

BONDED & SUPER ABRASIVES



NORTON

SAINT-GOBAIN®

BONDED ABRASIVES	PAGE
Technical Information	3 - 10
Safety Advice	11 - 12
Bench, Surface, Tool & Cutter Wheels	13 - 14
Toolroom Grinding Wheels	15 - 20
Saw & Knife Sharpening Wheels.	21 - 22
Dressing Products	23
Automotive Reconditioning Wheels	24
Mounted Points	25 - 27
Foundry/Portable Grinding	28 - 32
Sharpening Stones	33 - 34
 SUPERABRASIVES	
Diamond & CBN Grinding	36 - 38

Minimum Order Value \$300.00

Orders below Minimum Order Value are subject to a \$20.00 surcharge

*Please quote Product Number when placing orders.
Effective January 2014.*

Warranty Terms and Conditions

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure'.

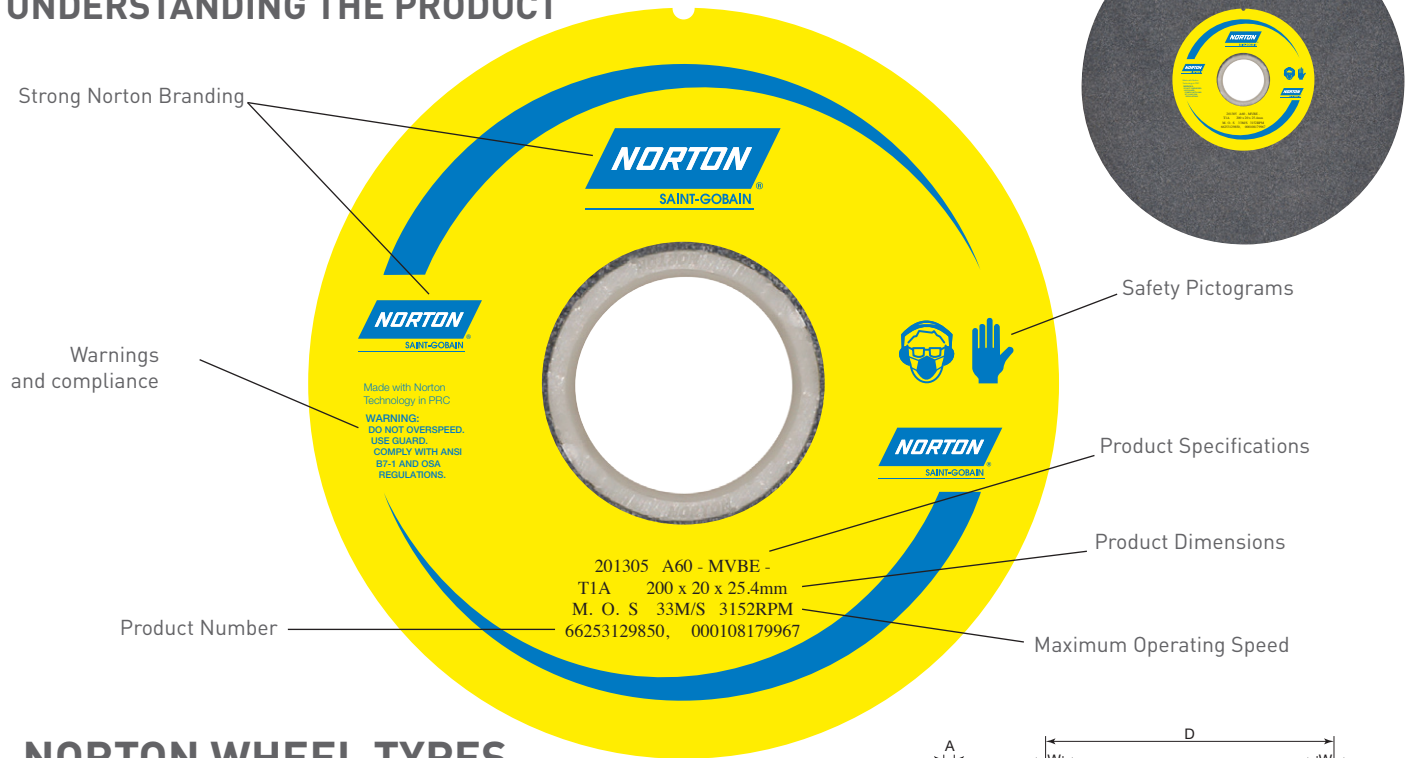
The following terms and conditions will apply to all warranty claims.

- a) *All items purchased by the Purchaser, where the items are properly applied and operated under the usual conditions of operation (and in accordance with the directions, and observing the warnings, in the Owner's Handbook) are warranted against failure due to faulty materials or workmanship for a period of 12 months from the date of delivery of the items to the Purchaser; such warranty to cover repair or replacement of defective parts at the Company's premises and subject to clause 2. INSPECTION AND RETURN OF GOODS;*
- b) *All warranties supplied by the Company are limited to compensation of an amount totaling no more than the unit cost price of the item.;*
- c) *The Company's warranties shall be null and void and to no effect if:*
 - i) *The items sold are abused or in any respect whatsoever operated outside the limits of the specifications and design;*
 - ii) *Any defects complained of are caused by fair wear and tear, accident, theft, willful damage, negligence or untrained or unskilled use in the operation or storage of items;*
 - iii) *The Purchaser in any respect alters the items purchased or adds to them or removes any materials from such items; or*
 - iv) *The Purchaser fails to immediately notify the Company in writing of any defect or fault in the items purchased or fails to provide full details of any such failure or fault prior to returning the items to the company.*
- d) *The warranty does not cover items which malfunction as a result of improper installation or misuse, nor any resulting loss or damage either direct, indirect or consequential.*
- e) *All machines must be fitted with a thermal overload device (e.g. D.O.L. Starter) to maintain warranty coverage.*
- f) *The foregoing warranties and conditions are subject to the Australian Trade Practices Act 1974, the Fair Trading Acts of each State and Territory of Australia and the Goods Act of the State of Victoria (and corresponding legislation in each State and Territory) and in New Zealand subject to New Zealand Consumer Guarantees Act 1993 where the Act applies to the purchase of items by the Purchaser. The Act shall not apply where items are purchased for the purposes of a business.*

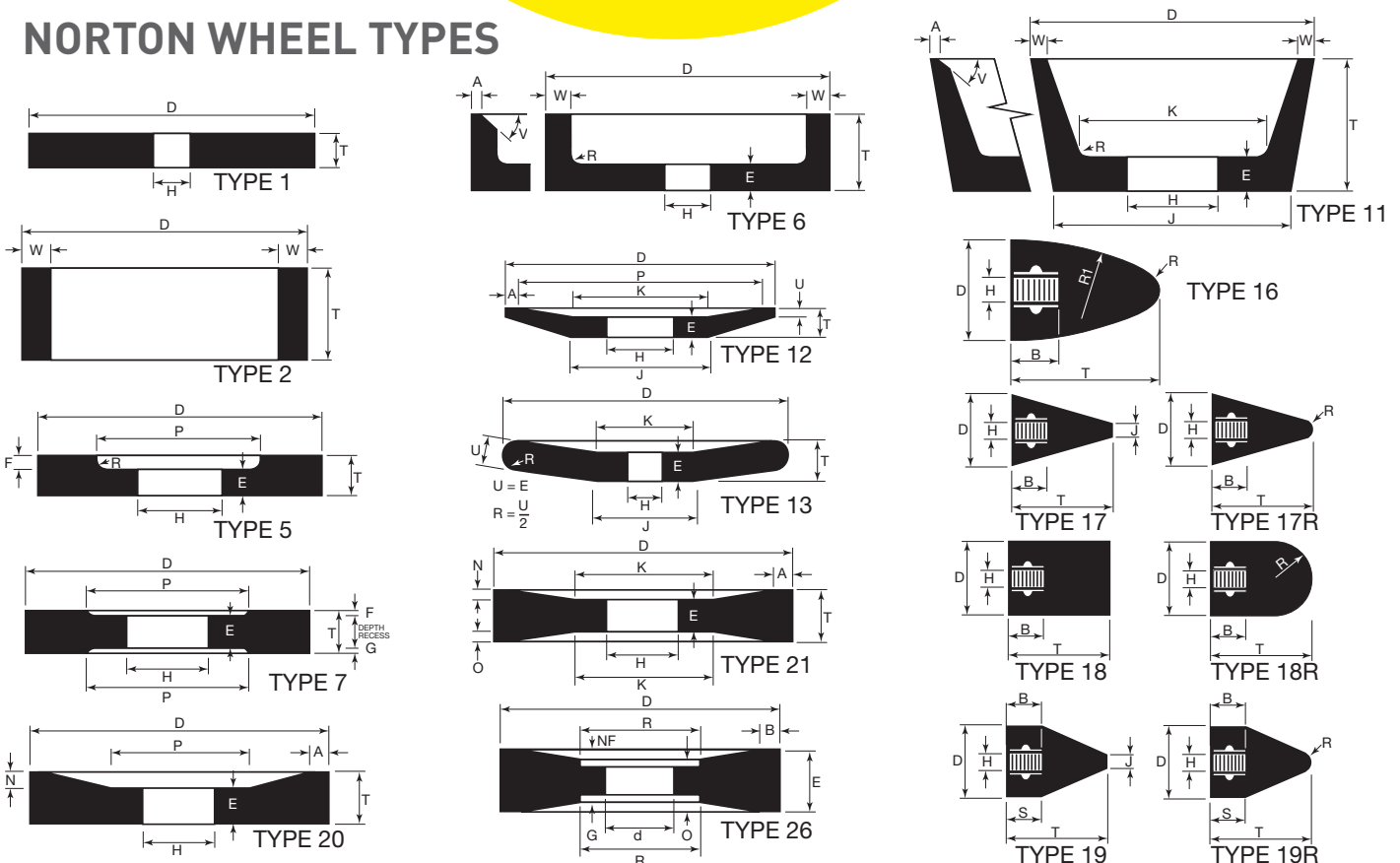
INTRODUCTION

From standard aluminum oxide bench wheels to premium ceramic abrasive surface grinding wheels, Norton offers high performance abrasive solutions that can maximise productivity in virtually all industrial applications. The extensive product range is designed to meet all your precision grinding and roughing application needs, with all the most appropriate abrasive specifications, including grinding wheels, segments, mounted points, dressing sticks and sharpening stones. Norton, the industry's most comprehensive Bonded abrasive product line.

