

**NORTON**

SAINT-GOBAIN

# ALWAYS A WINNING HAND

## NORTON ABRASIVES AND TOOLS

An operator's and production foreman's perfect tool: our new Norton pneumatic die grinder quickly and comfortably accomplishes many portable applications without changing machines – including jobs for abrasive specialties (cartridge and spiral rolls...), small diameter flap wheels, mounted points, and carbide burrs.

Equip your new die grinder with the complete line of Norton die-grinding abrasive products and it will run longer, at peak efficiency. Make this one-vendor, perfect pairing of machinery and accessories that your purchasing agent and budget will appreciate, too.



### KEY APPLICATIONS

DEBURRING | MEDIUM TO LIGHT SURFACE CLEANING AND STOCK REMOVAL |  
WELD REMOVAL AND PREP | FINISHING

### KEY INDUSTRIES

METAL FABRICATION | FOUNDRY | SHIPBUILDING | AVIATION | AUTOMOTIVE | MRO

[www.nortonabrasives.com](http://www.nortonabrasives.com)

## FEATURES & BENEFITS

- A double-bearing spindle generates superb concentricity, reducing vibrations and allowing longer use, while producing finer finishes
- Finesse your projects by having the ultimate control in both precision and power with the speed regulator
- Achieve better tool handling, along with reduced fatigue, from the ergonomic and streamlined non-slip grip
- Their small size also enhances control and finishes while their light weight provides additional control, less vibration for operator comfort, and the ability to get into small parts
- Extremely versatile and productivity-enhancing; includes a 1/8" and 1/4" collet to accommodate numerous abrasive products: specialties (including cartridge and spiral rolls, square and cross pads, overlap slotted discs), small diameter 1/8" and 1/4" shank and 1/4"-20 thread mounted flap wheels, mounted points, and carbide burrs
- Excellent value proposition: this is solid tool sold at a GOOD-tier price



## TECHNICAL SPECIFICATIONS

<b>Specifications for:</b>	Norton Pneumatic Die Grinder
<b>Weight of tool:</b>	1.4 lbs.
<b>Compressed air:</b>	6.2 bar (90psi)
<b>Maximum permissible operating pressure:</b>	6.2 bar (90psi)
<b>Recommended operating pressure:</b>	6.2 bar (90psi)
<b>Horsepower:</b>	0.9HP
<b>Free speed:</b>	25,000 rpm
<b>Air consumption @90psi:</b>	85 l/min (3 CFM)
<b>Noise characteristic value in accordance with EN ISO 15744 (ISO 15744):</b>	
A-weighted sound pressure level at workstation	87.3 dB
A-weighted sound power level	98.3 dB
Peak C-weighted instantaneous sound pressure level at workstation	< 130 dB
Measurement uncertainty (Standard)	3 dB
<b>Vibration value according to EN ISO 28927-12:</b>	
<b>Vibration value according to EN ISO 28927-12:</b>	3.00 m/s <sup>2</sup>
<b>Measurement uncertainty (Standard):</b>	0.84 m/s <sup>2</sup>
<b>Recommended lubrications:</b>	Air drill oil 20#
<b>Sanding tool specifications:</b>	Pad Size 2" Collet
	Chuck 1/8" (3 mm) and 1/4" (6 mm)
<b>Applications &amp; suitability:</b>	Final surface finishing, chamfering, deburring of architectural millwork, sheet metal and surface prep, zinc casting, aluminum products, injection molds, etc.; general sanding and polishing.



DESCRIPTION	PART #	QTY.
Single Norton Die Grinder with 1/8" and 1/4" collets	699573 <b>08000</b>	1
Norton Die Grinder Bulk Kit	699573 <b>08001</b>	1
Bulk Kit Includes: 1 - Norton Die Grinder with 1/8" and 1/4" Collets, 100 - 3/8" x 1-1/2" x 1/8" 80 Grit Norton Merit R228 Cartridge Rolls (088341 <b>80232</b> ), 1 - M9 Cartridge Roll Mandrel (088341 <b>81209</b> ), 10 - 1" x 1" x 1/4" Shank 60 Grit Norton Blaze R920 Flap Wheels (66261 <b>151170</b> ), 5 - 1" x 1" W220 1/4" x 1-1/2" Spindle Norton Gemini 38 A60-P Mounted Points (614636 <b>24566</b> ), 1 - 1/2" x 1" SF5 Norton Double-Cut Carbide Burr (699573 <b>08021</b> )		

**NORTON**

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SPECIALTIES

**BEST CHOICE FOR HARD-TO-GRIND MATERIALS INCLUDING SUPER ALLOYS (COBALT, INCONEL, AND TITANIUM) AND STAINLESS STEEL**



## BLAZE R920 CERAMIC ALUMINA

- Premium ceramic alumina abrasive grain provides greatest productivity with significantly faster cut rates; resists wear resulting in 50% – 300% longer life; supersized for cool cutting
- X-weight cotton cloth provides extended durability, conformability, and superior wear resistance; strong resin bond system provides good grain retention and life
- Constructed of rolled and half-glued abrasive strips that break down to expose next layer of abrasive

