

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

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

Specifications for:	Norton Pneumatic Die Grinder
Weight of tool:	1.4 lbs.

Compressed air:	6.2 bar (90psi)
Maximum permissible operating pressure:	6.2 bar (90psi)
Recommended operating pressure:	6.2 bar (90psi)
Horsepower:	0.9HP
Free speed:	25,000 rpm
Air consumption @90psi:	85 l/min (3 CFM)

Noise characteristic value in accordance with EN ISO 15744 (ISO 15744):	
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

Vibration value according to EN ISO 28927-12:	3.00 m/s ²
Measurement uncertainty (Standard):	0.84 m/s ²

Recommended lubrications:	Air drill oil 20#
Sanding tool specifications:	Pad Size 2" Collet Chuck 1/8" (3 mm) and 1/4" (6 mm)

Applications & suitability:	Final surface finishing, chamfering, deburring of architectural millwork, sheet metal and surface prep, zinc casting, aluminum products, injection molds, etc.; general sanding and polishing.
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DESCRIPTION	PART #	QTY.
Single Norton Die Grinder with 1/8" and 1/4" collets	699573 08000	1
Norton Die Grinder Bulk Kit	699573 08001	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 80232), 1 - M9 Cartridge Roll Mandrel (088341 81209), 10 - 1" x 1" x 1/4" Shank 60 Grit Norton Blaze R920 Flap Wheels (662611 151170), 5 - 1" x 1" W220 1/4" x 1-1/2" Spindle Norton Gemini 38 A60-P Mounted Points (614636 24566), 1 - 1/2" x 1" SF5 Norton Double-Cut Carbide Burr (699573 08021)		



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 MACHINE TOOL MARKS AND EDGE BREAKING ON ALL TYPES OF METAL



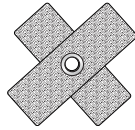
R228 ALUMINUM OXIDE

- 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



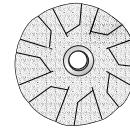
Square Pads

- 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

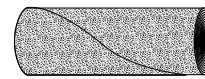
- Used for deburring and polishing radii, holes and cylinder walls
- Our "2 to a set" configuration cuts on the inward motion only
- The "4 to a set" configuration, assembled back to back, cuts on both the inward and outward motions
- All discs are furnished with standard quick-change eyelet
- Plain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

CARTRIDGE ROLLS



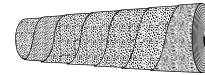
TIER:	BEST	BETTER
TRADENAME:	BLAZE R920	PINK R928
ABRASIVE:	Ceramic Alumina	Ceramic Alumina
OTHER:	Supersize	Supersize
STD. PKG.	PART #	PART #
100	662611 94384	699573 39765
100	662611 94394	699573 39766
100	662611 94397	699573 39767
100	662611 94392	699573 39768
100	662611 94395	699573 39769
100	662611 94398	699573 39770
100	662611 94393	699573 39771
100	662611 94396	699573 39772
100	662611 94399	699573 39774

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:	BLAZE R920	PINK R928	R228
			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 80213	
	80	100			088341 80214	
	120	100			088341 80216	
3/8" x 1-1/2" x 1/8"	60	100	662611 94481	699573 39775	088341 80231	
	80	100	662611 94490	699573 39785	088341 80232	
	120	100	662611 94491	699573 39787	088341 80234	
1/2" x 1" x 1/8"	60	100			088341 80287	
	80	100			088341 80289	
	120	100			088341 80291	
1/2" x 1-1/2" x 1/8"	60	100	662611 94484	699573 39790	088341 80307	
	80	100	662611 94492	699573 39791	088341 80308	
	120	100	662611 94495	699573 39792	088341 80310	

SQUARE PADS



TIER:	BEST	BETTER	GOOD
TRADENAME:	BLAZE R920	PINK R928	R228
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 94520	699573 40138	
	1/4-20	80	100	662611 94552	699573 40139	088341 84397
	1/4-20	120	100	662611 94554	699573 40141	

CROSS PADS



TIER:	BEST	BETTER	GOOD
TRADENAME:	BLAZE R920	PINK R928	R228
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 84943
	8	3-48	80	100			088341 85519
	8	3-48	120	100			088341 85164
1-1/2" x 1-1/2" x 1/2"	8	8-32	60	100	662611 94496	699573 39793	088341 84258
	8	8-32	80	100	662611 94508	699573 39794	088341 18465
	8	8-32	120	100	662611 94511	699573 39804	088341 82148
2" x 2" x 1/2"	8	8-32	60	100			088341 82156
	8	8-32	80	100			088341 82157
	8	8-32	120	100			088341 82132
2" x 2" x 3/4"	8	8-32	60	100	662611 94502	699573 39806	088341 84128
	8	8-32	80	100	662611 94513	699573 40133	088341 84194
	8	8-32	120	100	662611 94516	699573 40134	