UNDERSTANDING THE PRODUCT



NORTON WHEEL TYPES



ABRASIVE TYPES

CERAMIC ALUMINIUM OXIDE

Norton SG, Norton Quantum are patented ceramic forms of aluminium oxide that is harder and sharper than conventional abrasive grains. The ceramic grain has a unique microcrystalline structure and when used in a grinding operation this microstructure becomes self-sharpening. This leads to a reduction in the need for wheel dressing and a considerably cooler cutting action.

ALUMINIUM OXIDE

Generally recommended for grinding materials of high tensile strength, such as stainless steel and tool steels, but it can also be used on some high tensile aluminium and bronze alloys. It is manufactured in varying qualities.

SILICON CARBIDE

Harder than aluminium oxide with a very sharp abrasive grain shape. It is recommended for grinding relatively soft materials such as aluminium or cast iron as well as grinding extremely hard materials such as cemented carbide.

ZIRCONIA ALUMINA

For use in rough grinding applications where high stock removal is required. Associated with high tech resin bonds.

GRIT SIZE

The number in the grinding wheel, marking designating grit size, represents the approximate number of openings per linear inch in the final screen size used to size the grain. The following rules should be followed:

USE COARSE GRIT

- For soft, ductile, stringy materials such as soft steel or aluminium
- For rapid stock removal
- Where finish is not important
- For large areas of contact.

USE FINE GRIT

- For hard, brittle materials such as hard tool steels, cemented carbides & glass
- For fine finishes
- For small areas of contact
- For holding small corner radii.

WHEEL GRADE

The grade indicates the relative holding power of the bond, which holds abrasive grains in a wheel. This is represented in the specification by letters running through the alphabet from softest to hardest. The following rules should be followed with regard to grade:

USE SOFT GRADE

- For hard materials such as hard tool steels & carbides
- For large areas of contact
- For rapid stock removal.

USE HARD GRADE

- For soft materials
- For small or narrow areas on contact
- For longer wheel life.

COMMON RANGES OF GRADES

E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
					CYLINDRICAL/CENTRELESS											
SURFACE GRINDING																
					I.D. GRINDING											
					TOOL GRINDING											
					THREAD GRINDING											
NON-REINFORCED ORGANIC																
											REINFORCED ORGANIC					

BOND TYPES - VITRIFIED

Vitrified bonds are the most common precision grinding bond. Porosity and strength of the wheels made with this bond give high stock removal along with their rigidity helping to attain high precision.

Not affected by water, acid, oils or ordinary temperature variations. The most common vitrified bonds are:

VK/VSC	Used with Silicon Carbide abrasive for range of applications involving non ferrous materials.
VBE	Versatile, high temperature. The original general purpose vitrified bond system used in wide range of applications predominantly for tool room, centreless, cylindrical and surface grinding.
VH	Medium temperature bond used with conventional and ceramic abrasives and recommended for higher speeds. It also has superior form holding ability.
VS	Versatile low temp Bond used with Ceramic abrasives for a wide range of precision applications in precision applications
VSP/VBEP	Induced porosity, this bond suitable for large contact areas and surface grinding
VS3/VS3P	This is a premium bond used with conventional and premium abrasives including Quantum technology for Hi-Tech applications. It is capable of high speeds and is the preferred bond in high demand applications.

BOND TYPES - ORGANIC

These bonds are used in two types of wheels. Firstly, wheels used on portable or fixed machines for the rapid removal of metal. Secondly, cutting-off wheels either un-reinforced or reinforced, for use on portable or fixed machines.

The most common organic bonds are:

SNAGGING WHEELS & CUPS

B3 & B7	Foundry wheels: multi-purpose bond that gives satisfactory results on most applications
B24	Versatile bond suitable for most technical applications
B/B5	Original bonds suitable for wide range of low force applications.
B38	Foundry wheels with Zirconia abrasives
B98	Premium Bond specially developed for Spring Grinding with Quantum technology

UNDERSTANDING THE SPECIFICATION

ABRASIVE			GRIT SIZE			GRADE			STRUCTURE		BOND
ALUMINIUM OXIDE	SILICON CARBIDE	CERAMIC ALUMINIUM OXIDE	COARSE	MEDIUM	FINE	SOFT	MEDIUM	HARD	CLOSED	OPEN	
A	37C	SGB	12	30	80	E	I	P	5	10	VBE
19A	39C	3SG	16	36	90	F	J	Q		11	VBEP
25A		5SG	20	46	100	G	K	R		12	VH
38A		1TGP	24	54	120	H	L	S			VS
40A				60			M	T			
57A				70			N				
88A							O				
IPA			46	60	80	ME	HA	EH	17	26	VTX
										20	
		5NQ		60	80	J	K	L			VS3
										12	VS3P

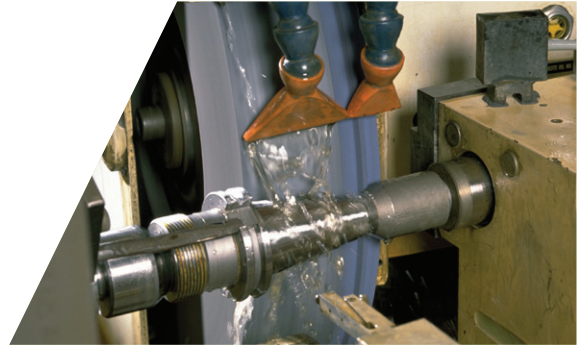
COMPARATIVE GRAIN TYPES

NORTON	A	19A	32A	38A	-	53A	57A	-	3SG	88A	25A	-	37C	39C	3NQX
ANCHOR	A	19A	32A/87A	AA	DA	53A	57A	-	CX	PA	RA	-	CX	GC	-
KINIK	A, 10A	19A	32A	WA	64A	53A	57A	-	3KG	PA	PSA	RA	C	GC	-
TYROLIT	A, 10A	50A	90A	89A	-	69A	52A	30A	-	91A	-	-	1C	C	-
RAPPOLD	31A	61A	67A	42A	-	64A	-	-	93A	57A	-	-	-	11C	-
CUMI	A	-	-	AA	-	-	-	-	-	-	RAA	-	C	GC	-

APPLICATION GUIDE

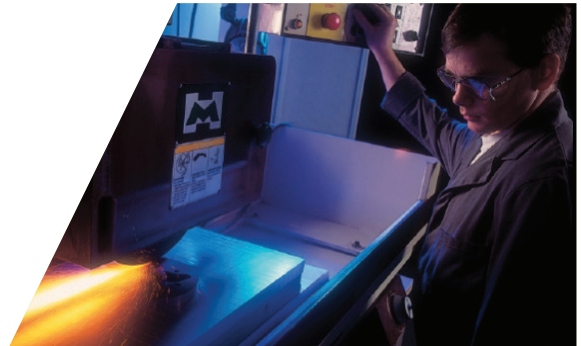
CYLINDRICAL GRINDING

Cylindrical grinding includes all outside grinding of round work, even when the finished product is not always a true cylinder. Requirements in cylindrical grinding vary from fast stock removal to ultra smooth (mirror) finishes. Cylindrical wheels are used extensively in the automotive, aerospace, shipbuilding, engine manufacture, turbine manufacture and bearing industry, as well as general shops and tool rooms.



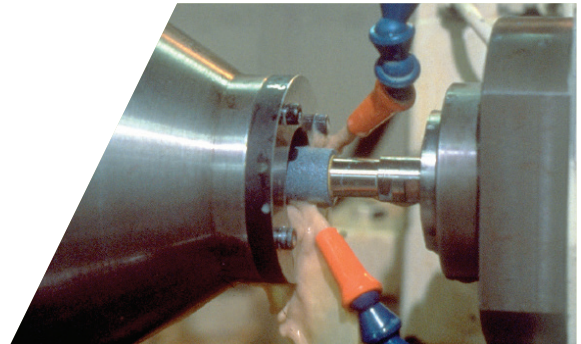
SURFACE GRINDING

The term surface grinding is used to describe the grinding of flat surfaces in which the wheel moves past the workpiece in a flat plane, or vice versa. Surface grinding applications range from heavy rapid stock removal, to precision contour grinding.



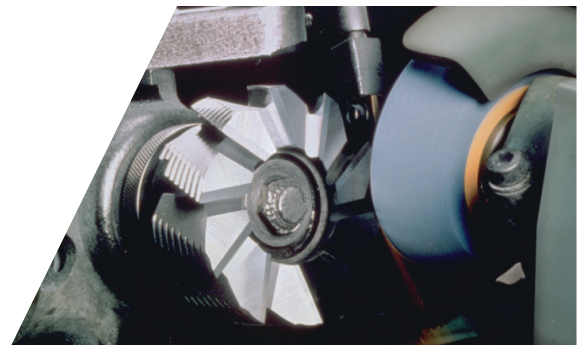
INTERNAL GRINDING

Internal grinding refers to the grinding of bores or holes and is probably one of the most difficult types of grinding. Internal grinding applications range from very rapid stock removal to more controlled processes capable of generating sizes and concentricity measured in microns.



TOOL & CUTTER

Tool room grinding refers to the maintenance and repair of the cutting tools used in manufacturing operations. Wheels of all sizes and shapes are used in tool and cutter applications. Most wheels used are vitrified, in grit sizes 36 to 220, and in grades H through to N.



