH	OVERALL LENGTH	PART NUMBER		QUANTITY
				BLACK OXIDE	BRIGHT FINISH	
36	0.1065	1-7/16	2-1/2	JD36B	JD36	12
37	0.1040	1-7/16	2-1/2	JD37B	JD37	12
38	0.1015	1-7/16	2-1/2	JD38B	JD38	12
39	0.0995	1-3/8	2-3/8	JD39B	JD39	12
40	0.0985	1-3/8	2-3/8	JD40B	JD40	12
41	0.0960	1-3/8	2-3/8	JD41B	JD41	12
42	0.0935	1-1/4"	2-1/4"	JD42B	JD42	12
43	0.0890	1-1/4"	2-1/4"	JD43B	JD43	12
44	0.0860	1-1/8"	2-1/8"	JD44B	JD44	12
45	0.0820	1-1/8"	2-1/8"	JD45B	JD45	12
46	0.0810	1-1/8"	2-1/8"	JD46B	JD46	12
47	0.0785	1"	2"	JD47B	JD47	12
48	0.0760	1"	2"	JD48B	JD48	12
49	0.0730	1"	2"	JD49B	JD49	12
50	0.0700	1"	2"	JD50B	JD50	12
51	0.0670	1"	2"	JD51B	JD51	12
52	0.0635	7/8"	1-7/8"	JD52B	JD52	12
53	0.0595	7/8"	1-7/8"	JD53B	JD53	12
54	0.0550	7/8"	1-7/8"	JD54B	JD54	12
55	0.0520	7/8"	1-7/8"	JD55B	JD55	12
56	0.0465	3/4"	1-3/4"	JD56B	JD56	12
57	0.0430	3/4"	1-3/4"	JD57B	JD57	12
58	0.0420	11/16"	1-5/8"	JD58B	JD58	12
59	0.0410	11/16"	1-5/8"	JD59B	JD59	12
60	0.0400	11/16"	1-5/8"	JD60B	JD60	12



SPIRAL POINT CNC HIGH PERFORMANCE TAP

PREMIUM STEEL POWDERED METAL TAP - MADE IN USA

REFERENCE: SEE DRILL AND TAP CHART PG. 210



STEAM OXIDE OVER NITRIDE



TITANIUM NITRIDE FINISH

"SHEARTAP" OFFERS EXCEPTIONAL VALUE FOR HIGH VOLUME PRODUCTIONS TAPPING IN CARBON STEELS, AND STAINLESS STEELS UP TO 35 RC HARDNESS.

STEAM OXIDE OVER NITRIDE RESISTS CHIP WELDING, INCREASES LUBRICITY AND HELPS TO RETAIN CUTTING FLUID.

TITANIUM NITRIDE FINISH INCREASES HARDNESS AND LUBRICITY FOR IMPROVED THREAD QUALITY, HIGHER SPEEDS AND LONGER TOOL LIFE.

SPIRAL POINT CNC HIGH PERFORMANCE TAP

SIZE	THREAD TYPE	FLUTES	THREAD LENGTH	NECK LENGTH	OAL	SURFACE TREATED				TITANIUM NITRIDE FINISH			
						H2	H3	H4	H5	H2	H3	H4	H5
#4-40	NC	2	0.313	0.25	1 7/8	M034400	M034401	-	M034402	M094400	M094401	-	M094402
#6-32	NC	2	0.375	0.313	2	M034404	M034405	-	M034406	M094404	M094405	-	M094406
#8-32	NC	3	0.375	0.375	2 1/8	M034407	M034408	-	M034409	M094407	M094408	-	M094409
#10-24	NC	3	0.5	0.375	2 3/8	-	M034410	-	-	-	M094410	-	-
#10-32	NF	3	0.5	0.375	2 3/8	M034411	M034412	-	M034413	M094411	M094412	-	M094413
1/4-20	NC	3	0.625	0.375	2 1/2	M034416	M034417	-	M034418	M094416	M094417	-	M094418
1/4-28	NF	3	0.625	0.375	2 1/2	M034419	M034420	M034421	-	M094419	M094420	M094421	-
5/16-18	NC	3	0.688	0.438	2 23/32	-	M034422	-	M034423	-	M094422	-	M094423
5/16-24	NF	3	0.688	0.438	2 23/32	-	M034424	M034425	-	-	M094424	M094425	-
3/8-16	NC	3	0.75	0.5	2 15/16	-	M034426	-	M034427	-	M094426	-	M094427
3/8-24	NF	3	0.75	0.5	2 15/16	-	M034428	M034429	-	-	M094428	M094429	-
7/16-14	NC	3	0.875	0.563	3 5/32	-	M034430	-	M034431	-	M094430	-	M094431
7/16-20	NF	3	0.875	0.563	3 5/32	-	M034432	-	M034433	-	M094432	-	M094433
1/2-13	NC	3	0.938	0.719	3 3/8	-	M034434	-	M034435	-	M094434	-	M094435
1/2-20	NF	3	0.938	0.719	3 3/8	-	M034436	-	M034437	-	M094436	-	M094437
9/16-12	NC	4	1	0.673	3 19/32	-	M034438	-	-	-	M094438	-	-
9/16-18	NF	4	1	0.673	3 19/32	-	M034439	-	-	-	M094439	-	-
5/8-11	NC	4	1.125	0.673	3 13/16	-	M034440	-	-	-	M094440	-	-
5/8-18	NF	4	1.125	0.673	3 13/16	-	M034441	-	-	-	M094441	-	-
3/4-10	NC	4	1.219	0.766	4 1/4	-	M034444	-	-	-	M094444	-	-
3/4-16	NF	4	1.219	0.766	4 1/4	-	M034445	-	-	-	M094445	-	-
7/8-9	NC	4	1.344	0.875	4 11/16	-	-	M034500	-	-	-	M094500	-
7/8-14	NF	4	1.344	0.875	4 11/16	-	-	M034501	-	-	-	M094501	-
1/8	NC	4	1.5	1	5 1/8	-	-	M034502	-	-	-	M094502	-
1-12	NF	4	1.5	1	5 1/8	-	-	M034503	-	-	-	M094503	-
1 1/8-7	NC	4	1.719	0.843	5 7/16	-	-	M034504	-	-	-	M094504	-
1 1/8-12	NF	4	1.719	0.843	5 7/16	-	-	M034505	-	-	-	M094505	-
1 1/4-7	NC	4	1.719	0.843	5 3/4	-	-	M034506	-	-	-	M094506	-
1 1/4-12	NF	4	1.719	0.843	5 3/4	-	-	M034507	-	-	-	M094507	-
1 3/8-6	NC	4	2	1	6 1/16	-	-	M034508	-	-	-	M094508	-
1 3/8-12	NF	4	2	1	6 1/16	-	-	M034509	-	-	-	M094509	-
1 1/2-6	NC	6	2	1	6 3/8	-	-	M034510	-	-	-	M094510	-
1 1/2-12	NF	6	2	1	6 3/8	-	-	M034511	-	-	-	M094511	-
1 3/4-5	NC	6	2.406	0.782	7	-	-	-	M034512*	-	-	-	M094512*
2 - 4 1/2	NC	6	2.688	0.874	7 5/8	-	-	-	M034514*	-	-	-	M094514*