**BETTER CHOICE FOR ACCESSING TIGHT AREAS AND WHERE LONG LIFE & FAST CUT ARE REQUIRED**



## PINK R928 CERAMIC ALUMINA

- Excellent option for reaching into corners and small areas, ceramic grain provides better performance than aluminum oxide or zirconia alumina alternatives
- Improved resin bond system provides longer life; supersized for cool cutting
- Versatile X-weight poly cotton backing for flexibility and life

**GOOD STARTING SPECIFICATION FOR FLASH REMOVAL, POLISHING, OR REMOVING MACHINETOOL MARKS AND EDGE BREAKING ON ALL TYPES OF METAL**



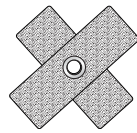
## R228 ALUMINUM OXIDE

- Quality aluminum oxide abrasive delivers long life
- X-weight cotton cloth provides extended durability, conformability, and superior wear resistance; strong resin bond system provides good grain retention and life
- Constructed of rolled and half-glued abrasive strips that break down to expose next layer of abrasive



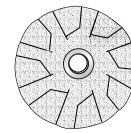
Square Pads

- Corners wear down consistently exposing fresh abrasive; the pad becomes round for less aggressive stock removal
- Grind almost as fast as hard wheels, but are much smoother and easier to control
- For quick blending of channels, fillets, corners, or spotting flat surfaces



Cross Pads

- The shape of cross pads enables you to see through to the contact area, and provides greater flexibility than square pads to conform to variable internal diameters
- Used for close-tolerance polishing of small radii and channels, deburring, and finishing of bell-mouth configurations
- All pads are furnished with standard quick-change eyelet, as listed
- Plain hole sizes must be specified and are available for quotation as made-to-order products



Overlap Slotted Discs

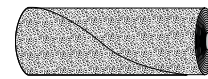
- Used for deburring and polishing radii, holes and cylinder walls
- Our "2 to a set" configuration cuts on the inward motion only
- The "4 to a set" configuration, assembled back to back, cuts on both the inward and outward motions
- All discs are furnished with standard quick-change eyelet
- Plain hole sizes must be specified and are available for quotation as made-to-order products

CARTRIDGE ROLLS



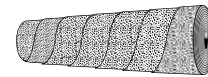
TIER:	BEST	BETTER		
TRADENAME:	<b>BLAZE R920</b>	<b>PINK R928</b>		
ABRASIVE:	Ceramic Alumina	Ceramic Alumina		
OTHER:	Supersize	Supersize		
SIZE (D x L x H)	GRIT	STD. PKG.	PART #	PART #
1/4" x 1-1/2" x 1/8" Use M-9 Mandrel	60	100	662611 <b>94384</b>	699573 <b>39765</b>
	80	100	662611 <b>94394</b>	699573 <b>39766</b>
	120	100	662611 <b>94397</b>	699573 <b>39767</b>
3/8" x 1-1/2" x 1/8" Use M-9 Mandrel	60	100	662611 <b>94392</b>	699573 <b>39768</b>
	80	100	662611 <b>94395</b>	699573 <b>39769</b>
	120	100	662611 <b>94398</b>	699573 <b>39770</b>
1/2" x 1-1/2" x 1/8" Use M-9 Mandrel	60	100	662611 <b>94393</b>	699573 <b>39771</b>
	80	100	662611 <b>94396</b>	699573 <b>39772</b>
	120	100	662611 <b>94399</b>	699573 <b>39774</b>

All cartridge roll part numbers shown are resin bond, half-glued  
Quarter and full glue are also available for quotation as made-to-order products



Cartridge Rolls

- Effective for flash removal, polishing or removing machine tool marks, and edge breaking
- Valuable abrasive tool for reaching into corners, where larger diameter tools cannot work
- Fits into irregular concaves, contours, channels



Spiral Rolls

- All spiral roll part numbers shown are full tapered, resin bond, half glued
- Half-tapered and sidewall-tapered are available for quotation as made-to-order products
- Quarter and full glue are also available for quotation as made-to-order products

SPIRAL ROLLS



TIER:	BEST	BETTER	GOOD		
TRADENAME:	<b>BLAZE R920</b>	<b>PINK R928</b>	<b>R228</b>		
ABRASIVE:	Ceramic Alumina	Ceramic Alumina	Aluminum Oxide		
OTHER:	Supersized	Supersize			
SIZE (D x L x H)	GRIT	STD. PKG.	PART #	PART #	PART #
3/8" x 1" x 1/8"	60	100			088341 <b>80213</b>
	80	100			088341 <b>80214</b>
	120	100			088341 <b>80216</b>
3/8" x 1-1/2" x 1/8"	60	100	662611 <b>94481</b>	699573 <b>39775</b>	088341 <b>80231</b>
	80	100	662611 <b>94490</b>	699573 <b>39785</b>	088341 <b>80232</b>
	120	100	662611 <b>94491</b>	699573 <b>39787</b>	088341 <b>80234</b>
1/2" x 1" x 1/8"	60	100			088341 <b>80287</b>
	80	100			088341 <b>80289</b>
	120	100			088341 <b>80291</b>
1/2" x 1-1/2" x 1/8"	60	100	662611 <b>94484</b>	699573 <b>39790</b>	088341 <b>80307</b>
	80	100	662611 <b>94492</b>	699573 <b>39791</b>	088341 <b>80308</b>
	120	100	662611 <b>94495</b>	699573 <b>39792</b>	088341 <b>80310</b>