MATERIAL	CYLINDRICAL	INTERNAL	SURFACE	TOOL & CUTTER
Aluminium	37C 46 KVK	37C80 IVK	37C 46 KVK	
			38A 54 I12 BEP	
Brass / Bronze	37C 60 KVK	37C 80 IVK	37C 46 KVK	
			38A 54 I12 VBEP	
Cast Iron	37C 60 KVK	37C 80 MVK	37C 54 JVK	
	38A 60 KVBE	38A 80 MVS	38A 54 JVK	
Ceramic (green)	38A 60 KVBE	38A 80 I10VXP	38A 60 J10VQP	
Ceramic (fired)	39C 100 KVS			
Chrome Plate	SGB 80 I10 BEP	SNQ 80 JVQN	SGB 70 G12 VBEP	
	38A 80 J10 BEP		86A 70 G12 BEP	
Crankshaft (regrind)	19A 60 MVBE			
Glass (cutting)			39C 60 KVK	
Glass (polishing)			A150 MVBE	
Aerospace Alloys Nimonic, Inconel, Hastalloy	3NQ 80 I10 VH	5NQ 60 KVH	IPA 60 HA26VTX	
	SGB 80 I10 VBEP	SGB 60 KVBE	3NQ 60 G12 VQNP	
Plastics	37C 80 JVK	5NQ 60 KVQN	IPA 60 XH20VTX	
	SGB 80 IVXP			
Metal Spray	39C 60 KVK	39C 80 IVK	39C 46 KVK	
	39C 100 KVK			
Rubber	IPA 60 HA26VTX			
	37C 46 E12VBEP			
Steel - soft (Up to 45Rc)	57A 60 LVBE	SGB 60 KVG	SGB 54 KVBE	
	SGB 60 LVG	38A 60 LVBE	38A 46 KVBE	
Steel - high carbon high chrome content - (46 - 56 Rc) D2, D3 etc.	3NQ 60 KVQN	5NQ 60 KVQN	IPA 60 XH17VTX	
	SGB 60 KVG	SGB 60 KVG	3SG 60 JVG	
Steel - Hardened (Over 56 Rc)	3SG 60 KVG	5NQ 80 KVQN	1TPG 60 HVX	5NQ 80 JVQN
	SGB 60 KVBE	5SG 60 KVGE	IPA 60 HA20VTX	SGB 60 JVBE
		3SG 60 KVG	3SG 60 IVBEP	
Stainless Steel	39C 60 KVK	39C 80 JVBE	39C 60 JVBE	
	SGB 60 KVBE	5NQ 60 KVQN	SGB 54 I12VXP	
		SGB 60 KVBE		
Stellite	38A 60 LVBE	SGB 60 KVBE	SGB 60 H12VXPM	
Titanium	39C 60 KVK	39C 60 KVK	39C 60 KVK	
High Speed Steel	3NQ 60 KVQN	5NQ 60 JVQN	SGB 54 I12VXP	3NQ 60 KVQN
	SGB 60 KVBE	SGB 60 JVKBE	IPA 60 EH20VTX	SGB 60 JVBE
			3NQ 54 I12VXP	38A 60 JVBE
Tungsten Carbide	39C 80 JVK	39C 80 IVK	39C 80 IVK	39C 80 JVK

SAW SHARPENING

Saw sharpening refers to the maintenance and repair of sawblades. Vitrified flat wheels and cups are used in grit sizes 54 to 60. Resin treatment reinforces the wheel and helps reduce wheel face deformation.



MATERIAL	TYPE OF TOOTH	OPERATION	RESIN	WHEEL GRADE	REFERENCE	RECOMMENDED SPEC
High quality steel	Large	All	None	Soft	MTVS	19A 60 MVBE MTVS
Standard quality steel	Small	All	None	Hard	MDVS	19A 60 JVBE MDVS
Standard quality steel	Double cut	Finishing	1mm Resin Coated on one side	Soft	T6	38A 60 MVBE
Treated steel	Swage	Roughing		Medium	M6	86A 54 KVBE
		Finishing		Soft	T6	38A 60 MVBE
Stellite tipped	Stellite tipped	Finishing		Soft	T6	38A 60 MVBE T6
		Roughing		Medium	M6	86A 54 KVS KVBE
		Truing	Hard	D6	86A 54 KVBE	

BEST

Quantum



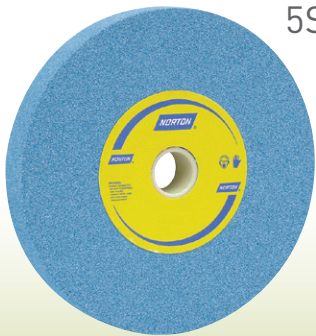
FEATURES

- Engineered ceramic grain shape and chemistry with new bond technology
- A perfect blend between sharpness (free cutting) and toughness (life)

BENEFITS

- Versatile in low, medium and high force applications
- 30% to 100% higher metal removal rate
- > 15% lower threshold power

5SG



FEATURES

- Very high concentration of SG ceramic aluminium oxide abrasive

BENEFITS

- Ultimate cutting capability
- High removal rate and extended wheel life
- Perfect for technical applications where grinding parameters can be adjusted to optimise performance

BETTER

SGB



FEATURES

- Medium concentration of SG ceramic aluminium oxide
- Harder and sharper than conventional abrasive grains

BENEFITS

- Good cutting capability
- Suitable for low to medium power machines
- Very versatile on a wide variety of steels

38A



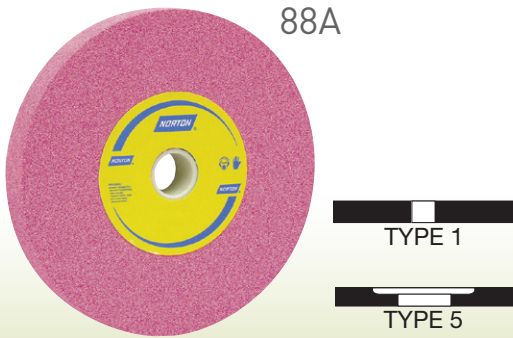
FEATURES

- High purity white aluminium oxide abrasive
- Friable

BENEFITS

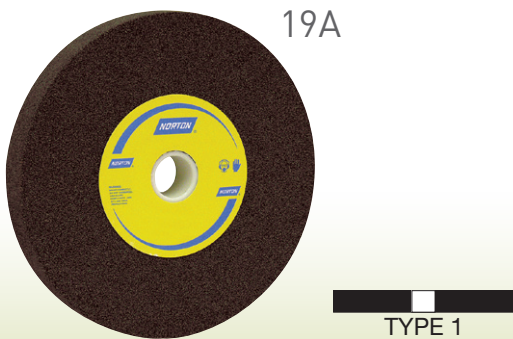
- Cool and burn free cutting
- Ideal for heat sensitive applications with light to moderate feed rates

GOOD



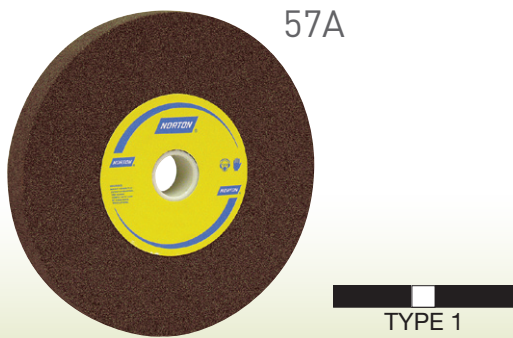
- FEATURES**
- Highly refined pink aluminium oxide abrasive
 - Tougher abrasive than pure white aluminium oxide
 - Contains a small portion of chromium oxide

- BENEFITS**
- Very versatile
 - Reduces dress frequency



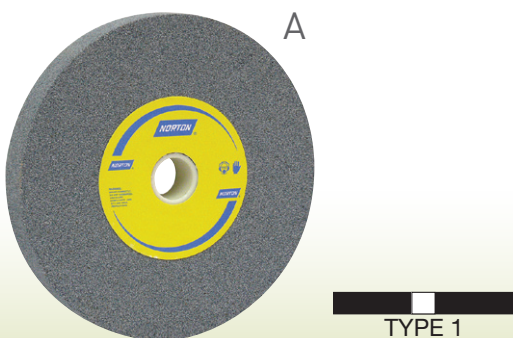
- FEATURES**
- A blend of A and 38A abrasives
 - Primarily used in saw grinding applications

- BENEFITS**
- Very versatile, For use on a wide variety of steels
 - Good yield, good removal rate
 - Good balance between cut rate and form holding ability



- FEATURES**
- Semi pure brown fused aluminium oxide abrasive
 - High durability

- BENEFITS**
- For use on all steel and steel alloys
 - Versatile, durable and free cutting
 - Economical
 - Ideal for general purpose applications



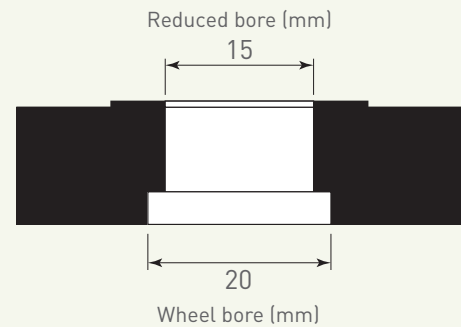
- FEATURES**
- Regular brown aluminium oxide abrasive
 - Contains 3% titanium oxide
 - Unique, self sharpening, microcrystalline structure

- BENEFITS**
- Very tough, suitable for grinding most types of steel and soft iron
 - Good cost/performance compromise
 - Hard wearing wheels for general purpose cylindrical off-hand bench and pedestal grinding applications

REDUCTION RINGS

Plastic reduction rings may be used to adapt grinding wheels to fit on a variety of spindle sizes. These rings reduce the bore hole size, allowing the wheel to be safely mounted on a spindle with a smaller diameter.