*H7 PITCH DIA. LIMITED (SIZES 1-3/4 TO 5 AND 2 TO 4-1/2)



SPIRAL FLUTE CNC HIGH PERFORMANCE TAP

PREMIUM STEEL POWDERED METAL TAP - MADE IN USA



STEAM OXIDE OVER NITRIDE



TITANIUM NITRIDE FINISH

REFERENCE: SEE DRILL AND TAP CHART PG. 210

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SPIRAL FLUTE CNC HIGH PERFORMANCE TAP - CNC REDUCED NECK DESIGN

SIZE	THREAD TYPE	FLUTES	THREAD LENGTH	NECK LENGTH	OAL	SURFACE TREATED				TITANIUM NITRIDE FINISH			
						H2	H3	H4	H5	H2	H3	H4	H5
#4-40	NC	3	0.236	0.327	1 7/8	M034450	M034451	-	-	M094450	M094451	-	-
#6-32	NC	3	0.236	0.452	2	M034453	M034454	-	M034455	M094453	M094454	-	M094455
#8-32	NC	3	0.236	0.514	2 1/8	M034456	M034457	-	M034458	M094456	M094457	-	M094458
#10-24	NC	3	0.354	0.521	2 3/8	M034459	M034460	-	-	M094459	M094460	-	-
#10-32	NF	3	0.354	0.521	2 3/8	M034461	M034462	-	M034463	M094461	M094462	-	M094463
1/4-20	NC	3	0.433	0.567	2 1/2	-	M034466	-	M034467	-	M094466	-	M094467
1/4-28	NF	3	0.433	0.567	2 1/2	-	M034468	M034469	-	-	M094468	M094469	-
5/16-18	NC	3	0.472	0.653	2 23/32	-	M034470	-	M034471	-	M094470	-	M094471
5/16-24	NF	3	0.472	0.653	2 23/32	-	M034472	M034473	-	-	M094472	M094473	-
3/8-16	NC	3	0.551	0.699	2 15/16	-	M034474	-	M034475	-	M094474	-	M094475
3/8-24	NF	3	0.551	0.699	2 15/16	-	M034476	M034477	-	-	M094476	M094477	-
7/16-14	NC	3	0.591	0.847	3 5/32	-	M034478	-	M034479	-	M094478	-	M094479
7/16-20	NF	3	0.591	0.847	3 5/32	-	M034480	-	M034481	-	M094480	-	M094481
1/2-13	NC	3	0.63	1.026	3 3/8	-	M034482	-	M034483	-	M094482	-	M094483
1/2-20	NF	3	0.63	1.026	3 3/8	-	M034484	-	M034485	-	M094484	-	M094485
9/16-12	NC	3	0.69	0.983	3 19/32	-	M034486	-	-	-	M094486	-	-
9/16-18	NF	3	0.69	0.983	3 19/32	-	M034487	-	-	-	M094487	-	-
5/8-11	NC	3	0.745	1.052	3 13/16	-	M034488	-	-	-	M094488	-	-
5/8-18	NF	3	0.745	1.052	3 13/16	-	M034489	-	-	-	M094489	-	-
3/4-10	NC	4	0.82	1.165	4 1/4	-	M034492	-	-	-	M094492	-	-
3/4-16	NF	4	0.82	1.165	4 1/4	-	M034493	-	-	-	M094493	-	-
7/8-9	NC	4	0.911	1.308	4 11/16	-	-	M034520	-	-	-	M094520	-
7/8-14	NF	4	0.911	1.308	4 11/16	-	-	M034521	-	-	-	M094521	-
1/8	NC	4	1.025	1.475	5 1/8	-	-	M034522	-	-	-	M094522	-
1-12	NF	4	1.025	1.475	5 1/8	-	-	M034523	-	-	-	M094523	-
1 1/8-7	NC	4	1.143	1.419	5 7/16	-	-	M034524	-	-	-	M094524	-
1 1/8-12	NF	4	1.143	1.419	5 7/16	-	-	M034525	-	-	-	M094525	-
1 1/4-7	NC	4	1.143	1.419	5 3/4	-	-	M034526	-	-	-	M094526	-
1 1/4-12	NF	4	1.143	1.419	5 3/4	-	-	M034527	-	-	-	M094527	-
1 3/8-6	NC	4	1.333	1.667	6 1/16	-	-	M034528	-	-	-	M094528	-
1 3/8-12	NF	4	1.333	1.667	6 1/16	-	-	M034529	-	-	-	M094529	-
1 1/2-6	NC	4	1.333	1.667	6 3/8	-	-	M034530	-	-	-	M094530	-
1 1/2-12	NF	4	1.333	1.667	6 3/8	-	-	M034531	-	-	-	M094531	-
1 3/4-5	NC	6	1.6	1.588	7	-	-	-	M034532*	-	-	-	M094532*
2 - 4 1/2	NC	6	1.777	1.588	7 5/8	-	-	-	M034534*	-	-	-	M094534*

*H7 PITCH DIA. LIMITED (SIZES 1-3/4 TO 5 AND 2 TO 4-1/2)