SQUARE PADS



TIER:	<b>BEST</b>	<b>BETTER</b>	<b>GOOD</b>
TRADENAME:	<b>BLAZE R920</b>	<b>PINK R928</b>	<b>R228</b>
ABRASIVE:	Ceramic Alumina	Ceramic Alumina	Aluminum Oxide
OTHER:	Supersized	Supersize	

SIZE (L x W x T)	EYELET	GRIT	STD. PKG.	PART #	PART #	PART #
2" x 2" x 1/2"	1/4-20	60	100	662611 <b>94520</b>	699573 <b>40138</b>	
	1/4-20	80	100	662611 <b>94552</b>	699573 <b>40139</b>	088341 <b>84397</b>
	1/4-20	120	100	662611 <b>94554</b>	699573 <b>40141</b>	

CROSS PADS



TIER:	<b>BEST</b>	<b>BETTER</b>	<b>GOOD</b>
TRADENAME:	<b>BLAZE R920</b>	<b>PINK R928</b>	<b>R228</b>
ABRASIVE:	Ceramic Alumina	Ceramic Alumina	Aluminum Oxide
OTHER:	Supersized	Supersize	

SIZE (L x W x T)	PLY	EYELET	GRIT	STD. PKG.	PART #	PART #	PART #
1" x 1" x 3/8"	8	3-48	60	100			088341 <b>84943</b>
	8	3-48	80	100			088341 <b>85519</b>
	8	3-48	120	100			088341 <b>85164</b>
1-1/2" x 1-1/2" x 1/2"	8	8-32	60	100	662611 <b>94496</b>	699573 <b>39793</b>	088341 <b>84258</b>
	8	8-32	80	100	662611 <b>94508</b>	699573 <b>39794</b>	088341 <b>18465</b>
	8	8-32	120	100	662611 <b>94511</b>	699573 <b>39804</b>	088341 <b>82148</b>
2" x 2" x 1/2"	8	8-32	60	100			088341 <b>82156</b>
	8	8-32	80	100			088341 <b>82157</b>
	8	8-32	120	100			088341 <b>82132</b>
2" x 2" x 3/4"	8	8-32	60	100	662611 <b>94502</b>	699573 <b>39806</b>	088341 <b>84128</b>
	8	8-32	80	100	662611 <b>94513</b>	699573 <b>40133</b>	088341 <b>84194</b>
	8	8-32	120	100	662611 <b>94516</b>	699573 <b>40134</b>	

OVERLAP SLOTTED DISCS



TIER:	<b>BEST</b>	<b>GOOD</b>
ABRASIVE:	<b>BLAZE R920</b>	<b>R228</b>
	Ceramic Alumina	Aluminum Oxide
OTHER:	Supersized, 2-Per Set	2-Per Set

SIZE (DIA.)	EYELET	GRIT	STD. PKG.	PART #	PART #
1-1/2"	8-32	60	100	662611 <b>95051</b>	088341 <b>84066</b>
	8-32	80	100	662611 <b>95368</b>	088341 <b>84079</b>
	8-32	120	100	662611 <b>95367</b>	088341 <b>86035</b>
2"	8-32	60	100	662611 <b>95054</b>	
	8-32	80	100	662611 <b>95055</b>	088341 <b>84076</b>
	8-32	120	100	662611 <b>95056</b>	088341 <b>84055</b>

**NORTON**

SAINT-GOBAIN

MOUNTED  
POINTS



**BEST CHOICE FOR HIGH-VOLUME OPERATIONS**



**QUANTUM CERAMIC ALUMINA – VITRIFIED BOND**

- Quantum grain with unique, engineered ceramic grain and shape, specifically developed for high-volume, high-speed alloy grinding operations
- Minimal loading and heat build-up; provide up to 33% longer life and 37% better metal removal rates versus other ceramic points
- Versatile; optimized for all low-, medium-, and high-force vitrified applications
- Oil and Gas 36 grit mounted points; specifically engineered to efficiently grind the carbide matrix material of oil field drill heads

**GOOD VALUE FOR GENERAL PURPOSE, SMALL JOB SHOP APPLICATIONS**



**GEMINI ALUMINUM OXIDE– VITRIFIED BOND**

- 38A abrasive is designed to be cool cutting to minimize burn
- High temperature vitrified bond maximizes form holding and life
- Wide grit range for stock removal, blending/deburring, and finishing/polishing

**SAFETY FIRST**

The die grinder is designed for use with specialties like cartridge rolls, small diameter flap wheels, mounted points, and carbide burrs. This is an UNGUARDED tool and should NEVER be used with cut-off wheels or other bonded abrasive grinding wheels. Never use any accessory that has a MAX RPM rating less than the RPM marked on the tool.