- Reduction rings should never come into contact with the flange
- Reduction wheels should not be used on wheels of thicknesses less than 6mm, nor greater than 50mm
- Always use one reduction ring on each side of the wheel when the wheel is thick enough to allow correct seating
- Never use reduction rings to reduce the hole below the minimum specified in the FEPA safety code



WHEEL BORE (mm)	REDUCED TO (mm)	REDUCTION RING
50.8	31.75	66253183462
50.8	38.1	00510097033
38.1	31.75	66253183464
TELESCOPIC BUSHES		
31.75 - 25.4 - 19.5 - 15.88 - 12.7		66253062217
25.4 - 19.05 - 12.7		66253183036

PERIPHERAL SPEED IN METRES / SECOND

WHEEL DIA (mm)	22m/s	23m/s	25m/s	28m/s	30m/s	33m/s	35m/s	40m/s	42m/s	45m/s	48m/s	50m/s	55m/s	60m/s	70m/s	80m/s
REVOLUTIONS PER MINUTE (APPROX.)																
25	16800	17600	19100	21500	22900	25000	26500	30500	32000	34500	36500	38000	42000	46000		
50	8400	8800	9500	10800	11500	12600	13400	15300	16100	17200	18300	19100	21100	23000		
80	5200	5500	6000	6800	7100	7900	8400	9500	10100	10700	11400	12000	13200	14300		
100	4200	4400	4750	5400	5700	6300	6700	7600	8100	8600	9200	9600	10600	11500		
125	3350	3500	3800	4300	4600	5050	5600	6100	6500	6900	7300	7600	8400	9200		
150	2800	2950	3200	3600	3800	4200	4450	5100	5400	5700	6100	6400	7000	7600		
180	2330	2430	2650	3000	3200	3500	3800	4250	4450	4750	5100	5300	5900	6400	7400	8500
200	2070	2160	2350	2620	2820	3100	3300	3750	3950	4250	4500	4700	5200	5600	6600	7500
230	1820	1910	2070	2320	2490	2740	2900	3320	3490	3730	4000	4150	4670	4980	5820	6600
250	1650	1720	1880	2100	2230	2500	2650	3000	3150	3400	3600	3750	4150	4500	5300	6000
300	1370	1440	1570	1750	1880	2070	2190	2500	2600	2800	3000	3150	3450	3750	4400	5000
350	1180	1240	1350	1500	1610	1780	1890	2160	2250	2400	2600	2700	2950	3250	3750	4300
400	1030	1080	1180	1320	1410	1550	1650	1880	1970	2120	2260	2350	2600	2850	3300	3750
450	900	960	1050	1170	1250	1380	1470	1680	1760	1880	2010	2090	2300	2500	2950	3350
500	830	870	940	1050	1130	1240	1320	1500	1580	1700	1810	1880	2060	2260	2650	3000
550	750	790	860	960	1030	1130	1200	1370	1440	1550	1650	1710	1910	2085		
600	690	720	780	880	940	1030	1090	1250	1320	1410	1500	1570	1750	1910		
650	640	670	720	810	870	960	1020	1160	1210	1310	1390	1450	1615	1765		
700	590	620	670	750	810	890	940	1080	1130	1210	1290	1350	1500	1640		
750	550	580	630	700	750	830	880	1000	1050	1130	1210	1260	1400	1530		
800	520	550	580	660	700	770	820	940	980	1060	1130	1170	1310	1435		
900	460	480	520	580	630	690	730	840	880	940	1000	1050	1170	1275		
1000	415	430	460	530	560	620	660	750	790	850	910	940	1050	1145		
1060	395	415	450	505	540	595	630	720	760	810	865	900	990	1080		
1100	380	400	430	490	520	570	610	690	730	780	830	870				
1200	345	360	400	440	470	520	550	630	660	710	750	780				

SAFETY ADVICE

SAFETY IN THE STORAGE & USE OF GRINDING WHEELS

Stringent safety standards are maintained throughout the manufacture of Norton Grinding Wheels. To reduce the risk of accidents further, the law requires that certain basic precautions are taken in the storage and use of abrasive wheels.

RECEIPT

On receipt, grinding wheels should be thoroughly examined to see if they show any signs of damage, such as chips, cracks or discolouration.

Damaged wheels must not be used.

HANDLING

Any mishandling that results in the wheel being subjected to any shock loading can damage all grinding wheels. This can occur if the wheel is inadvertently dropped, knocked over or banged against any other object. This is equally true if the wheel is secured on a pallet, which has been dropped heavily from a forklift truck.

Any grinding wheel subjected to such mishandling should be carefully examined for signs of damage.

If in any doubt – do not use.

STORAGE

Small wheels up to 80mm diameter, together with cones, plugs, mounted points and wheels may be stored in suitable bins, drawers or boxes. Type 02 cylinder wheels, type 06 straight cup wheels, type 12 dish wheels and type 13 saucer wheels should normally be stacked on flat sides with cushioning material between them. Thick rim and hard grade cylinder and straight cup wheels may be stored on their periphery as for plain wheels. Soft grade, straight cup wheels, and all type 11 taper cup wheels, should be stored base to base and rim to rim, to prevent chipping of edges and cracking of walls. Thin plain wheels, such as cutting-off wheels or saw sharpening wheels should be stacked on a flat surface of steel, or similar rigid material. Other plain or shaped wheels of appreciable thickness, are best supported on their periphery in racks. The racks should provide cushioned, two point, cradle support to prevent the wheels from rolling.

STORAGE CONDITIONS

During storage, grinding wheels must not be subjected to:

- Exposure to humidity, water or other liquids
- Freezing temperatures
- Any temperature low enough to cause the formation of condensation on the wheels when moving from storage to an area of high temperature

SHELF LIFE OF RESINOID & VITRIFIED BONDED WHEELS

The outer surfaces of certain organically bonded wheels may be affected by oxidation if they are stored for long periods. These types of wheel should not be stored for more than three years and proper stock control should ensure that older wheels are used first. In use, a three year old Resinoid product will act considerably softer than a brand new wheel (wheel will wear away more quickly). The glass bonding system used in vitrified wheels is very inert and generally only attacked by certain acids. Cold temperatures can result in a vitrified wheel cracking if wheels are put away wet and are subjected to freezing temperatures. It must be remembered that the longer a product is in storage the chances of it becoming damaged increases.

Provided vitrified wheels are stored correctly, thoroughly examined and mounted correctly they will last for many years.

RING TEST

The ring test depends upon the damping characteristics of a cracked wheel to alter the sound emitted when it is lightly tapped. The test is applicable only to vitrified bonded wheels. To perform the ring test; support the wheel gently with a finger through the bore section. Using a light non-metallic implement (a file handle is ideal), gently tap the wheel about 45° each side of the vertical centre line. Rotate the wheel 45° and repeat the test.

The sound and undamaged wheel will omit a clear tone. If cracked, there will be a dead dull sound – not a clear ring – and the wheel should NOT be used. The ring test should be carried out in a place where the ring can easily be heard.

SAFE WORKING PRACTICES

PERSONAL PROTECTION

Safety goggles, ear defenders, safety gloves, dust masks and, if conditions are severe, additional face protection. Leather aprons and safety shoes must be worn.



Mouth Protection



Wear Gloves



Eye Protection



Ear Protection



Read Instructions



Damaged Wheel
- Do not use



Dry



Wet

TRAINING OF OPERATORS

Grinding operators should be trained in the safe use of each machine they operate.

SPEEDS

No abrasive wheel should be operated at a speed in excess of the maximum permissible speed marked on the wheel in RPM when the wheel is new and full size. It is permissible, however, to increase the spindle speed of the machine beyond the RPM stated on the wheel provided the increase is in proportion to the reduction in diameter and that the original peripheral speed is not exceeded (quoted on the wheel in metres/sec). In high production areas it is now normal for machines to have constant peripheral speed spindles. This is an electronic device that automatically increases the spindle speed of the machine as the wheel diameter wears down and prevents most of the reduction in wheel performance that is experienced when the wheel becomes smaller.

COOLANTS

The strength of resin bonded grinding wheels can be reduced by coolants. The concentration and alkalinity of coolants should be regularly checked and a pH value of 8 should not be exceeded. Prolonged immersion of a stationary wheel in coolant can produce an out of balance condition. Coolant should be shut off before stopping a wet grinding wheel, and the wheel allowed to run free until all the coolant has been spun out.

WORK RESTS

Work rests should be kept adjusted as close as possible (gap between wheel and work rest should not exceed 3mm) to the wheel and maintained in good condition.

TRUING & DRESSING

Re-dressing of wheels that have become malformed and out of truth in off-hand operations must only be performed by a competent person. If an out of balance condition, due to the wheel wearing excessively out-of-round, cannot be corrected by truing, the wheel should be removed from the machine.

Wheels should be dressed regularly to avoid loading

SIDE GRINDING

Side grinding should only be performed with wheels designed for this purpose (straight cups etc.). Grinding on the flat sides of wheels designed for peripheral grinding may be dangerous and cause a wheel breakage. This does not preclude their use for certain precision applications such as shoulder and form grinding, where it is recognised that a limited amount of side grinding is performed; however, in these operations the operator has control of the pressure through the hand wheels of the machine whereas with bench grinding and off-hand machines the pressure is uncontrolled. Extreme caution should be exercised not to use excessive pressure. As a general guide, do not use a straight wheel which has a thickness of less than 10% of the wheel diameter for side grinding.

ORGANIC CUTTING-OFF WHEELS

'Non-reinforced' cutting-off wheels should never be used:

- On a portable grinding machine
- On any machine where the workpiece is fed into the wheel by hand

Cutting-off wheels should only be mounted on machines designed for their use. Cutting-off wheels should be inspected for warping before use. Warped wheels should not be used. When grinding, twisting or the exertion of any pressure on the side of the wheel should be avoided. Workpieces should be rigidly supported and firmly clamped wherever possible.

STOPPING WHEELS

Wheels should not be brought to rest by applying pressure to the periphery or face of the wheel.