METRIC SPIRAL POINT CNC HIGH PERFORMANCE TAP

PREMIUM STEEL POWDERED METAL TAP - MADE IN USA

CNC REDUCED NECK DESIGN



STEAM OXIDE OVER NITRIDE



TITANIUM NITRIDE FINISH

REFERENCE: SEE DRILL AND TAP CHART PG. 210

METRIC SPIRAL POINT CNC HIGH PERFORMANCE TAP

SIZE	PITCH	PITCH DIA. LIMIT	FLUTES	THREAD LENGTH	NECK LENGTH	OAL	SURFACE TREATED STEAM OXIDE OVER NITRIDE	TITANIUM NITRIDE FINISH
M3	0.5	D3	2	0.313	0.313	1-15/16	M035240	M095240
M3.5	0.6	D4	2	0.375	0.313	2	M035241	M095241
M4	0.7	D4	3	0.375	0.375	2-1/8	M035242	M095242
M5	0.8	D4	3	0.5	0.375	2-3/8	M035243	M095243
M6	1	D5	3	0.625	0.375	2-1/2	M035244	M095244
M7	1	D5	3	0.688	0.438	2-23/32	M035245	M095245
M8	1	D5	3	0.688	0.438	2-23/32	M035246	M095246
M8	1.25	D5	3	0.688	0.438	2-23/32	M035247	M095247
M10	1.25	D5	3	0.75	0.5	2-15/16	M035248	M095249
M10	1.5	D6	3	0.75	0.5	2-15/16	M035249	M095249
M12	1.25	D5	3	0.938	0.719	3-3/8	M035250	M095250
M12	1.75	D6	3	0.938	0.719	3-3/8	M035251	M095251
M14	1.5	D6	4	1	0.673	3-19/32	M035252	M095252
M14	2	D7	4	1	0.673	3-19/32	M035253	M095253
M16	1.5	D6	4	1.125	0.673	3-13/16	M035254	M095254
M16	2	D7	4	1.125	0.673	3-13/16	M035255	M095255
M18	1.5	D6	4	1.125	0.719	4-1/32	M035256	M095256
M18	2.5	D7	4	1.125	0.719	4-1/32	M035257	M095257
M20	1.5	D6	4	1.188	0.812	4-15/32	M035280	M095280
M20	2.5	D7	4	1.188	0.812	4-15/32	M035281	M095281
M22	1.5	D6	4	1.188	1.031	4-11/16	M035282	M095282
M22	2.5	D7	4	1.188	1.031	4-11/16	M035283	M095283
M24	2	D7	4	1.422	0.797	4-29/32	M035284	M095284
M24	3	D8	4	1.422	0.797	4-29/32	M035285	M095285

STANDARD PACKAGE:

M3-M12 - 12 EACH

M14-M18 - 3 EACH

M20-M24 - 1 EACH



METRIC SPIRAL FLUTE CNC HIGH PERFORMANCE TAP

PREMIUM STEEL POWDERED METAL TAP - MADE IN USA



STEAM OXIDE OVER NITRIDE



TITANIUM NITRIDE FINISH

REFERENCE: SEE DRILL AND TAP CHART PG. 210

METRIC SPIRAL POINT CNC HIGH PERFORMANCE TAP

SIZE	PITCH	PITCH DIA. LIMIT	FLUTES	THREAD LENGTH	NECK LENGTH	OAL	SURFACE TREATED STEAM OXIDE OVER NITRIDE	TIN COATED
M3	0.5	D3	3	0.236	0.389	1-15/16	M035240	M095240
M3.5	0.6	D4	3	0.236	0.452	2	M035241	M095241
M4	0.7	D4	3	0.236	0.514	2-1/8	M035242	M095242
M5	0.8	D4	3	0.354	0.521	2-3/8	M035243	M095243
M6	1	D5	3	0.433	0.567	2-1/2	M035244	M095244
M7	1	D5	3	0.472	0.653	2-23/32	M035245	M095245
M8	1	D5	3	0.472	0.653	2-23/32	M035246	M095246
M8	1.25	D5	3	0.472	0.653	2-23/32	M035247	M095247
M10	1.25	D5	3	0.551	0.699	2-15/16	M035248	M095248
M10	1.5	D6	3	0.551	0.699	2-15/16	M035249	M095249
M12	1.25	D5	3	0.63	1.026	3-3/8	M035250	M095250
M12	1.75	D6	3	0.63	1.026	3-3/8	M035251	M095251
M14	1.5	D6	3	0.69	0.983	3-19/32	M035252	M095252
M14	2	D7	3	0.69	0.983	3-19/32	M035253	M095253
M16	1.5	D6	3	0.745	1.052	3-13/16	M035254	M095254
M16	2	D7	3	0.745	1.052	3-13/16	M035255	M095255
M18	1.5	D6	4	0.813	0.983	4-1/32	M035256	M095256
M18	2.5	D7	4	0.813	0.983	4-1/32	M035257	M095257
M20	1.5	D6	4	0.79	1.21	4-15/32	M035280	M095280
M20	2.5	D7	4	0.79	1.21	4-15/32	M035281	M095281
M22	1.5	D6	4	0.79	1.428	4-11/16	M035282	M095282
M22	2.5	D7	4	0.79	1.428	4-11/16	M035283	M095283
M24	2	D7	4	0.94	1.279	4-29/32	M035284	M095284
M24	3	D8	4	0.94	1.279	4-29/32	M035285	M095285

STANDARD PACKAGE:

M3-M12 - 12 EACH

M14-M18 - 3 EACH

M20-M24 - 1 EACH

PITCH DIAMETER LIMITS ARE THOSE RECOMMENDED FOR 6H CLASS OF THREAD.







OVERSIZE CNC HIGH PERFORMANCE TAP

PREMIUM STEEL POWDERED METAL TAP

- OVERSIZE TAPS ARE MAINLY USED FOR PARTS THAT WILL BE PLATED OR HEAT TREATED AFTER TAPPING.
- ALSO USED IN MATERIALS THAT TEND TO SHRINK AFTER TAPPING.