## A & B SHAPES

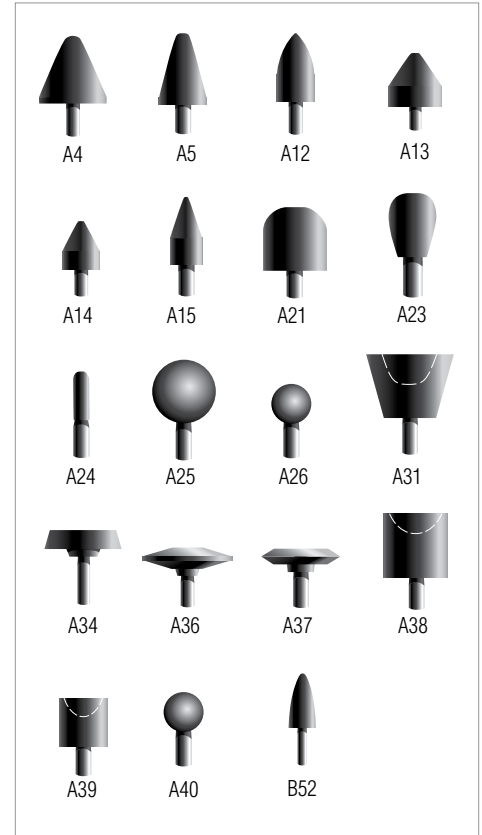


TIER:	<b>BEST</b>	<b>GOOD</b>
BRAND:	Norton	Norton
TRADENAME:	<b>QUANTUM</b>	<b>GEMINI</b>
ABRASIVE:	Ceramic Alumina	38A Aluminum Oxide

SHAPE	SIZE (D x T)	SPINDLE DIA. †	MAX. RPM*	MIN./STD. PKG.	SPEC	PART #	SPEC	PART #
<b>Vitrified Bond Mounted Points – A and B Shapes</b>								
A4	1-1/4" x 1-1/4"	1/4	30,560	5/25			38A60-P	614636 <b>24380</b>
A5	3/4" x 1-1/8"	1/4	45,000	5/25	3NQ80	690831 <b>49140</b>	38A36-T	614636 <b>24381</b>
A5	3/4" x 1-1/8"	1/4	45,000	5/25			38A60-P	614636 <b>24382</b>
A12	11/16" x 1-1/4"	1/4	48,000	5/25	3NQ60	614636 <b>77679</b>	38A60-P	614636 <b>24388</b>
A13	1-1/8" x 1-1/8"	1/4	33,950	5/25			38A60-P	614636 <b>24389</b>
A14	11/16" x 7/8"	1/4	55,560	5/25			38A60-P	614636 <b>24390</b>
A15	1/4" x 1-1/16"	1/4	72,750	5/25			38A60-P	614636 <b>24391</b>
A21	1" x 1"	1/4	34,500	5/25	3NQ80	690831 <b>49144</b>	38A60-P	614636 <b>24392</b>
A23	3/4" x 1"	1/4	39,370	5/25	3NQ80	690831 <b>49143</b>	38A60-P	614636 <b>24394</b>
A24	1/4" x 3/4"	1/4	76,500	5/25			38A60-P	614636 <b>24395</b>
A25	1" Ball	1/4	35,620	5/25	3NQ80	614636 <b>77680</b>	38A60-P	614636 <b>24396</b>
A26	5/8" Ball	1/4	61,120	5/25	3NQ80	690831 <b>49145</b>	38A60-P	614636 <b>24397</b>
A31	1-3/8" x 1"	1/4	27,780	5/25			38A60-P	614636 <b>24399</b>
A34	1-1/2" x 3/8"	1/4	25,470	5/25			38A60-P	614636 <b>24402</b>
A36	1-5/8" x 3/8"	1/4	23,520	5/25	3NQ80	690831 <b>49146</b>	38A60-P	614636 <b>24404</b>
A37	1-1/4" x 1/4"	1/4	30,560	5/25			38A60-P	614636 <b>24405</b>
A38	1" x 1"	1/4	34,500	5/25	3NQ80	614636 <b>77682</b>	38A60-P	614636 <b>24406</b>
A39	3/4" x 3/4"	1/4	47,250	5/25	3NQ80	690831 <b>49147</b>	38A60-P	614636 <b>24407</b>
A40	3/4" Ball	1/4	47,250	5/25			38A60-P	614636 <b>24408</b>
B52	3/8" x 3/4"	1/4	81,000	5/25			38A60-P	614636 <b>24419</b>

† Standard spindle size is 1/4" x 1-1/2"

\* Maximum RPM valid to 1/2" overhang. See package insert for other overhangs.



## W SHAPES

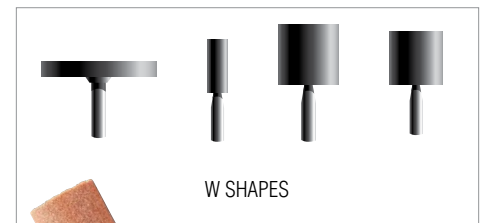


TIER:	<b>BEST</b>	<b>GOOD</b>
BRAND:	Norton	Norton
TRADENAME:	<b>QUANTUM</b>	<b>GEMINI</b>
ABRASIVE:	Ceramic Alumina	38A Aluminum Oxide