ALUMINIUM OXIDE

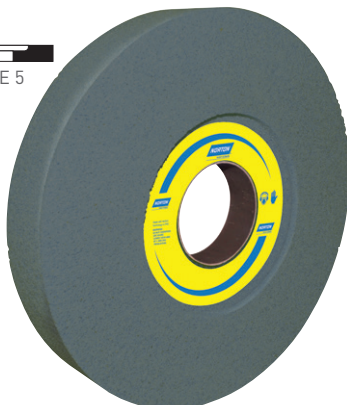
TYPE 1



- Norton general purpose wheels will grind mild to medium hard steels.
Wheel colour - Brown or Blue/Grey
- 150, 180 and 200mm diameter general purpose grinding wheels come with a multibush bore reducing bush to allow the wheel to be mounted on any model machine. Other wheels can be bushed to the bore size on request.
- For hardened tool steels use a 38A grade wheel.
- Always use the machine guard as supplied by the manufacturer. Alteration or removal may result in an oversized wheel being mounted and run at a dangerous speed.
- Check the machine speed against the maximum RPM marked on the wheel.
DO NOT OVERSPEED!



TYPE 5



SIZE mm	MAX RPM	GRADE	PRODUCT CODE	LEGACY CODE	BARCODE
150 x 20.0 x 31.75	4200	A36PVBE	66253130539	-	9415900002039
		A46MVB	66253130865	-	9415900002404
		A60MVB	66253130583	-	9415900002053
150 x 25.0 x 31.75	4200	A36PVS	66253120540	-	9415900002411
		A46MVS	66253130541	-	9415900002428
		A60MVS	66253033835	-	9415900002046
200 x 20.0 x 31.75	3150	A36PVS	66253133176	-	9310357281955
		A46MVS	66253130867	-	9310357281962
		A60MVS	66253150067	-	9310357281979
200 x 25.0 x 31.75	3150	A24QVBE	66253130137	BV325929	9310357708810
		A36PVS	66253130429	-	9415900002435
		A46MVS	66253130430	-	9415900002442
		A60MVS	66253130582	-	9310357702603
		A80MVS	66253130584	-	9310357281986
200 x 40.0 x 31.75	3150	A36PVBE	66253126027	BV188575	9310357702467
		A46MVB	66253125556	BV188583	9310357702535
		A60MVB	66253124748	BV188591	9310357702627
250 x 25.0 x 31.75	2520	A36PV	66253151015	BV374776	9310357251361
		A46MVB	66235125574	BV188605	9310357702542
		A60MVB	66253127367	BV188648	9310357702634
250 x 40.0 x 38.10	2520	A30QVBE	66253124247	BV188107	9310357702429
		A36PVBE	66253131142	BV384267	9310357259503
		A46MVB	66253124246	BV188115	9310357702559
		A60MVB	66235124245	BV188131	9310357702641
250 x 50 x 38.10	2520	A36PVBE	66253127130	BV325937	9310357708827
		A46MVB	66253124747	BV199702	9310357704690
300 x 40.0 x 38.10	2100	A30QVBE	66253124244	BV188753	9310357702436
		A46MVB	66253124243	BV188761	9310357702566
		A60MVB	66253127788	BV325953	9310357708841
300 x 50.0 x 50.80	2100	A24QVBE	66253124231	BV188158	9310357702405
		A36QVBE	66253124230	BV188166	9310357702474
		A46MVB	66253124229	BV188174	9310357703853
		A60MVB	66253124233	BV188182	9310357702658
350 x 50.0 x 50.80	1800	A24QVBE	66253124242	BV188190	9310357702412
		A36QVBE	66253124743	BV188212	9310357702481
		A46MVB	66253124241	BV188220	9310357702573
		A60MVB	66253126026	BV188239	9310357702665
400 x 50.0 x 50.80	1570	A24QVBE	66253124576	BV199931	9310357702702
		A36QVBE	66253126465	BV325961	9310357708858
		A46MVB	66253124575	BV199958	9310357702740
400 x 80.0 x 50.80	1570	A24QVBE	66253129269	BV325996	9310357708872
		A46MVB	66253130381	BV374784	9310357251378
450 x 50.0 x 50.80	1400	A24QVBE	66253124742	BV199974	9310357702696
		A36QVBE	66253126025	BV326011	9310357708889
		A46MVB	66253124240	BV200026	9310357705574
450 x 80.0 x 50.80	1400	A24QVBE	66253124579	BV200034	9310357708896
		A36QVBE	66253127020	BV326038	9310357708902
		A46MVB	66253131985	BV374792	9310357251385
150 x 40 x 12.7 Rec 1/S	4200	CLASSIC 46	66253158901	BV388645	9310357265993
200 x 40 x 15.88 Rec 1/S	4200	CLASSIC 46	66253165983	BV388653	9310357266006
200 x 40.0 x 25.4 Rec 1/S 105 x 18.0	3150	A46MVB	66253124248	BV188559	9310357704485
		A60MVB	66253125553	BV188567	9310357702610

SILICON CARBIDE - BLACK

TYPE 1



SIZE mm	MAX RPM	GRADE	PRODUCT CODE	LEGACY CODE	BARCODE
150 x 25.0 x 25.4	4200	37C24PVK	69083147529	BV388505	9310357265580
200 x 25.0 x 25.4	3150	37C24PVK	69083147528	BV388513	9310357265597
300 x 50.0 x 50.8	2100	37C24RV	66253131369	BV374911	9310357251514
350 x 50.0 x 50.8	1800	37C24RV	66253130225	BV374938	9310357251521
450 x 50.0 x 50.8	1400	37C24RV	66253131042	BV374946	9310357251538

SILICON CARBIDE - GREEN

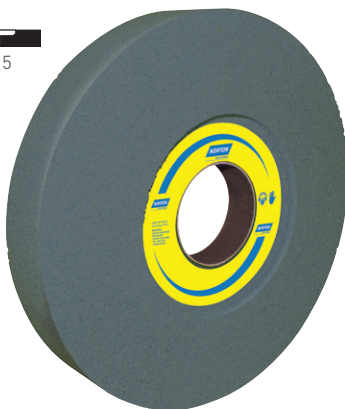
TYPE 1



75 x 25.0 x 19.05	8280	39C80KVK	66253129612	BV325651	9310357708032
150 x 13.0 x 31.75	4200	39C60JVK	66253126485	BV204072	9310357704492
		39C100JVK	66253127246	BV200093	9310357704508
150 x 20.0 x 31.75	4200	39C60JVK	69083141538	BV200115	9310357281801
		39C100JVK	66243549084	BV204099	9310357281818
150 x 25.0 x 25.4	4200	39C80KVK	66253129367	BV204110	9310357703518
		39C120JVK	66253130461	BV375152	9310357251415
150 x 25.0 x 31.75	4200	39C60JVK	66253130428	BV200123	9310357281771
		39C100JVK	66243545475	BV200131	9310357281788
		39C220JVK	66253062974	-	9310357281795
180 x 13.0 x 31.75	3500	39C60JVK	66253124223	BV200182	9310357708087
		39C80JVK	66253130139	BV325716	9310357708094
200 x 25.0 x 25.4	3150	39C60KVKPL	66243590174	BV131873	9310357703495
		39C80JVK	66253124224	BV204137	9310357703525
200 x 25.0 x 31.75	3150	39C60JVK	66243545476	BV200190	9310357281733
		39C100JVK	66253167493	BV200204	9310357281740
		39C120JVK	66243589535	BV325724	9310357281757
250 x 25.0 x 31.7	2520	39C60JVK	66253173897	BV399175	
350 x 50.0 x 50.8	1800	39C60JVK	66253170818	BV374903	9310357251507

- Green silicon carbide wheels are particularly suited for grinding tungsten carbide

TYPE 5



200 x 40.0 x 25.4 Rec 1/S 105 x 20.0	3150	39C60JVK	66253124572	BV200212	9310357703488
		39C80JVK	66253124574	BV204234	9310357703501
		39C100JVK	66253124573	BV200220	9310357703440

TYPE 11



100/76 x 40.0 x 31.75	6300	39C60JVK	66253124584	BV201855	9310357705543
150/96 x 63.0 x 31.75	4200	39C36/2JVK	69083145564	BV384755	9310357260110

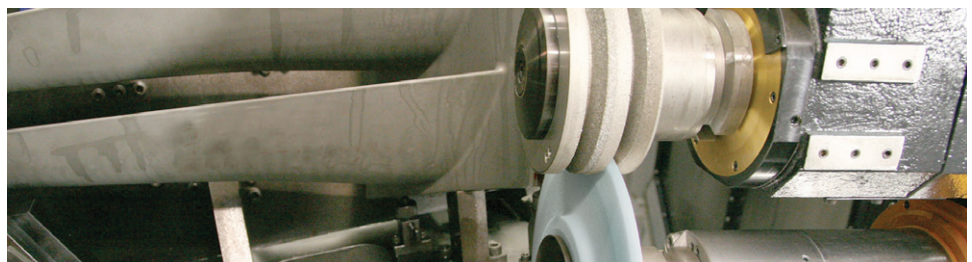
ALUMINIUM OXIDE



- Norton 38A toolroom wheels are manufactured using fast cutting White Aluminium Oxide. (White in colour).
- These wheels are designed to grind hardened tool steels.
- 38A abrasive is more friable than brown aluminium oxide used in general purpose grinding wheels.
- It maintains its cutting ability by self fracturing. As the grain fractures and breaks down new cutting points are exposed.
- This increased cutting ability also causes the wheel to wear faster than a general purpose grinding wheel.