REFERENCE: SEE DRILL AND TAP CHART PG. 210

OVERSIZE CNC HIGH PERFORMANCE TAP

SIZE	THREAD TYPE	PITCH DIAMETER	SPIRAL POINT		SPIRAL FLUTE	
						
		LIMIT H7=.003-.0035" H11=.005-.0055"	SURFACE TREATED STEAM OXIDE OVER NITRIDE	TIN COATED	SURFACE TREATED STEAM OXIDE OVER NITRIDE	TIN COATED
6-32	NC	H7	M034542	M094542	M034592	M094592
8-32	NC	H7	M034544	M094544	M034594	M094594
10-24	NC	H7	M034546	M094546	M034596	M094596
10-32	NF	H7	M034548	M094548	M034598	M094598
1/4-20	NC	H7	M034550	M094550	M034600	M094600
1/4-20	NC	H11	M034551	M094551	M034601	M094601
1/4-28	NF	H7	M034552	M094552	M034602	M094602
1/4-28	NF	H11	M034553	M094553	M034603	M094603
5/16-18	NC	H7	M034554	M094554	M034604	M094604
5/16-18	NC	H11	M034555	M094555	M034605	M094605
5/16-24	NF	H7	M034556	M094556	M034606	M094606
5/16-24	NF	H11	M034557	M094557	M034607	M094607
3/8-16	NC	H7	M034558	M094558	M034608	M094608
3/8-16	NC	H11	M034559	M094559	M034609	M094609
3/8-24	NF	H7	M034560	M094560	M034610	M094610
3/8-24	NF	H11	M034561	M094561	M034611	M094611
7/16-14	NC	H11	M034563	M094563	M034613	M094613
7/16-20	NF	H11	M034565	M094565	M034615	M094615
1/2-13	NC	H11	M034567	M094567	M034617	M094617
1/2-20	NF	H11	M034569	M094569	M034619	M094619
9/16-12	NC	H11	M034571	M094571	M034621	M094621
9/16-18	NF	H11	M034573	M094573	M034623	M094623
5/8-11	NC	H11	M034575	M094575	M034625	M094625
5/8-18	NF	H11	M034577	M094577	M034627	M094627
3/4-10	NC	H11	M034579	M094579	M034629	M094629
3/4-16	NF	H11	M034581	M094581	M034631	M094631
7/8-9	NC	H11	M034583	M094583	M034633	M094633
7/8-14	NF	H11	M034585	M094585	M034635	M094635
1-8	NC	H11	M034587	M094587	M034637	M094637
1/12	NF	H11	M034589	M094589	M034639	M094639
METRIC						
M3 X 0.5		H7	M034670	M094670	M034680	M094690
M4 X 0.7		H7	M034671	M094671	M034681	M094691
M5 X 0.8		H7	M034672	M094672	M034682	M094692
M6 X 1		H11	M034673	M094673	M034683	M094693
M8 X 1.25		H11	M034674	M094674	M034684	M094694
M10 X 1.5		H11	M034675	M094675	M034685	M094695
M12 X 1.75		H11	M034676	M094676	M034686	M094696



SPIRAL POINT PLUG TAPS

GROUND THREAD – HIGH SPEED STEEL

NOT RECOMMENDED FOR NON-FERROUS MATERIALS.



BRIGHT FINISH



STEAM OXIDE TREATED

SPIRAL POINT TAPS

DESIGNED FOR MACHINE TAPPING IN THROUGH HOLES IN A WIDE VARIETY OF MATERIALS. THE POINT EJECTS THE CHIPS AHEAD OF THE TAP, ELIMINATING CHIP DISPOSAL PROBLEMS AND THREAD DAMAGE. SHALLOWER FLUTES ALSO RESULT IN GREATER TAP CORE STRENGTH ALLOWING FOR HIGHER CUTTING SPEEDS.

STEAM OXIDE SURFACE TREATMENT

INCREASES WEAR RESISTANCE, REDUCES FRICTION ACTS AS A LUBRICANT, REDUCES GALLING AND CHIP WELDING. IT IMPROVES CHIP FLOW AND INCREASES TAP LUBRICANT RETENTION.

SPIRAL POINT PLUG TAPS

SIZE	TPI		PITCH DIAMETER LIMIT	THREAD LENGTH	OAL	FLUTES	MACHINE SCREW BRIGHT FINISH	MACHINE SCREW STEAM OXIDE TREATED
	UNC	UNF	BOLD TYPE INDICATES STANDARD H LIMIT.					
0	-	80	H1	5/16	1-5/8	2	M034001	-
	-	80	H2	5/16	1-5/8	2	M034002	M034122
1	64	-	H1	3/8	1-11/16	2	M034003	-
	64	-	H2	3/8	1-11/16	2	M034004	-
2	-	72	H1	3/8	1-11/16	2	M034005	-
	-	72	H2	3/8	1-11/16	2	M034006	M034126
3	56	-	H2	7/16	1-3/4	2	M034008	M034127
	-	64	H2	7/16	1-3/4	2	M034010	-
4	48	-	H2	1/2	1-13/16	2	M034012	M034129
	-	56	H1	1/2	1-13/16	2	M034013	-
5	-	56	H2	1/2	1-13/16	2	M034014	M034131
	40	-	H1	9/16	1-7/8	2	M034015	M034132
6	40	-	H2	9/16	1-7/8	2	M034016	M034133
	-	48	H1	9/16	1-7/8	2	M034017	-
7	-	48	H2	9/16	1-7/8	2	M034018	-
	-	36	H2	9/16	1-7/8	2	M034019	M034134
8	40	-	H1	5/8	1-15/16	2	M034020	-
	40	-	H2	5/8	1-15/16	2	M034021	M034136
9	-	44	H2	5/8	1-15/16	2	M034022	-
	32	-	H1	11/16	2	2	M034023	-
10	32	-	H2	11/16	2	2	M034024	M034137
	32	-	H3	11/16	2	2	M034025	M034138
11	-	40	H2	11/16	2	2	M034026	M034139
	32	-	H1	3/4	2-1/8	2	M034027	-
12	32	-	H2	3/4	2-1/8	2	M034028	M034140
	32	-	H3	3/4	2-1/8	2	M034029	M034141
13	-	36	H2	3/4	2-1/8	2	M034030	M034142
	24	-	H1	7/8	2-3/8	2	M034031	-
14	24	-	H2	7/8	2-3/8	2	M034032	M034143
	24	-	H3	7/8	2-3/8	2	M034033	M034144
15	-	32	H1	7/8	2-3/8	2	M034034	-
	-	32	H2	7/8	2-3/8	2	M034035	M034145
16	-	32	H3	7/8	2-3/8	2	M034036	M034146
	12	-	H3	15/16	2-3/8	2	M034038	M034147
17	-	28	H3	15/16	2-3/8	2	M034039	M034148

STANDARD PACKAGE:
ALL SIZES - 12 EACH



TITANIUM NITRIDE (TIN) COATED SPIRAL POINT PLUG TAPS

GROUND THREAD – HIGH SPEED STEEL MACHINE SCREW

SPIRAL POINT TAPS

DESIGNED FOR MACHINE TAPPING IN THROUGH HOLES IN A WIDE VARIETY OF MATERIALS. THE POINT EJECTS THE CHIPS AHEAD OF THE TAP, ELIMINATING CHIP DISPOSAL PROBLEMS AND THREAD DAMAGE. SHALLOWER FLUTES ALSO RESULT IN GREATER TAP CORE STRENGTH ALLOWING FOR HIGHER CUTTING SPEEDS.