OVERLAP SLOTTED DISCS



TIER:	BEST	GOOD
ABRASIVE:	BLAZE R920	R228
	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 95051	088341 84066
	8-32	80	100	662611 95368	088341 84079
	8-32	120	100	662611 95367	088341 86035
2"	8-32	60	100	662611 95054	
	8-32	80	100	662611 95055	088341 84076
	8-32	120	100	662611 95056	088341 84055

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

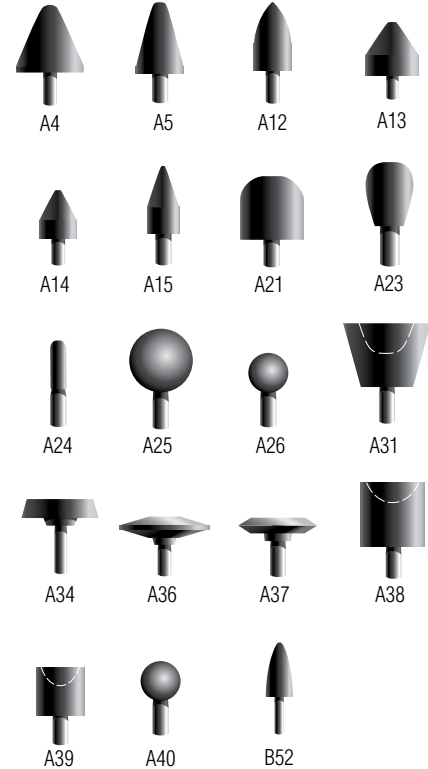


TIER:	BEST	GOOD
BRAND:	Norton	Norton
TRADENAME:	QUANTUM	GEMINI
ABRASIVE:	Ceramic Alumina	38A Aluminum Oxide

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

† 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

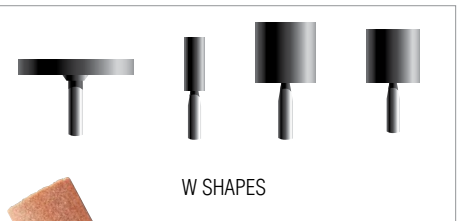


TIER:	BEST	GOOD
BRAND:	Norton	Norton
TRADENAME:	QUANTUM	GEMINI
ABRASIVE:	Ceramic Alumina	38A Aluminum Oxide

SHAPE	SIZE (D x T)	SPINDLE DIA.†	MAX. RPM*	MIN./STD. PKG.	SPEC	PART #	SPEC	PART #
Vitrified Bond Mounted Points – W Shapes								
W185	1/2" x 1/2"	1/4	61,500	5/25			38A60-P	614636 24526
W186	1/2" x 3/4"	1/4	51,000	5/25			38A60-P	614636 24528
W188	1/2" x 1-1/2"	1/4	30,370	5/25			38A60-P	614636 24530
W189	1/2" x 2"	1/4	24,000	25/250	Oil & Gas 36	614636 86137		
W189	1/2" x 2"	1/4	24,000	5/25	3NQ80	614636 77683	38A60-P	614636 24531
W196	5/8" x 1"	1/4	35,250	5/25			38A60-P	614636 24539
W204	3/4" x 3/4"	1/4	42,750	5/25			38A60-P	614636 24549
W205	3/4" x 1"	1/4	34,500	5/25			38A60-P	614636 24550
W216	1" x 1/4"	1/4	38,200	5/25			38A60-P	614636 24562
W218	1" x 1/2"	1/4	38,200	25/250	Oil & Gas 36	690831 54061		
W218	1" x 1/2"	1/4	38,200	5/25			38A60-P	614636 24564
W220	1" x 1"	1/4	25,500	5/25	3NQ80	614636 77685	38A60-P	614636 24566
W235	1-1/2" x 1/4"	1/4	25,470	5/25			38A60-P	614636 24583
W236	1-1/2" x 1/2"	1/4	25,470	5/25	3NQ80	614636 77686	38A60-P	614636 24585

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

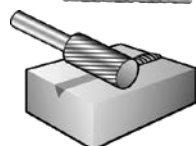
* Maximum RPM valid to 1/2" overhang. See package insert for other overhangs.