SHAPE	SIZE (D x T)	SPINDLE DIA. †	MAX. RPM*	MIN./STD. PKG.	SPEC	PART #	SPEC	PART #
<b>Vitrified Bond Mounted Points – W Shapes</b>								
W185	1/2" x 1/2"	1/4	61,500	5/25			38A60-P	614636 <b>24526</b>
W186	1/2" x 3/4"	1/4	51,000	5/25			38A60-P	614636 <b>24528</b>
W188	1/2" x 1-1/2"	1/4	30,370	5/25			38A60-P	614636 <b>24530</b>
W189	1/2" x 2"	1/4	24,000	25/250	Oil & Gas 36	614636 <b>86137</b>		
W189	1/2" x 2"	1/4	24,000	5/25	3NQ80	614636 <b>77683</b>	38A60-P	614636 <b>24531</b>
W196	5/8" x 1"	1/4	35,250	5/25			38A60-P	614636 <b>24539</b>
W204	3/4" x 3/4"	1/4	42,750	5/25			38A60-P	614636 <b>24549</b>
W205	3/4" x 1"	1/4	34,500	5/25			38A60-P	614636 <b>24550</b>
W216	1" x 1/4"	1/4	38,200	5/25			38A60-P	614636 <b>24562</b>
W218	1" x 1/2"	1/4	38,200	25/250	Oil & Gas 36	690831 <b>154061</b>		
W218	1" x 1/2"	1/4	38,200	5/25			38A60-P	614636 <b>24564</b>
W220	1" x 1"	1/4	25,500	5/25	3NQ80	614636 <b>77685</b>	38A60-P	614636 <b>24566</b>
W235	1-1/2" x 1/4"	1/4	25,470	5/25			38A60-P	614636 <b>24583</b>
W236	1-1/2" x 1/2"	1/4	25,470	5/25	3NQ80	614636 <b>77686</b>	38A60-P	614636 <b>24585</b>

† Spindle size is 1/8" or 1/4" x 1-1/2"

\* Maximum RPM valid to 1/2" overhang. See package insert for other overhangs.



# DOUBLE-CUT CARBIDE BURRS



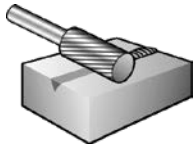
## CARBIDE BURRS FOR STANDARD METAL REMOVAL



### SA

Cylindrical without End Cut

The ends of these burrs are flat, with no cutting edges and are used for contour finishing and to get into right-angled corners.



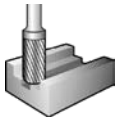
SUB-SHAPE	MAX. RPM	D1	L1	L2	MIN/STD PKG QTY	PART #
SA1	25,000	1/4"	3/4"	2"	1	699573 <b>08002</b>
SA2	25,000	5/16"	3/4"	2-1/2"	1	699573 <b>08003</b>
SA3	25,000	3/8"	3/4"	2-1/2"	1	699573 <b>08004</b>
SA5	25,000	1/2"	1"	2-3/4"	1	699573 <b>08005</b>
SA5	25,000	1/2"	1"	6"	1	699573 <b>60674</b>



### SB

Cylindrical with End Cut

The cutting edge at the end of the burr makes these burrs a good choice for contour finishing.



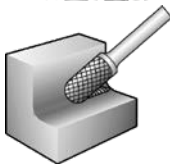
SUB-SHAPE	MAX. RPM	D1	L1	L2	MIN/STD PKG QTY	PART #
SB1	25,000	3/8"	3/4"	2-1/2"	1	699573 <b>08006</b>
SB3	25,000	3/8"	3/4"	6"	1	699573 <b>40156</b>
SB5	25,000	1/2"	1"	2-3/4"	1	699573 <b>08007</b>
SB5	25,000	1/2"	1"	6"	1	699573 <b>40157</b>
SB6	25,000	5/8"	1"	2-3/4"	1	699573 <b>08008</b>



### SC

Ball-Nosed Cylindrical

Use these round-nosed burrs for smoother operation and better tool control.



SUB-SHAPE	MAX.-RPM	D1	L1	L2	MIN/STD PKG QTY	PART #
SC1	25,000	1/4"	3/4"	2"	1	699573 <b>08009</b>
SC2	25,000	5/16"	3/4"	2-1/2"	1	699573 <b>08010</b>
SC3	25,000	3/8"	3/4"	2-1/2"	1	699573 <b>08011</b>
SC3	25,000	3/8"	3/4"	6"	1	699573 <b>60678</b>
SC5	25,000	1/2"	1"	2-3/4"	1	699573 <b>08012</b>
SC5	25,000	1/2"	1"	6"	1	699573 <b>60679</b>
SC5	25,000	1/2"	1"	12"	1	699573 <b>60905</b>
SC6	25,000	5/8"	1"	2-3/4"	1	699573 <b>08013</b>



### SD

Ball Shape

Use these carbide burrs to create a concave and to hollow out a workpiece.



SUB-SHAPE	MAX.-RPM	D1	L1	L2	MIN/STD PKG QTY	PART #
SD1	25,000	1/4"	1/4"	2"	1	699573 <b>08014</b>
SD2	25,000	5/16"	1/4"	2"	1	699573 <b>08015</b>
SD3	25,000	3/8"	5/16"	2-1/8"	1	699573 <b>08016</b>
SD5	25,000	1/2"	7/16"	2-3/16"	1	699573 <b>08017</b>
SD5	25,000	1/2"	7/16"	6"	1	699573 <b>60686</b>
SD9	25,000	1"	15/16"	2-15/16"	1	699573 <b>60865</b>



### SE

Oval Shape

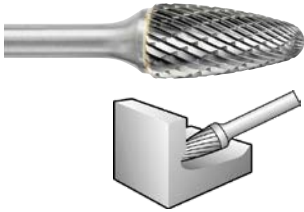
Use the oval-shaped carbide burrs for good reach and round head for shaping.