TITANIUM NITRIDE (TIN) COATING

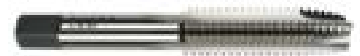
RESULTS IN AN EXTREMELY HARD SURFACE WITH HIGH LUBRICITY FOR INCREASED TOOL LIFE. IMPROVED THREAD QUALITY REDUCED TORQUE AND INCREASED TAPPING SPEED FOR GREATER PRODUCTIVITY.



TITANIUM NITRIDE (TIN) COATED SPIRAL POINT PLUG TAPS

SIZE	PITCH DIA. LIMIT	THREAD LENGTH	OAL	FLUTES	PART NUMBER
0-80	H2	5/16	1-5/8	2	M092520
1-64	H2	3/8	1-11/16	2	M092521
2-56	H2	7/16	1-3/4	2	M092522
2-64	H2	7/16	1-3/4	2	M092523
3-48	H2	1/2	1-13/16	2	M092524
3-56	H2	1/2	1-13/16	2	M092525
4-40	H2	9/16	1-7/8	2	M092526
4-48	H2	9/16	1-7/8	2	M092527
5-40	H2	5/8	1-15/16	2	M092528
5-44	H2	5/8	1-15/16	2	M092529
6-32	H3	11/16	2	2	M092530
6-40	H2	11/16	2	2	M092531
8-32	H3	3/4	2-1/8	2	M092532
8-36	H2	3/4	2-1/8	2	M092533
10-24	H3	7/8	2-3/8	2	M092534
10-32	H3	7/8	2-3/8	2	M092535
12-24	H3	15/16	2-3/8	2	M092536
12-28	H3	15/16	2-3/8	2	M092537

STANDARD PACKAGE:
ALL SIZES – 12 EACH.



+ .005” OVERSIZE SPIRAL POINT PLUG TAPS

SIZE	TPI		PITCH DIA. LIMIT	THREAD LENGTH	OAL	FLUTES	PART NUMBER
	UNC	UNF					
6	32	-	H11	11/16	2	2	M034241
8	32	-	H11	3/4	2-1/8	2	M034243
10	24	-	H11	7/8	2-3/8	2	M034244
10	-	32	H11	7/8	2-3/8	2	M034245
1/4	20	-	H11	1	2-1/2	2	M034251
5/16	18	-	H11	1-1/8	2-23/32	2	M034253
3/8	16	-	H11	1-1/4	2-15/16	3	M034255
1/2	13	-	H11	1-21/32	3-3/8	3	M034259
5/8	11	-	H11	1-13/16	3-13/16	3	M034263

+ .005 OVERSIZE (H11) TAPS ARE MAINLY USED FOR PARTS THAT WILL BE PLATED OR HEAT TREATED AFTER TAPPING. ALSO USED IN MATERIALS THAT TENDS TO SHRINK AFTER TAPPING.



SPIRAL POINT PLUG TAPS



STEAM OXIDE TREATED



BRIGHT FINISH

REFERENCE: SEE DRILL AND TAP CHART PG. 210

SPIRAL POINT TAPS

DESIGNED FOR MACHINE TAPPING IN THROUGH HOLES IN A WIDE VARIETY OF MATERIALS. THE POINT EJECTS THE CHIPS AHEAD OF THE TAP, ELIMINATING CHIP DISPOSAL PROBLEMS AND THREAD DAMAGE. SHALLOWER FLUTES ALSO RESULT IN GREATER TAP CORE STRENGTH ALLOWING FOR HIGHER CUTTING SPEEDS.

STEAM OXIDE SURFACE TREATMENT

INCREASES WEAR RESISTANCE, REDUCES FRICTION ACTS AS A LUBRICANT, REDUCES GALLING AND CHIP WELDING. IT IMPROVES CHIP FLOW AND INCREASES TAP LUBRICANT RETENTION. **NOT RECOMMENDED FOR NON-FERROUS MATERIALS.**

SPIRAL POINT PLUG TAPS

SIZE	TPI		FLUTES		PITCH DIA.	THREAD LENGTH	OAL	BRIGHT FINISH	STEAM OXIDE TREATED
	UNC	UNF	STANDARD	OPTIONAL					
1/4	20	-	2	-	H1	1	2-1/2	M033001	-
	20	-	2	-	H2	1	2-1/2	M033002	M033055
	20	-	2	-	H3	1	2-1/2	M033003	M033056
	20	-	2	-	H5	1	2-1/2	M033004	M033057
	20	-	-	3	H3	1	2-1/2	M033005	-
	20	-	-	3	H5	1	2-1/2	M033006	-
1/4	-	28	2	-	H1	1	2-1/2	M033007	-
	-	28	2	-	H2	1	2-1/2	M033008	M033058
	-	28	2	-	H3	1	2-1/2	M033009	M033059
	-	28	2	-	H4	1	2-1/2	M033010	M033060
	-	28	-	3	H2	1	2-1/2	M033011	-
	-	28	-	3	H4	1	2-1/2	M033012	-
5/16	18	-	2	-	H1	1-1/8	2-23/32	M033013	-
	18	-	2	-	H2	1-1/8	2-23/32	M033014	-
	18	-	2	-	H3	1-1/8	2-23/32	M033015	M033061
	18	-	2	-	H5	1-1/8	2-23/32	M033016	M033062
	18	-	-	3	H3	1-1/8	2-23/32	M033017	M033063
	18	-	-	3	H5	1-1/8	2-23/32	M033018	M033064
5/16	-	24	2	-	H1	1-1/8	2-23/32	M033019	-
	-	24	2	-	H2	1-1/8	2-23/32	M033020	M033065
	-	24	2	-	H3	1-1/8	2-23/32	M033021	M033066
	-	24	2	-	H4	1-1/8	2-23/32	M033022	-
	-	24	-	3	H2	1-1/8	2-23/32	M033023	-
	-	24	-	3	H4	1-1/8	2-23/32	M033024	M033067
3/8	16	-	3	-	H1	1-1/4	2-15/16	M033025	-
	16	-	3	-	H2	1-1/4	2-15/16	M033026	-
	16	-	3	-	H3	1-1/4	2-15/16	M033027	M033068
	16	-	3	-	H5	1-1/4	2-15/16	M033028	M033069
3/8	-	24	3	-	H1	1-1/4	2-15/16	M033029	-
	-	24	3	-	H2	1-1/4	2-15/16	M033030	-
	-	24	3	-	H3	1-1/4	2-15/16	M033031	M033070
	-	24	3	-	H4	1-1/4	2-15/16	M033032	-