SIZE mm	MAX RPM	GRADE	PRODUCT CODE	LEGACY CODE	BARCODE
100 x 13.0 x 19.05	6300	38A60JVBE	66253124736	BV200506	9310357706069
150 x 6.0 x 31.75	4200	38A60JVBE	66235124200	BV200514	9310357703228
150 x 13.0 x 31.75	4200	38A46KVBE	66253125535	BV068519	9310357703129
		38A60KVBE	66253124203	BV068543	9310357703310
		38A80KVBE	66253124204	BV200573	9310357703365
		38A120KVBE	66253124854	BV203440	9310357702948
150 x 20.0 x 31.75	4200	38A60JVBE	66253126461	BV326224	9310357706847
		38A120KVBE	66253167210	BV375039	9310357351637
150 x 25.0 x 31.75	4200	38A46KVBE	66253166496	BV384348	9310357259589
		38A46MVBE	66235124205	BV203459	9310357703150
		38A60JVBE	66253124737	BV200611	9310357703211
		38A80KVBE	66253126462	BV326232	9310357706854
		38A120KVBE	66253127244	BV326240	9310357706861
180 x 13.0 x 31.75	3500	38A46JVBE	66253124206	BV200654	9310357703082
		38A60JVBE	66253124207	BV200670	9310357703273
200 x 6.0 x 31.75	3150	38A60JVBE	66253127434	BV326305	9310357706915
200 x 13.0 x 31.75	3150	38A46JVBE	66253124758	BV200743	9310357703068
		38A46KVBE	66253151431	BV384364	9310357259602
		38A60JVBE	66253124226	BV203475	9310357704751
		38A60KVBE	66253153481	BV384372	9310357259619
		38A80KVBE	66253126464	BV326313	9310357706922
200 x 20.0 x 31.75	3150	38A46JVBE	66253124237	BV200751	9310357703075
		38A60KVBE	66253125044	BV259942	9310357706076
200 x 20.0 x 50.8	3150	38A46JVBE	66253124252	BV200786	9310357703020
200 x 25.0 x 31.75	3150	38A46KVBE	66253124227	BV114847	9310357703136
		38A60KVBE	66253124228	BV114863	9310357703327
		38A80KVBE	66253126467	BV326372	9310357706977
		38A120KVBE	66253126864	BV326380	9310357706984
250 x 20.0 x 76.2	2520	38A46JVBE	66253127092	BV200794	9310357702887
250 x 25.0 x 50.8	2520	38A46JVBE	66253126880	BV326453	9310357707028
250 x 25.0 x 76.2	2520	38A46JVBE	66253124208	BV200808	9310357703037
		38A60JVBE	66253124738	BV203556	9310357705802
250 x 40 x 31.75	2520	38A46KVBE	66253190221	BV399183	
300 x 25.0 x 127.0	2100	38A46JVBE	66253124209	BV203564	9310357703099
		38A60JVBE	66253124210	BV200816	9310357707073
300 x 32.0 x 76.2	2100	38A46JVW	66253151212	BV375195	9310357251750
350 x 25.0 x 127.0	1800	38A46JVBE	66253124546	BV200921	9310357707080
		38A60K8VBE	66235281525	BV399213	-
350 x 40.0 x 127.0	1800	38A46J6VBE	66253281524	BV399205	-
350 x 50.0 x 127.0	1800	38A46H12VBEP	66253125536	BV326615	9310357707134
400 x 50.0 x 127.0	1570	38A46JVBE	66253025284	BV375217	9310357251774
		19A60LVBE	66253124234	BV114871	9310357707158
450 x 32.0 x 127.0	1400	53A54/3JVBE	66253124238	BV200956	9310357707189

Norton offers an extensive range of complimentary diamond dressing solutions. for more information See page 38



ALUMINIUM OXIDE

TYPE 5



SIZE mm	MAX RPM	GRADE	PRODUCT CODE	LEGACY CODE	BARCODE
180 x 25.0 x 31.75 Rec 1/S 90 x 12.0	3500	38A46JVBE	66253124214	BV200697	9310357705840
		38A60JVBE	66253124215	BV200719	9310357704621
200 x 40.0 x 31.7 Rec 1/S 105 x 18.0	3150	39A46MVE	66253156423	BV326585	9310357707233
		38A60MVE	66253155578	BV326593	9310357707240
300 x 40.0 x 127.0 Rec 1/S 200 x 12.0	2100	38A46JVBE	66253124216	BV200832	9310357707257
		38A60JVBE	66253124547	BV203572	9310357707264
350 x 40.0 x 127.0 Rec 1/S 200 x 12.0	1800	38A46JVBE	66253124217	BV203602	9310357705789
		38A46H12VBEP	66253126040	BV326607	9310357707271
		38A60JVBE	66253124218	BV200948	9310357707288

TYPE 7



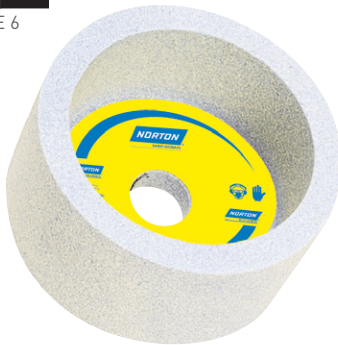
300 x 50.0 x 76.2 Rec 2/S 150 x 10.0	2100	53A30IVBE	66253130134	BV068462	9310357703332
		53A46H12VBEP	66253124581	BV200875	9310357703325

TYPE 12



100 x 13 x 19.05	6300	38A60KVBE	66253124222	BV200468	9310357703303
150 x 13.0 x 31.75	4200	38A60JVBE	66253124548	BV200484	9310357703266

TYPE 6



100 x 50.0 x 31.75	6300	38A46JVBE	66253124219	BV200271	9310357703044
		38A60JVBE	66253124220	BV200298	9310357703242
		38A60KVBE	66253132503	BV384410	9310357259657
		38A80JVBE	66235124741	BV203696	9310357703341
125 x 40.0 x 31.75	5040	38A46JVBE	66253124221	BV200328	9310357702993
		38A60JVBE	66253125577	BV326623	9310357707295
125 x 63.0 x 31.75	5040	38A46F12VBEP	66253124335	BV200344	9310357704126
150 x 50.0 x 31.75	4200	38A46F12VBEP	69083159868	BV203912	9310357702979
		38A46JVBE	66253125554	BV200352	9310357703006
		38A60JVBE	66253126863	BV326631	9310357707301
150 x 60.0 x 31.75	4200	38A46F12VBEP	66253125549	BV326658	9310357707318
165 x 80.0 x 31.75	3820	38A46FVBEP	66253165107	BV380814	9310357256601
180 x 80.0 x 82.60	3500	38A46F12VBEP	66253124341	BV200360	9310357702955
250 x 100.0 x 50.8	2520	38A36HVBE	66253126095	BV115428	9310357708568

ALUMINIUM OXIDE



SIZE mm	MAX RPM	GRADE	PRODUCT CODE	LEGACY CODE	BARCODE
80/57 x 32.0 x 19.05	7870	38A60KVBE	66253124853	BV115215	9310357707691
100/76 x 40.0 x 31.75	6300	38A46JVBE	66253124235	BV200395	9310357702986
		38A46KVBE	66253124763	BV203939	9310357703112
		38A60KVBE	66253124764	BV203947	9310357703297
		88A46/54KV	66253130714	BV375292	9310357251842
125/100 x 63.0 x 31.75	5040	38A46F12VBEP	66253127147	BV326666	9310357707707
150/114 x 50.0 x 31.75	4200	38A46KVBE	66253126865	BV259977	9310357706106
		88A46/54KVBE	66253183140	BV375322	9310357251873

SEGMENTS

TYPE SB



65.0 x 25.0 x 100.0	-	38A46F12VBEP	66253183084	BV201480	9310357704119
		88A46F12VBEP	66253183141	BV375349	9310357251897
		37C36IVK	66253183085	BV201499	9310357702924
104.0 x 38.0 x 150.0	-	38A24/1H8VBE	66253029168	BV068500	9310357708162
		88A36H12VBEP	66253183142	BV375365	9310357251910
		38A46F12VBEP	66243598087	BV201502	9310357702962
		3SG46F12VHP	66253173270	BV388521	9310357265603
117.5 x 44.5 x 200.0	-	3SG36F12VHP	66253067164	BV388548	9310357265610

TYPE SE



50.0 x 16.0 x 90.0	-	38A46F12VBEP	66253183083	BV122580	9310357708179
		37C36IVK	66253183086	BV202053	9310357702917

HAND FINISHING STICKS



10.0 X 150.0 Triangular	-	A150PV	66253183087	BV204803	9310357709152
		A220PV	66253183088	BV204846	9310357709169

JOINTING STONES



15.0 x 16.0 x 160.0	-	39C60KVK	66253183144	BV375772	-
		39C100	66253183145	BV375780	-

ALUMINIUM OXIDE
CENTRELESS WHEEL

TYPE 1



SIZE mm	MAX RPM	GRADE	PRODUCT CODE	LEGACY CODE	BARCODE
500 x 200.0 x 304.8	1260	57A60MV127	66253127095	BV201057	9310357708018
600 x 200.0 x 304.0	1050	57A60MV127	66253125578	BV201103	9310357708025

TOOLROOM CUTTING-OFF
WHEEL, PREMIUM RANGE
NON REINFORCED

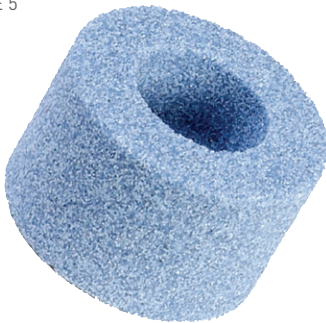
TYPE 1



100 x 0.8 x 12.7	9550	57A100PB25	66253183046	BN201782	-
100 x 1.6 x 12.7	9550	57A60PB25	69936625723	BN201790	9310357702238
150 x 1.6 x 31.75	7640	57A416PB25	66243453175	BN201804	9310357702191
		57A60PB25	66243452897	BN201812	9310357702221
150 x 3.2 x 31.75	7200	A460B	66253183053	BN375462	9310357251996
180 x 1.6 x 31.75	6530	57A60PB25	66253056375	BN201820	9310357702207
200 x 1.6 x 31.75	5730	57A46PB25	66243453176	BN201839	9310357704553
250 x 1.6 x 25.4	4585	57A46PB25	66243427989	BN201847	9310357702214
250 x 1.6 x 79.38	4585	A60KB	66253183054	BN375543	9310357252078

HIGH PERFORMANCE
INTERNAL WHEEL

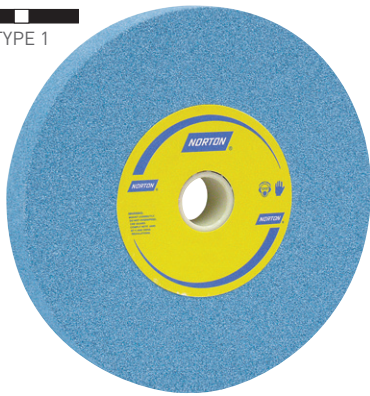
TYPE 5



40.0 x 25.0 x 12.7	21,645	5TG120KVFL	66243416589	BV336168	9310357707981
50.0 x 25.0 x 12.7	16,495	5TG120KVFL	66243416591	BV336184	9310357707998
20.0 x 20.0 x 6.35	41,520	5TG120KVFL	66243416574	BV336120	9310357707950
25.0 X 25.0 X 6.35	31,300	3SG60KVS	66243427751	BV399248	-
80.0 X 40.0 X 25.4	10,300	5TG120KVFL	66253183160	BV399256	-

SEEDED GEL - SG

TYPE 1



- Seeded Gel or SG is Norton's premier abrasive for the grinding of very hard metals such as high speed steel and hardened die steels.
- There are different concentrations to suit a range of applications
5SG = 50% SG abrasive content
3SG = 30% SG abrasive content
SGB = 10% SG abrasive content
- SG wheels are best suited to longer run production and fast stock removal rates metal damage due to heat build up.
- SG wheels can be custom made to suit specific applications. For further information check with your representative or contact the Norton sales office.