SUB-SHAPE	MAX.-RPM	D1	L1	L2	MIN/STD PKG QTY	PART #
SE3	25,000	3/8"	5/8"	6"	1	699573 <b>40158</b>
SE5	25,000	1/2"	7/8"	6"	1	699573 <b>40159</b>



**CARBIDE BURRS FOR STANDARD METAL REMOVAL**



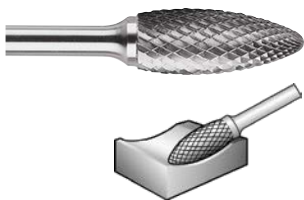
**SF** Ball-Nosed Tree  
Designed to round off edges and make concave cuts.

SUB-SHAPE	MAX.-RPM	D1	L1	L2	MIN/STD PKG QTY	PART #
SF1	25,000	1/4"	3/4"	2"	1	699573 <b>08018</b>
SF2	25,000	5/16"	3/4"	2-1/2"	1	699573 <b>08019</b>
SF3	25,000	3/8"	3/4"	2-1/2"	1	699573 <b>08020</b>
SF3	25,000	3/8"	3/4"	6"	1	699573 <b>60689</b>
SF5	25,000	1/2"	1"	2-3/4"	1	699573 <b>08021</b>
SF5	25,000	1/2"	1"	6"	1	699573 <b>60691</b>
SF5	25,000	1/2"	1"	12"	1	699573 <b>60904</b>
SF6	25,000	5/8"	1"	2-3/4"	1	699573 <b>08022</b>



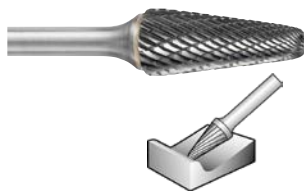
**SG** Tree with Taper  
The taper allows access to hard-to-reach areas, such as angled contours.

SUB-SHAPE	MAX.-RPM	D1	L1	L2	MIN/STD PKG QTY	PART #
SG1	25,000	1/4"	3/4"	2"	1	699573 <b>08023</b>
SG2	25,000	5/16"	3/4"	2-1/2"	1	699573 <b>08024</b>
SG3	25,000	3/8"	3/4"	2-1/2"	1	699573 <b>08025</b>
SG5	25,000	1/2"	1"	2-3/4"	1	699573 <b>08026</b>
SG5	25,000	1/2"	1"	6"	1	699573 <b>60712</b>
SG6	25,000	5/8"	1"	2-3/4"	1	699573 <b>08027</b>
SG13	25,000	3/4"	1-1/2"	3/4"	1	699573 <b>66821</b>
SG15	25,000	3/4"	1-1/2"	1/4"	1	699573 <b>60886</b>



**SH** Flame Shape  
Great for channel working and shaping due to its long fluted sides and rounded head.

SUB-SHAPE	MAX.-RPM	D1	L1	L2	MIN/STD PKG QTY	PART #
SH5	25,000	1/2"	1-1/4"	6"	1	699573 <b>66822</b>



**SL** Ball-Nosed Cone  
This cone shape is excellent for imparting fine finishes.

SUB-SHAPE	MAX.-RPM	D1	L1	L2	MIN/STD PKG QTY	PART #
SL2	25,000	5/16"	7/8"	2-3/4"	1	699573 <b>08028</b>
SL3	25,000	3/8"	1-3/16"	2-15/16"	1	699573 <b>08029</b>
SL3	25,000	3/8"	1-1/16"	6"	1	699573 <b>60716</b>
SL4	25,000	1/2"	1-3/16"	3"	1	699573 <b>08030</b>
SL4	25,000	1/2"	1-3/16"	6"	1	699573 <b>60720</b>
SL5	25,000	1/2"	1"	6"	1	699573 <b>66823</b>



**SM** Pointed Cone  
Ideal for rounded edges or reaching difficult, tight areas.

SUB-SHAPE	MAX.-RPM	D1	L1	L2	MIN/STD PKG QTY	PART #
SM4	25,000	3/8"	5/8"	6"	1	699573 <b>66824</b>
SM5	25,000	1/2"	7/8"	6"	1	699573 <b>60767</b>

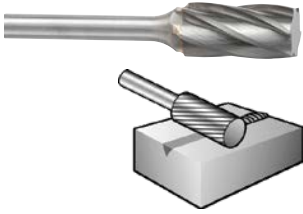
**CARBIDE BURR KIT**



SUB-SHAPE	MIN/STD PKG QTY	PART #
Carbide Burr Kit	1	699573 <b>08060</b>

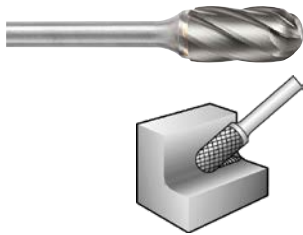
Kit Includes one each of: SA5 (699573**08005**), SF3 (699573**08020**), SF5 (699573**08021**), SG5 (699573**08026**), and SL4 (699573**08030**)

CARBIDE BURRS FOR ALUMINUM AND NON-FERROUS MATERIALS



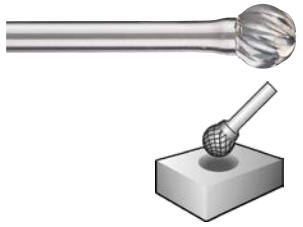
**SA** Cylindrical without End Cut  
The ends of these burrs are flat, with no cutting edges and are used for contour finishing and to get into right-angled corners.