STANDARD PACKAGE:

1/4" THROUGH 1/2" – 12 EACH
 9/16" THROUGH 3/4" – 3 EACH



SPIRAL POINT PLUG TAPS



STEAM OXIDE TREATED



BRIGHT FINISH

REFERENCE: SEE DRILL AND TAP CHART PG. 210

SPIRAL POINT TAPS

DESIGNED FOR MACHINE TAPPING IN THROUGH HOLES IN A WIDE VARIETY OF MATERIALS. THE POINT EJECTS THE CHIPS AHEAD OF THE TAP, ELIMINATING CHIP DISPOSAL PROBLEMS AND THREAD DAMAGE. SHALLOWER FLUTES ALSO RESULT IN GREATER TAP CORE STRENGTH ALLOWING FOR HIGHER CUTTING SPEEDS.

STEAM OXIDE SURFACE TREATMENT

INCREASES WEAR RESISTANCE, REDUCES FRICTION ACTS AS A LUBRICANT, REDUCES GALLING AND CHIP WELDING. IT IMPROVES CHIP FLOW AND INCREASES TAP LUBRICANT RETENTION. *NOT RECOMMENDED FOR NON-FERROUS MATERIALS.*

SPIRAL POINT PLUG TAPS

SIZE	TPI	FLUTES	PITCH DIA.	THREAD LENGTH	OAL	BRIGHT FINISH	STEAM OXIDE TREATED
7/16	14	3	H2	1-7/16	3-5/32	M033033	-
	14	3	H3	1-7/16	3-5/32	M033034	M033071
	14	3	H5	1-7/16	3-5/32	M033035	M033072
7/16	20	3	H3	1-7/16	3-5/32	M033036	M033073
	20	3	H5	1-7/16	3-5/32	M033037	M033074
1/2	13	3	H2	1-21/32	3-3/8	M033039	-
	13	3	H3	1-21/32	3-3/8	M033040	M033075
	13	3	H5	1-21/32	3-3/8	M033041	M033076
1/2	20	3	H1	1-21/32	3-3/8	M033042	-
	20	3	H2	1-21/32	3-3/8	M033043	-
	20	3	H3	1-21/32	3-3/8	M033044	M033077
	20	3	H5	1-21/32	3-3/8	M033045	M033078
	20	3	H3	1-13/16	3-13/16	M033046	M033079
5/8	11	3	H3	1-13/16	3-13/16	M033047	M033080
	18	3	H3	1-13/16	3-13/16	M033050	M033081
3/4	10	3	H3	2	4-1/4	M033048	M033082
	10	3	H5	2	4-1/4	M033049	M033083
	16	3	H3	2	4-1/4	M033052	M033084

STANDARD PACKAGE:

1/4" THROUGH 1/2" – 12 EACH

9/16" THROUGH 3/4" – 3 EACH



METRIC SPIRAL POINT PLUG TAPS

GROUND THREAD – HIGH SPEED STEEL – MADE IN USA



BRIGHT FINISH



TIN COATED

REFERENCE: SEE DRILL AND TAP CHART PG. 210

SPIRAL POINT TAPS

DESIGNED FOR MACHINE TAPPING IN THROUGH HOLES IN A WIDE VARIETY OF MATERIALS. THE POINT EJECTS THE CHIPS AHEAD OF THE TAP, ELIMINATING CHIP DISPOSAL PROBLEMS AND THREAD DAMAGE. SHALLOWER FLUTES ALSO RESULT IN GREATER TAP CORE STRENGTH ALLOWING FOR HIGHER CUTTING SPEEDS.

TITANIUM NITRIDE (TIN) COATING

RESULTS IN AN EXTREMELY HARD SURFACE WITH HIGH LUBRICITY FOR INCREASED TOOL LIFE. IMPROVED THREAD QUALITY REDUCED TORQUE AND INCREASED TAPPING SPEED FOR GREATER PRODUCTIVITY.

METRIC SPIRAL POINT PLUG TAPS

SIZE	PITCH DIAMETER LIMIT	THREAD LENGTH	OAL	NO. OF FLUTES	PART NUMBER	
					BRIGHT FINISH	TIN COATED
M1.6 X 0.35	D3	5/16	1-5/8	2	M038516	M098516
M1.8 X 0.35	D3	3/8	1-11/16	2	M038517	M098517
M2 X 0.4	D3	7/16	1-3/4	2	M038518	M098518
M2.2 X 0.45	D3	7/16	1-3/4	2	M038519	M098519
M2.5 X 0.45	D3	1/2	1-13/16	2	M038501	M098501
M3 X 0.5	D3	5/8	1-15/16	2	M038502	M098502
M3.5 X 0.6	D4	11/16	2	2	M038503	M098503
M4 X 0.7	D4	3/4	2-1/8	2	M038504	M098504
M4.5 X 0.75	D4	7/8	2-3/8	2	M038505	M098505
M5 X .08	D4	7/8	2-3/8	2	M038506	M098506
M6 X 1	D5	1	2-1/2	2	M038507	M098507
M7 X 1	D5	1-1/8	2-23/32	2	M038508	M098508
M8 X 1	D5	1-1/8	2-23/32	2	M038520	M098520
M8 X 1.25*	D5	1-1/8	2-23/32	2	M038509	M098509
M10 X 1.25	D5	1-1/4	2-15/16	3	M038521	M098521
M10 X 1.5	D6	1-1/4	2-15/16	3	M038510	M098510
M12 X 1.25	D5	1-21/32	3-3/8	3	M038522	M098522
M12 X 1.75	D6	1-21/32	3-3/8	3	M038511	M098511
M14 X 1.5	D6	1-21/32	3-19/32	3	M038523	M098523
M14 X 2*	D7	1-21/32	3-19/32	3	M038512	M098512
M16 X 1.5	D6	1-13/16	3-13/16	3	M038524	M098524
M16 X 2*	D7	1-13/16	3-13/16	3	M038513	M098513
M18 X 2.5	D7	1-13/16	4-1/32	3	M038514	M098514
M20 X 2.5	D7	2	4-1/32	3	M038515	M098515

PITCH DIAMETERS ARE THOSE RECOMMENDED FOR 6H CLASS OF THREAD.