SIZE mm	MAX RPM	GRADE	PRODUCT CODE	LEGACY CODE	BARCODE
180 x 6.0 x 31.75	3500	SGB80KVH	66253153484	BV328081	9310357707363
180 x 13.0 x 31.75	3500	3SG46JVH	66253152016	BV297240	9310357707370
		3SG60JVH	66253173825	BV297259	9310357707387
		SGB46JVH	66253152849	BV328103	9310357707394
200 x 13.0 x 31.75	3150	SGB46JVH	66253152022	BV328162	9310357707424
		3SG46JVH	69083147521	BV388556	9310357265627
		3SG60JVH	69083147522	BV388564	9310357265634
200 x 20.0 x 31.75	3150	3SG46JVH	69083147523	BV388572	9310357265641
		3SG60JVH	69083147524	BV388580	9310357265658
		SGB46JVH	66253152010	BV328189	9310357707448
		SGB60JVH	66253153058	BV328197	9310357707455
250 x 25.0 x 76.2	2520	3SG46JVH	66253152015	BV297267	9310357707486
		3SG60JVH	66253155349	BV297275	9310357707493
		SGB46JVH	66253152020	BV328227	9310357707509
300 x 25.0 x 127.0	2100	3SG46JVH	66253153782	BV297283	9310357707523
		3SG60JVH	66253152850	BV297291	9310357707530
		SGB46JVH	66253152018	BV328243	9310357707547
350 x 25.0 x 127.0	1800	3SG54JVH	66253152014	BV297305	9310357707578
		SGB46JVH	66253153486	BV328286	9310357707585
350 x 40.0 x 127.0	1800	SGB46JVS	66243548390	BV399221	9310357268574
400 x 50.0 x 127.0	1570	3SG46GVHP	69083147525	BV388599	9310357265665

TYPE 5



180 x 25.0 x 31.75 Rec 1/S 90.0 x 12.0	3500	SGB60JVH	66253153740	BV328154	9310357707615
300 x 40.0 x 127.0 Rec 1/S 200.0 x 12.0	2100	SGB46JVH	66253153175	BV328308	9310357707622
350 x 40.0 x 127.0 Rec 1/S 200.0 x 12.0	1800	SGB60JVH	66253152009	BV328332	9310357707653
		SGB46JVH	66253152017	BV328324	9310357707646
		3SG46GVHP	66253166833	BV328720	9310357260080

TYPE 7



300 x 50.0 x 76.2 Rec 2/S	2100	3SG46GVHP	66253166832	BV328739	9310357260097
		SGB46/2H12VSP	66253153176	BV328282	9310357709596
350 x 50.0 x 127.0 Rec 2/S	1800	3SG46GVHP	69083156012	BV328747	9310357260103
		SGB60J8VS	66253168153	BV	9310357707684

SEEDED GEL - SG



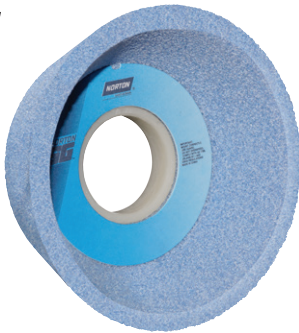
TYPE 6



SIZE mm	MAX RPM	GRADE	PRODUCT CODE	LEGACY CODE	BARCODE
125 x 63.0 x 31.75	5040	SGB60KVH	61463679258	BV399264	9310357707660
150 x 63.0 x 31.75	4200	SGB54FVHP	66253168403	BV385786	9310357261520
180 x 80.0 x 82.6	3500	SGB54FVHP	69083147526	BV388602	9310357265672



TYPE 11



100/76 x 40.0 x 31.75	6300	3SG46JVH	66253152013	BV297313	9310357707769
--------------------------	------	----------	-------------	----------	---------------



TYPE 12



150 x 13.0 x 31.75	4200	SGB60KVH	66253152008	BV328472	9310357707837
--------------------	------	----------	-------------	----------	---------------



STRAIGHT WHEELS



SIZE mm	MAX RPM	GRADE	PRODUCT CODE	LEGACY CODE	BARCODE
250 x 6.0 x 31.75	2520	19A46MVBE	66253125698	BV201111	9310357702801
250 x 10.0 x 31.75	2520	19A46MVBE	66253125699	BV201170	9310357705536
250 x 13.0 x 31.75	2520	19A46MVBE	66253125700	BV336000	9310357708391
250 x 16.0 x 31.75	2520	19A46MVBE	66253126104	BV201227	9310357702818
250 x 20.0 x 31.75	2520	19A46MVBE	66253127325	BV201243	9310357704720
300 x 10.0 x 31.75	2100	19A46MVBE	66253126032	BV201359	9310357708414
300 x 13.0 x 31.75	2100	19A46MVBE	66253127802	BV201383	9310357702832
300 x 16.0 x 31.75	2100	19A46MVBE	66253126041	BV201405	9310357702825
300 x 19.0 x 31.75	2100	19A46MVBE	66253129267	BV201409	9310357704614
300 x 20.0 x 31.75	2100	19A46MVBE	66253126033	BV201421	9310357702764
300 x 25.0 x 31.75	2100	19A46MVBE	66253125697	BV212059	9310357702849

ALUMINIUM OXIDE FOR AUTOMATIC SAW GULLETTING MACHINES



250 x 13.0 x 31.75	2520	38A46MVBE	66253129849	BV201219	9310357708452
300 x 10.0 x 31.75	2100	38A46MVBE	66253126035	BV201375	9310357708490
300 x 13.0 x 31.75	2100	38A46MVBE	66253126036	BV201391	9310357708506
300 x 16.0 x 31.75	2100	38A46MVBE	66253129300	BV201413	9310357708513
		STELLITE	66253166499	BV384291	9310357259534
300 x 20.0 x 31.75	2100	38A46MVBE	66253126037	BV201448	9310357708537
		STELLITE	66253159666	BV383260	9310357258285
300 x 22.0 x 31.75	2100	38A46MVBE	66253125702	BV336048	9310357708544

FOR MOULDER & CHIPPER KNIVES



225 x 5.0 x 31.75	2830	38A46JVBE	66253130732	BV375691	9310357254065
225 x 5.0 x 60.0	2830	38A60JVBE	66253132504	BV375667	9310357254034
		38A100IVBE	66253133040	BV375705	9310357254072
		3SG60JVH	66253133362	BV375713	9310357254089
		38A46JVBE	66253158448	BV375756	9310357254119

ALUMINIUM OXIDE - PINK FOR AUTOMATIC SAW GULLETTING MACHINES



150 x 2.0 x 32.0	4200	25A80MV	66253183146	BV375802	9310357252221
150 x 2.5 x 32.0	4200	25A80MV	66253183147	BV375810	9310357252238
150 x 3.0 x 32.0	4200	25A80MV	66253168401	BV375829	9310357252245
150 x 4.0 x 32.0	4200	25A80MV	66253169638	BV375845	9310357252269
150 x 5.0 x 32.0	4200	25A80MV	66253165090	BV380695	9310357256526

ALUMINIUM OXIDE CYLINDER WHEELS



TYPE 2



SIZE mm	MAX RPM	GRADE	PRODUCT CODE	LEGACY CODE	BARCODE
200 x 100.0 x 160.0	3150	SGB46HVHP	66253063882	BV388610	9310357265689
250 x 125.0 x 200.0	2520	SGB46HVHP	66243549210	BV388629	9310357265696

ALUMINIUM OXIDE - PINK FOR CHAIN SAW RE-SHARPENING



TYPE 1



140 x 4.7 x 12.0	4500	25A54/IKV F Face	66253151172	BV376051	9310357252450
145 x 3.2 x 22.0	4450	25A60MV F Face	66253183148	BV376086	9310357252474
145 x 4.7 x 22.0	4450	25A60MV F Face	66253183149	BV376094	9310357252481
145 x 6.0 x 22.0	4450	25A60MV F Face	66253183150	BV376108	9310357252498

STRAIGHT CUP WHEELS



TYPE 6



125 x 63.0 x 31.75 13.0 Rim & 16.0 Back	5040	38A46F12VBEP	66253124335	BV200344	9310357704126
150 x 50.0 x 31.75 13.0 Rim & 16.0 Back	4200	38A46F12VBEP	69083159868	BV203912	9310357702979
150 x 63.0 x 31.75 13.0 Rim & Back	4200	38A46F12VBEP	66253125549	BV326658	9310357707318
		SGB54FVHP	66253168403	BV385786	9310357261520
165 x 80.0 x 31.75 16.0 Rim & 20.0 Back	3820	38A46F12VBEP	66253165107	BV380814	9310357256601
180 x 80.0 x 82.6 16.0 Rim & 20.0 Back	3500	38A46F12VBEP	66253124341	BV200360	9310357702955
		SGB54FVHP	69083147526	BV388602	9310357265672
250 x 100.0 x 50.8 25.0 Rim & Back	2520	38A36HVBE	66253126095	BV115428	9310357708568
		SGB46FVHP	69083147527	BV388637	9310357265702