SUB-SHAPE	MAX. RPM	D1	L1	L2	MIN/STD PKG QTY	PART #
SA3 NF	25,000	3/8"	3/4"	2-1/2"	1	699573 <b>40148</b>
SA5 NF	25,000	1/2"	1"	2-3/4"	1	699573 <b>40149</b>



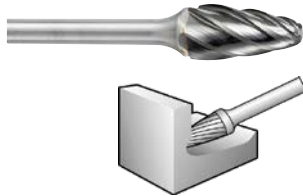
**SC** Ball-Nosed Cylindrical  
Use these round-nosed burrs for smoother operation and better tool control.

SUB-SHAPE	MAX. RPM	D1	L1	L2	MIN/STD PKG QTY	PART #
SC3 NF	25,000	3/8"	3/4"	2-3/4"	1	699573 <b>60150</b>
SC5 NF	25,000	1/2"	1"	6"	1	699573 <b>60657</b>



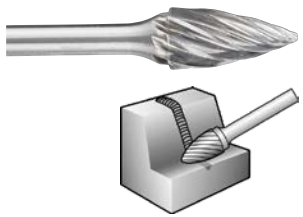
**SD** Ball Shape  
Use these carbide burrs to create a concave and to hollow out a workpiece.

SUB-SHAPE	MAX. RPM	D1	L1	L2	MIN/STD PKG QTY	PART #
SD3 NF	25,000	3/8"	5/16"	2-1/8"	1	699573 <b>66820</b>
SD5 NF	25,000	1/2"	7/16"	2-3/16"	1	699573 <b>40152</b>



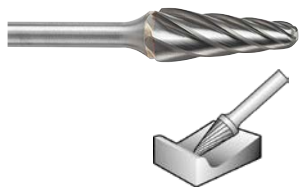
**SF** Ball-Nosed Tree  
Designed to round off edges and make concave cuts.

SUB-SHAPE	MAX. RPM	D1	L1	L2	MIN/STD PKG QTY	PART #
SF1 NF	25,000	1/4"	3/4"	2"	1	699573 <b>40153</b>
SF3 NF	25,000	3/8"	3/4"	2-1/2"	1	699573 <b>40154</b>
SF5 NF	25,000	1/2"	1"	2-3/4"	1	699573 <b>60647</b>



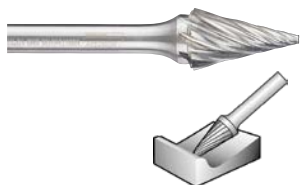
**SG** Tree with Taper  
The taper allows access to hard-to-reach areas, such as angled contours.

SUB-SHAPE	MAX. RPM	D1	L1	L2	MIN/STD PKG QTY	PART #
SG5 NF	25,000	1/2"	1"	2-3/4"	1	699573 <b>60646</b>



**SL** Ball-Nosed Cone  
This cone shape is excellent for imparting fine finishes.

SUB-SHAPE	MAX. RPM	D1	L1	L2	MIN/STD PKG QTY	PART #
SL4 NF	25,000	1/2"	1-1/4"	6"	1	699573 <b>60651</b>



**SM** Pointed Cone  
Ideal for rounded edges or reaching difficult, tight areas.

SUB-SHAPE	MAX. RPM	D1	L1	L2	MIN/STD PKG QTY	PART #
SM3 NF	25,000	1/2"	7/8"	2"	1	699573 <b>40155</b>



FLAP  
WHEELS



**BEST CHOICE FOR HARD-TO-GRIND MATERIALS, INCLUDING SUPERALLOYS (COBALT, INCONEL, AND TITANIUM) AND STAINLESS STEEL**



### BLAZE R920 CERAMIC ALUMINA

- See significantly faster, cooler, burn-free results on the toughest jobs from the next-generation of sharp, longest-lasting P-graded ceramic abrasive grains and advanced grinding aid lubricant
- X-weight cotton flaps provide conformability and even wear
- Advanced self-lubricating grain treatment reduces heat on hard-to-grind materials

**BETTER CHOICE FOR BLENDING, DEBURRING AND FINISHING ON A WIDE RANGE OF MATERIALS**



### PINK R928 CERAMIC ALUMINA

- Ceramic grain provides better performance than zirconia alternatives
- Improved resin bond system provides longer life
- Versatile X-weight poly cotton backing for flexibility and life

**BETTER CHOICE FOR STAINLESS AND CARBON STEEL, AND ALUMINUM, BRASS AND BRONZE**



### R369 HIGH PERFORMANCE ALUMINUM OXIDE

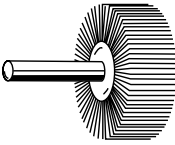
- Long-lasting premium aluminum oxide blend with 2 to 3 times longer life
- Delivers an excellent cut rate on finishing operations
- Heavy cotton/polyester blended flaps provide extended durability, conformability, and superior wear resistance

**GOOD CHOICE WHEN INITIAL PRICE IS A KEY PURCHASING CRITERIA**



### METAL R207 ALUMINUM OXIDE

- P-graded, solid-performing aluminum oxide abrasive delivers uniform stock removal and long life
- Heavy X-weight cotton flaps provide conformability and even wear
- Good general purpose starting specification for small deburring and cleaning jobs



#### Flap Wheels with Mounted Steel Shanks

- Wheels are designed with a 1/8" or 1/4" steel shank as an integral part of each wheel. These shanks run through the wheel creating better balance, a reduction of chatter, and reduced operator fatigue. They also permit quick changes on air tools when using other abrasive products.