*DESIGNATES COURSE PITCH



STANDARD PACKAGE:

M1.6 THROUGH M12 – 12 EACH

M14 THROUGH M16 – 3 EACH

M18 THROUGH M20 – 1 EACH

REAMERS STRAIGHT SHANK CHUCKING - FRACTIONAL SIZES

HIGH SPEED STEEL - STRAIGHT FLUTE - RIGHT HAND CUT - MADE IN USA

WIRE GAUGE, LETTERS, DOWEL PIN, METRIC, AND INTERMEDIATE DECIMAL SIZES ALSO AVAILABLE.
COBALT, CARBIDE TIPPED, AND SOLID CARBIDE AVAILABLE AS WELL.

REAMERS STRAIGHT SHANK CHUCKING - FRACTIONAL SIZES

SIZE	DECIMAL EQUIVALENT	SHANK DIAMETER	FLUTE LENGTH	OVERALL LENGTH	NUMBER OF FLUTES	PART NUMBER
3/64	0.0469	0.0455	1/2	2-1/2	4	M022106
1/16	0.0625	0.0585	1/2	2-1/2	4	M022110
5/64	0.0781	0.0720	3/4	3	4	M022116
3/32	0.0938	0.0880	3/4	3	4	M022123
7/64	0.1094	0.1030	7/8	3-1/2	4	M022130
1/8	0.1250	0.1190	7/8	3-1/2	4	M022137
9/64	0.1460	0.1350	1	4	4	M022142
5/32	0.1562	0.1510	1	4	6	M022148
11/64	0.1719	0.1645	1-1/8	4-1/2	6	M022154
3/16	0.1875	0.1805	1-1/8	4-1/2	6	M022161
13/64	0.2031	0.1945	1-1/4	5	6	M022169
7/32	0.2188	0.2075	1-1/4	5	6	M022174
15/64	0.2344	0.2265	1-1/2	6	6	M022178
1/4	0.2500	0.2405	1-1/2	6	6	M022183
17/64	0.2656	0.2485	1-1/2	6	6	M022188
9/32	0.2812	0.2485	1-1/2	6	6	M022193
19/64	0.2969	0.2792	1-1/2	6	6	M022196
5/16	0.3125	0.2792	1-1/2	6	6	M022199
21/64	0.3281	0.2792	1-1/2	6	6	M022203
11/32	0.3438	0.2792	1-1/2	6	6	M022206
23/64	0.3594	0.3105	1-3/4	7	6	M022209
3/8	0.3750	0.3105	1-3/4	7	6	M022212
25/64	0.3906	0.3105	1-3/4	7	6	M022216
13/32	0.4062	0.3105	1-3/4	7	6	M022219
27/64	0.4219	0.3730	1-3/4	7	6	M022221
7/16	0.4375	0.3730	1-3/4	7	6	M022223
29/64	0.4531	0.3730	1-3/4	7	6	M022225
15/32	0.4688	0.3730	1-3/4	7	6	M022226
31/64	0.4844	0.4355	2	8	6	M022227
1/2	0.5000	0.4355	2	8	6	M022229
17/32	0.5312	0.4355	2	8	6	M022231
9/16	0.5625	0.4355	2	8	8	M022232
19/32	0.5937	0.4355	2	8	8	M022233
5/8	0.6250	0.5615	2-1/4	9	8	M022234
21/32	0.6562	0.5615	2-1/4	9	8	M022235
11/16	0.6875	0.5615	2-1/4	9	8	M022236
23/32	0.7187	0.5615	2-1/4	9	8	M022237
3/4	0.7500	0.6240	2-1/2	9-1/2	8	M022238
25/32	0.7812	0.6240	2-1/2	9-1/2	8	M022239
13/16	0.8125	0.6240	2-1/2	9-1/2	8	M022240
27/32	0.8437	0.6240	2-1/2	9-1/2	8	M022241
7/8	0.8750	0.7490	2-5/8	10	8	M022242
29/32	0.9062	0.7490	2-5/8	10	8	M022243
15/16	0.9375	0.7490	2-5/8	10	8	M022244
31/32	0.9687	0.7490	2-5/8	10	8	M022245
1	1.0000	0.8740	2-3/4	10-1/2	8	M022246