DOUBLE-CUT CARBIDE BURRS



CARBIDE BURRS FOR STANDARD METAL REMOVAL

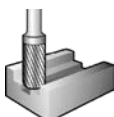


SA

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 08002
SA2	25,000	5/16"	3/4"	2-1/2"	1	699573 08003
SA3	25,000	3/8"	3/4"	2-1/2"	1	699573 08004
SA5	25,000	1/2"	1"	2-3/4"	1	699573 08005
SA5	25,000	1/2"	1"	6"	1	699573 60674

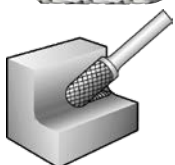


SB

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 08006
SB3	25,000	3/8"	3/4"	6"	1	699573 40156
SB5	25,000	1/2"	1"	2-3/4"	1	699573 08007
SB5	25,000	1/2"	1"	6"	1	699573 40157
SB6	25,000	5/8"	1"	2-3/4"	1	699573 08008

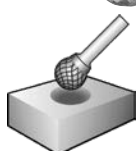


SC

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 08009
SC2	25,000	5/16"	3/4"	2-1/2"	1	699573 08010
SC3	25,000	3/8"	3/4"	2-1/2"	1	699573 08011
SC3	25,000	3/8"	3/4"	6"	1	699573 60678
SC5	25,000	1/2"	1"	2-3/4"	1	699573 08012
SC5	25,000	1/2"	1"	6"	1	699573 60679
SC5	25,000	1/2"	1"	12"	1	699573 60905
SC6	25,000	5/8"	1"	2-3/4"	1	699573 08013

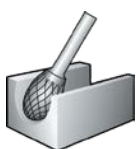


SD

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 08014
SD2	25,000	5/16"	1/4"	2"	1	699573 08015
SD3	25,000	3/8"	5/16"	2-1/8"	1	699573 08016
SD5	25,000	1/2"	7/16"	2-3/16"	1	699573 08017
SD5	25,000	1/2"	7/16"	6"	1	699573 60686
SD9	25,000	1"	15/16"	2-15/16"	1	699573 60865



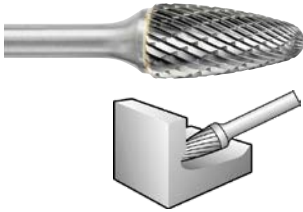
SE

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 40158
SE5	25,000	1/2"	7/8"	6"	1	699573 40159

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 08018
SF2	25,000	5/16"	3/4"	2-1/2"	1	699573 08019
SF3	25,000	3/8"	3/4"	2-1/2"	1	699573 08020
SF3	25,000	3/8"	3/4"	6"	1	699573 60689
SF5	25,000	1/2"	1"	2-3/4"	1	699573 08021
SF5	25,000	1/2"	1"	6"	1	699573 60691
SF5	25,000	1/2"	1"	12"	1	699573 60904
SF6	25,000	5/8"	1"	2-3/4"	1	699573 08022

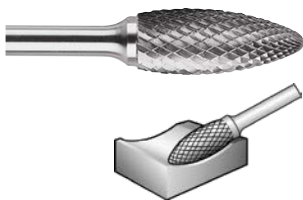


SG

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 08023
SG2	25,000	5/16"	3/4"	2-1/2"	1	699573 08024
SG3	25,000	3/8"	3/4"	2-1/2"	1	699573 08025
SG5	25,000	1/2"	1"	2-3/4"	1	699573 08026
SG5	25,000	1/2"	1"	6"	1	699573 60712
SG6	25,000	5/8"	1"	2-3/4"	1	699573 08027
SG13	25,000	3/4"	1-1/2"	3/4"	1	699573 66821
SG15	25,000	3/4"	1-1/2"	1/4"	1	699573 60886

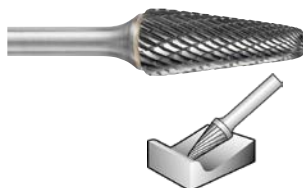


SH

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 66822



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 08028
SL3	25,000	3/8"	1-3/16"	2-15/16"	1	699573 08029
SL3	25,000	3/8"	1-1/16"	6"	1	699573 60716
SL4	25,000	1/2"	1-3/16"	3"	1	699573 08030
SL4	25,000	1/2"	1-3/16"	6"	1	699573 60720
SL5	25,000	1/2"	1"	6"	1	699573 66823



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 66824
SM5	25,000	1/2"	7/8"	6"	1	699573 60767

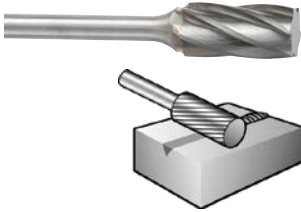
CARBIDE BURR KIT



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

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

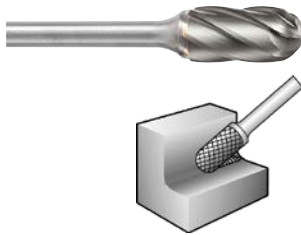


SA

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 40148
SA5 NF	25,000	1/2"	1"	2-3/4"	1	699573 40149