#### Flap Wheels with Mounted 1/4"-20 Thread

- Wheels are designed with a 1/4"-20 thread and flange as an integral part of the wheel. These threads facilitate the quickest changes on air tools using flap wheels exclusively, as there are no special tools needed to change the flap wheel. Also allow extended reach with accessory mandrels. This type of flap wheel part numbers is not listed in this brochure but many are in stock, and may be used on our Norton die grinder.

**NORTON**

SAINT-GOBAIN

FLAP  
WHEELS

MINI FLAP WHEELS WITH 1/4"  
MOUNTED STEEL SHANKS



SIZE (D x W x SK.)	GRIT	MAX. RPM	STD. PKG.	TIER: <b>BEST</b>		TIER: <b>BETTER</b>		TIER: <b>GOOD</b>			
				TRADENAME: <b>BLAZE R920</b>	ABRASIVE: Ceramic Alumina	BACKING: X-Weight Cotton	TRADENAME: <b>PINK R928</b>	ABRASIVE: Ceramic Alumina	BACKING: X-Weight Poly/Cotton	TRADENAME: <b>R369</b>	ABRASIVE: Premium Aluminum Oxide Blend
				PART #	PART #	PART #	PART #	PART #	PART #		
3/4" x 5/8" x 1/4"	60	35,000	10			088341 <b>37580</b>					
	80	35,000	10			088341 <b>37581</b>					
	120	35,000	10			088341 <b>37582</b>					
3/4" x 3/4" x 1/4"	60	35,000	10			088341 <b>37590</b>					
	80	35,000	10			088341 <b>37591</b>					
	120	35,000	10			088341 <b>37592</b>					
1" x 5/8" x 1/4"	60	30,000	10			088341 <b>37580</b>		636425 <b>02576</b>			
	80	30,000	10			088341 <b>37581</b>		636425 <b>02577</b>			
	120	30,000	10			088341 <b>37582</b>		636425 <b>02578</b>			
1" x 1" x 1/4"	40	30,000	10		699573 <b>39701</b>	088341 <b>37590</b>					
	60	30,000	10	662611 <b>51170</b>	699573 <b>39702</b>	088341 <b>37591</b>		636425 <b>02580</b>			
	80	30,000	10	662611 <b>51171</b>	699573 <b>39703</b>	088341 <b>37592</b>		636425 <b>02581</b>			
	120	30,000	10	662611 <b>51172</b>	699573 <b>39704</b>	088341 <b>37580</b>		636425 <b>02582</b>			
	180	30,000	10			088341 <b>37581</b>					
	240	30,000	10			088341 <b>37582</b>					
	320	30,000	10			088341 <b>37590</b>					
1-3/8" x 5/8" x 1/4"	60	30,000	10			088341 <b>37591</b>					
	80	30,000	10			088341 <b>37592</b>					
1-1/2" x 1" x 1/4"	40	25,000	10			088341 <b>37580</b>					
	60	25,000	10			088341 <b>37581</b>		636425 <b>02592</b>			
	80	25,000	10			088341 <b>37582</b>		636425 <b>02593</b>			
	120	25,000	10			088341 <b>37590</b>		636425 <b>02594</b>			
	180	25,000	10			088341 <b>37591</b>					
1-1/2" x 1-1/2" x 1/4"	240	25,000	10			088341 <b>37592</b>					
	40	25,000	10			088341 <b>30642</b>					
	60	25,000	10			088341 <b>30643</b>					
	80	25,000	10			088341 <b>30644</b>					
2" x 1" x 1/4"	120	25,000	10			088341 <b>30641</b>					
	40	25,000	10		699573 <b>39705</b>	088341 <b>37377</b>					
	60	25,000	10	662611 <b>51173</b>	699573 <b>39706</b>	088341 <b>37370</b>					
	80	25,000	10	662611 <b>51174</b>	699573 <b>39711</b>	088341 <b>37371</b>					
	120	25,000	10	662611 <b>51175</b>	699573 <b>39712</b>	088341 <b>37372</b>					
	180	25,000	10			088341 <b>37373</b>					
2" x 1-1/2" x 1/4"	240	25,000	10			088341 <b>37374</b>					
	320	25,000	10			088341 <b>37375</b>					
	60	25,000	10			088341 <b>37380</b>					
	80	25,000	10			088341 <b>37411</b>					
2" x 1-1/2" x 1/4"	120	25,000	10			088341 <b>37412</b>					

Micro-mini flap wheels with 1/8" mounted steel shanks are also available, as well as flap wheels with 1/4"-20 thread.

**BEST** – Blaze R920, Quantum

**BETTER** – Pink R928, R369, Gemini

**GOOD** – Metal R207, R228

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**CANADA CUSTOMER SERVICE:**

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**FORM #8700** REV. 04/22

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