Drill and Tap Chart

Drill Size	Decimal	Drill Size	Decimal	Drill Size	Decimal	Drill Size	Decimal	Tap Drill Sizes			Metric Tap Drill Sizes		
0.1mm	.0039	39	.0995	C	.2420	1/2	.5000	-Cutting taps based on approx. 75% full thread -Form tap based on approx. 65% thread			-Recommended drill sizes suitable for 6H tolerance		
0.2mm	.0079	38	.1015	D	.2460	13mm	.5118						
0.3mm	.0118	37	.1040	1/4 & E	.2500	33/64	.5156	Tap Size	Cutting Tap Drill Size	Form Tap Drill Size	Tap Size (Metric)	Cutting Tap Drill Size	Form Tap Drill Size
80	.0135	36	.1065	6.5mm	.2559	17/32	.5312						
79	.0145	7/64	.1094	F	.2570	13.5mm	.5315	0-80	3/64	No. 54	M1.6 x 0.35	1.25mm	
1/64	.0156	35	.1100	G	.2610	35/64	.5469	1-64	No. 53	1.65mm	M1.8 x 0.35	1.45mm	
0.4mm	.0157	34	.1110	17/64	.2656	14mm	.5512	1-72	No. 53	1.7mm	M2 x 0.4	1.60mm	
78	.0160	33	.1130	H	.2660	9/16	.5625	2-56	No. 50	5/64	M2.2 x 0.45	1.75mm	
77	.0180	32	.1160	I	.2720	14.5mm	.5709	2-64	No. 50	2.0mm	M2.5 x 0.45	2.05mm	
0.5mm	.0197	3mm	.1181	7mm	.2756	37/64	.5781	3-48	No. 47	No. 43	M3 x 0.5	2.5mm	7/64
76	.0200	31	.1200	J	.2770	15mm	.5906	3-56	No. 46	2.3mm	M3.5 x 0.6	2.9mm	3.2mm
75	.0210	1/8	.1250	K	.2810	19/32	.5938	4-40	No. 43	No. 39	M4 x 0.7	3.3mm	No. 27
74	.0225	30	.1285	9/32	.2812	39/64	.6094	4-48	No. 42	2.6mm	M4.5 x 0.75	3.75mm	4.10mm
0.6mm	.0236	29	.1360	L	.2900	15.5mm	.6102	5-40	No. 39	No. 33	M5 x 0.8	No. 19	4.60mm
73	.0240	3.5mm	.1378	M	.2950	5/8	.6250	5-44	No. 38	2.9mm	M6 x 1	5mm	5.50mm
72	.0250	28	.1405	7.5mm	.2953	16mm	.6299	6-32	No. 36	1/8	M7 x 1	6mm	6.50mm
71	.0260	9/64	.1406	19/64	.2969	41/64	.6406	6-40	No. 33	3.2mm	M8 x 1.25	H	L
0.7mm	.0276	27	.1440	M	.3020	16.5mm	.6496	8-32	No. 29	No. 25	M8 x 1	J	7.50mm
70	.0280	26	.1470	5/16	.3125	21/32	.6562	8-36	No. 29	No. 24	M10 x 1.5	8.5mm	9.20mm
69	.0292	25	.1495	8mm	.3150	17mm	.6693	10-24	No. 25	11/64	M10 x 1.25	8.75mm	U
68	.0310	24	.1520	O	.3160	43/64	.6719	10-32	No. 21	No. 16	M12 x 1.75	13/32	7/16
1/32	.0312	23	.1540	P	.3230	11/16	.6875	12-24	No. 17	5mm	M12 x 1.25	10.75mm	.447*
0.8mm	.0315	5/32	.1562	21/64	.3281	17.5mm	.6890	12-28	No. 15	No. 8	M14 x 2	12mm	13mm
67	.0320	22	.1570	Q	.3320	45/64	.7031	1/4-20	No. 7	No. 1	M14 x 1.5	12.5mm	13.20mm
66	.0330	4mm	.1575	8.5mm	.3346	18mm	.7087	1/4-28	No. 3	A	M16 x 2	14mm	15mm
65	.0350	21	.1590	R	.3390	23/32	.7188	5/16-18	F	7.3mm	M16 x 1.5	14.5mm	15.25mm
0.9mm	.0354	20	.1610	11/32	.3438	18.5mm	.7283	5/16-24	I	M	M18 x 2.5	15.5mm	16.75mm
64	.0360	19	.1660	S	.3480	47/64	.7344	3/8-16	5/16	8.8mm	M18 x 1.5	16.5mm	17.25mm
63	.0370	18	.1695	9mm	.3543	19mm	.7480	3/8-24	Q	T	M20 x 2.5	17.5mm	47/64
62	.0380	11/64	.1719	T	.3580	3/4	.7500	7/16-14	U	Y	M20 x 1.5	18.5mm	.757*
61	.0390	17	.1730	23/64	.3594	49/64	.7656	7/16-20	W	10.5mm	M22 x 2.5	19.5mm	
1mm	.0394	16	.1770	U	.3680	19.5mm	.7677	1/2-13	27/64	11.8mm	M22 x 1.5	20.5mm	
60	.0400	4.5mm	.1772	9.5mm	.3740	25/32	.7812	1/2-20	29/64	12mm	M24 x 3	53/64	
59	.0410	15	.1800	3/8	.3750	20mm	.7874	9/16-12	31/64	17/32	M24 x 2	22mm	
58	.0420	14	.1820	V	.3770	51/64	.7969	9/16-18	33/64	13.5mm	M27 x 3	24mm	
57	.0430	13	.1850	W	.3860	20.5mm	.8071	5/8-11	17/32	14.75mm	M27 x 2	63/64	
56	.0465	3/16	.1875	25/64	.3906	13/16	.8125	5/8-18	37/64	15.25mm	M30 x 3.5	1-3/64*	
3/64	.0469	12	.1890	10mm	.3937	21mm	.8268	3/4-10	21/32	45/64	M30 x 2	1-7/64*	
55	.0520	11	.1910	X	.3970	53/64	.8281	3/4-16	11/16	23/32	M33 x 3.5	1-11/64*	
54	.0550	10	.1935	Y	.4040	27/32	.8438	7/8-9	49/64		M33 x 2	31mm*	
1.5mm	.0591	9	.1960	13/32	.4062	21.5mm	.8465	7/8-14	13/16		M36 x 4	32mm*	
53	.0595	5mm	.1969	Z	.4130	55/64	.8594	1-8	7/8		M36 x 3	33mm*	*Reaming Recommended
1/16	.0625	8	.1990	10.5mm	.4134	22mm	.8661	1-12	59/64		M39 x 4	35mm*	
52	.0635	7	.2010	27/64	.4219	7/8	.8750	1-14	15/16		M39 x 3	36mm*	
51	.0670	13/64	.2031	11mm	.4331	22.5mm	.8858	Pipe Tap Drill Size					
50	.0700	6	.2040	7/16	.4375	57/64	.8906	Tap Size	NPT** Tap Drill	NPTF** Tap Drill	NPS Tap Drill	NPSF Tap Drill	
49	.0730	5	.2055	11.5	.4528	23mm	.9055	1/16	D	C	1/4	D	
48	.0760	4	.2090	29/64	.4531	29/32	.9062	1/8	R	Q	S	R	
5/64	.0781	3	.2130	15/32	.4688	59/64	.9219	1/4	7/16	7/16	29/64	7/16	
47	.0785	5.5mm	.2165	12mm	.4724	23.5mm	.9252	3/8	37/64	9/16	19/32	37/64	
2mm	.0787	7/32	.2188	31/64	.4844	15/16	.9375	1/2	23/32	45/64	47/64	45/64	
46	.0810	2	.2210	12.5mm	.4921	24mm	.9449	3/4	59/64	29/32	15/16	59/64	
45	.0820	1	.2280			61/64	.9531	1	1-5/32	1-9/64	1-3/16	1-5/32	
44	.0860	A	.2340			24.5mm	.9646	1-1/4	1-1/2	1-31/64	1-33/64		
43	.0890	15/64	.2344			31/32	.9688	1-1/2	1-47/64	1-23/32	1-3/4		
42	.0935	6mm	.2362			25mm	.9843	2	2-7/32	2-3/16	2-7/32		
3/32	.0938	B	.2380			63/64	.9844	2-1/2	2-5/8	2-39/64	2-21/32		
41	.0960					1	1.000	3	3-1/4	3-15/64			
40	.0980							** For Tapping Without Reaming					
2.5mm	.0984												

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