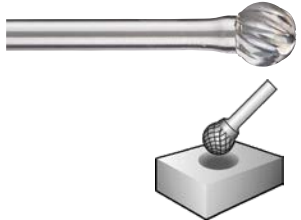


SC

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 40150
SC5 NF	25,000	1/2"	1"	6"	1	699573 60657

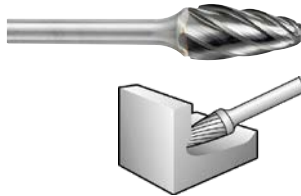


SD

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 66820
SD5 NF	25,000	1/2"	7/16"	2-3/16"	1	699573 40152

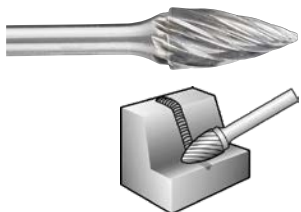


SF

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 40153
SF3 NF	25,000	3/8"	3/4"	2-1/2"	1	699573 40154
SF5 NF	25,000	1/2"	1"	2-3/4"	1	699573 60647

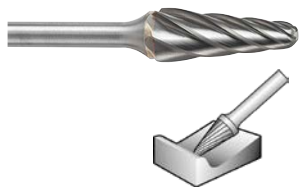


SG

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 60646

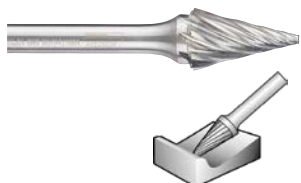


SL

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 60651



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 40155

NORTON

SAINT-GOBAIN

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

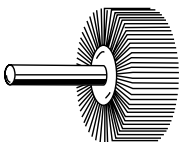
- Long-lasting premium aluminum oxide blend with 2 to 3 times longer life
- Delivers an excellent cut rate on finishing operations
- Heavy cotton/polyester blended flaps provide extended durability, conformability, and superior wear resistance

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



				TIER: BEST	BETTER	BETTER	GOOD
				TRADENAME: BLAZE R920	PINK R928	R369	R207
				ABRASIVE: Ceramic Alumina	Ceramic Alumina	Premium Aluminum Oxide Blend	Aluminum Oxide
				BACKING: X-Weight Cotton	X-Weight Poly/Cotton	Y-Weight Cotton	X-Weight Cotton
SIZE (D x W x SK.)	GRIT	MAX. RPM	STD. PKG.	PART #	PART #	PART #	PART #
3/4" x 5/8" x 1/4"	60	35,000	10			088341 37580	
	80	35,000	10			088341 37581	
	120	35,000	10			088341 37582	
3/4" x 3/4" x 1/4"	60	35,000	10			088341 37590	
	80	35,000	10			088341 37591	
	120	35,000	10			088341 37592	
1" x 5/8" x 1/4"	60	30,000	10			088341 37580	636425 02576
	80	30,000	10			088341 37581	636425 02577
	120	30,000	10			088341 37582	636425 02578
1" x 1" x 1/4"	40	30,000	10		699573 39701	088341 37590	
	60	30,000	10	662611 51170	699573 39702	088341 37591	636425 02580
	80	30,000	10	662611 51171	699573 39703	088341 37592	636425 02581
	120	30,000	10	662611 51172	699573 39704	088341 37580	636425 02582
	180	30,000	10			088341 37581	
	240	30,000	10			088341 37582	
	320	30,000	10			088341 37590	
1-3/8" x 5/8" x 1/4"	60	30,000	10			088341 37591	
	80	30,000	10			088341 37592	
1-1/2" x 1" x 1/4"	40	25,000	10			088341 37580	
	60	25,000	10			088341 37581	636425 02592
	80	25,000	10			088341 37582	636425 02593
	120	25,000	10			088341 37590	636425 02594
	180	25,000	10			088341 37591	
	240	25,000	10			088341 37592	
1-1/2" x 1-1/2" x 1/4"	40	25,000	10			088341 30642	
	60	25,000	10			088341 30643	
	80	25,000	10			088341 30644	
	120	25,000	10			088341 30641	
2" x 1" x 1/4"	40	25,000	10		699573 39705	088341 37377	
	60	25,000	10	662611 51173	699573 39706	088341 37370	
	80	25,000	10	662611 51174	699573 39711	088341 37371	
	120	25,000	10	662611 51175	699573 39712	088341 37372	
	180	25,000	10			088341 37373	
	240	25,000	10			088341 37374	
	320	25,000	10			088341 37375	
2" x 1-1/2" x 1/4"	60	25,000	10			088341 37380	
	80	25,000	10			088341 37411	
	120	25,000	10			088341 37412	

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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FORM #8700 REV. 04/22

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NO-RISK TEST