JOINTING STONES



300 x 13.0 x 31.75	-	19A46MVBE	66253127802	BV201383	9310357702832
		19A46MVBE	66253126041	BV201405	9310357702825

DRESSING STICKS



SIZE width x thick x length	MIN ORDER QTY	GRADE	PRODUCT CODE	LEGACY CODE	BARCODE
4.76 x 13.0 x 80.0	1	NORBIDE	61463610148	BV202045	9310357704102
13.0 x 13.0 x 150.0	5	37C24SVK	66253183090	BV208833	9310357704324
20.0 x 20.0 x 150.0	5	37C24SVK	66253183091	BV208841	9310357704317
25.0 x 25.0 x 150.0	5	37C24SVK	66253183092	BV208868	9310357704300

DRESSING WHEELS



50.0 x 25.0 x 9.53	5	37C24SVK (Bamford)	66253183151	BV376124	9310357252504
100.0 x 40.0 x 22.0	1	37C24SVK (Metcalf)	66253183152	BV376132	9310357252511
150.0 x 50.0 x 50.8	1	17A24Q4B	66253183080	BN380733	910357256564

DRESSING STICKS FOR DIAMOND CBN WHEELS



20.0 x 20.0 x 150.0	5	38A220GVBE	66253183159	BV380741	9310357256571
25.0 x 25.0 x 150.0	5	38A220GVBE	66253183143	BV375764	9310357252177
10.0 x 22.0 x 80.0	10	38A220HVBE	66253183093	BV208884	9310357704355

DIAMOND DRESSER SINGLE POINT NORTON PREMIUM



SIZE mm	MIN ORDER QTY	CARAT SIZE	PRODUCT CODE	LEGACY CODE	BARCODE
12.7 x 150.0	1	0.75	7958784003	BD211923	9310357702016
		1.00	7958784004	BD211931	9310357702023

SINGLE POINT ECONOMAX



12.7 x 150.0	1	0.50	7958784000	BD182664	9310357702054
		0.75	7958784001	BD182672	9310357704638
		1.00	7958784002	BD182699	9310357234593
115mm Knurled handle T bar	1	-	7958784005	BD376140	9310357252528

GRINDING WHEEL TELESCOPIC BUSHES



SIZE O.D. x I.D. x Width	MIN ORDER QTY	GRADE	PRODUCT CODE	LEGACY CODE	BARCODE
25.4 x 12.7 x 19.05	1	TSB02	66253183036	BM149977	9310357709480
31.75 x 25.4/19.5/15.88/12.7 x 19.05	1	TSB04	66253062217	BM150347	9310357254126

STRAIGHT CUP WHEEL CYLINDER HEAD SURFACING



TYPE 6



- All wheels have 25mm rim and back and are strapped and waterproofed

SIZE mm	MAX RPM	GRADE/GRIT	PRODUCT CODE	LEGACY CODE	BARCODE
300 x 100.0 x 214.3	2100	38A36IB5/ AA1993	66253183038	BN201456	9310357702375
300 x 100.0 x 216.0	2100	37C30JBS/ AA1994	662353183039	BN201464	9310357708346

FLARING CUP WHEEL



TYPE 11



150/96 x 63.0 x 31.75 ME4685	4200	39C36JVK	69083145564	BV384755	9310357260110
---------------------------------	------	----------	-------------	----------	---------------

SEGMENTS

TYPE SB



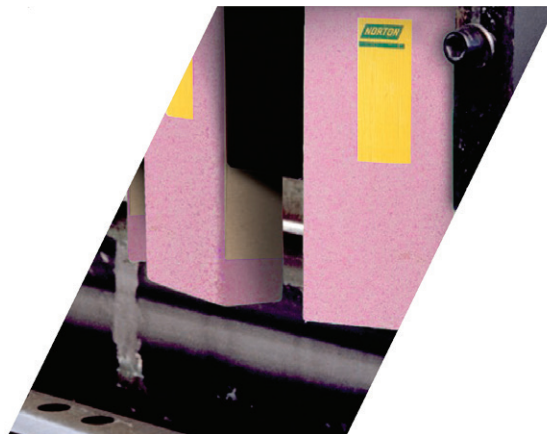
- To suit BERCO and REPCO grinders

SIZE mm	MIN ORDER QTY	GRADE	PRODUCT CODE	LEGACY CODE	BARCODE
65.0 x 25.0 x 100.0 AME578	10	38A46F12VBEP	66253183084	BV201480	9310357704119
		88A46F12VBEP	66253183085	BV201499	9310357251897
		37C36IVK	66253183141	BV375349	9310357702924

TYPE SE

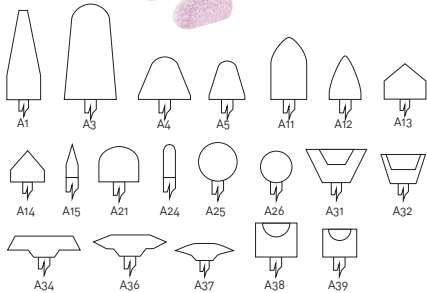


50.0 x 16.0 x 90.0 AME9605	10	38A46F12VBEP	66253183083	BV122580	9310357708179
		37C36IVK	66253183086	BV202053	9310357702917



ALUMINIUM OXIDE FOR FERROUS METALS

A SHAPE



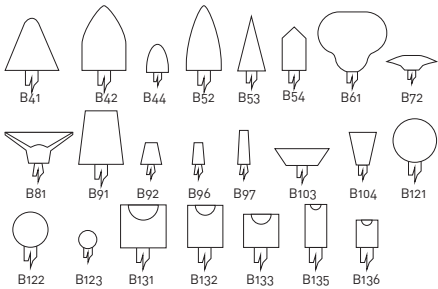
- Minimum order quantity of 10 applies to all A shape mounted points.
- All spindles are 6.35mm diameter and 35 - 40mm long.
- Speeds shown are for 12mm overhang (lower rpm for greater overhang).
- Designed for fast stock removal, cleaning metal castings and grinding of work pieces with detailed shapes or limited access to work surface.
- The choice of different shapes allows an operator to select the right profile for a wide range of light grinding and blending operations.
- Typical applications include:
 - foundry work - finishing castings
 - deburring cut metal
 - tool, die and precision engineering work.
- Sizes other than stock lines are usually available on an indent basis. Minimums and lead times apply.

SIZE mm Dia x Thick	MAX RPM	GRADE	GRIT	PRODUCT CODE	LEGACY CODE	BARCODE
20.0 x 65.0	19800	A1	36	66253183153	BV376205	9310357252580
		A1	60	61463624375	BV208965	9310357703532
25.0 x 30.0	25000	A2	60	66235183154	BV376213	9310357252597
25.0 x 70.0	16100	A3	60	61463624378	BV280981	9310357704072
		A3	36	61463624377	BV209007	9310357703747
30.0 x 30.0	20000	A4	60	66253183094	BV209015	9310357703846
20.0 x 28.0	30000	A5	60	66253183095	BV209023	9310357703860
22.0 x 45.0	19860	A11	30	61463606335	BV209074	9310357703549
		A11	A36RD	66253183055	BV	9310357253785
		A11	60	61463624385	BV209031	9310357703556
18.0 x 30.0	30000	A12	60	66253183096	BV209112	9310357703563
28.0 x 28.0	25000	A13	60	66253183097	BV209120	9310357703570
6.0 x 15.0	72750	A15	60	66253183098	BV209155	9310357703594
25.0 x 25.0	25000	A21	60	66253183099	BV209163	9310357703648
6.0 x 20.0	76500	A24	60	66253183100	BV209201	9310357703709
25.0	25000	A25	60	66253183101	BV209228	9310357703716
16.0	30000	A26	60	66253183102	BV209236	9310357703723
35.0 x 25.0	18000	A31	60	66253183103	BV209309	9310357703730
25.0 x 20.0	26000	A32	60	66253183104	BV209317	9310357703754
40.0 x 10.0	16000	A36	60	66253183105	BV209341	9310357704089
25.0 x 25.0	25000	A38	60	66253183106	BV209376	9310357703822
20.0 x 20.0	34000	A39	60	66253183107	BV209406	9310357703839



ALUMINIUM OXIDE FOR FERROUS METALS

B SHAPE



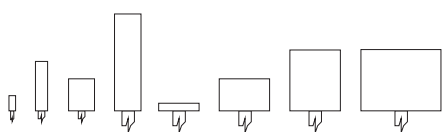
SIZE mm Dia x Thick	MAX RPM	GRADE	GRIT	PRODUCT CODE	LEGACY CODE	BARCODE
16.0 x 16.0	25000	B41	60	66253183108	BV209414	9310357703945
13.0 x 20.0	25000	B42	60	66253183109	BV209422	9310357703952
5.6 x 8.0	61000	B44	90	66253183110	BV209457	9310357703969
10.0 x 20.0	41000	B52	60	66253183111	BV209503	9310357703976
8.0 x 16.0	54000	B53	90	66253183112	BV209546	9310357703983
6.0 x 18.0	50000	B54	60	66253183113	BV209589	9310357703990
20.0 x 13.0	38250	B61	60	66253183114	BV209600	9310357704003
13.0 x 3.0	73500	B72	60	66253183115	BV209643	9310357709039
20.0 x 5.0	47000	B81	90	66253183116	BV209651	9310357704010
3.0 x 6.0	90000	B96	90	66253183117	BV209708	9310357704041
3.0 x 10.0	90000	B97	90	66253183118	BV209716	9310357704058
8.0 x 10.0	50000	B104	90	66253183119	BV209759	9310357703877
13.0	45370	B121	60	66253183120	BV209848	9310357703884
10.0	50000	B122	60	66253183121	BV209856	9310357703891
3.0	90000	B123	80	66253183122	BV209864	9310357703907
13.0 x 13.0	34500	B131	60	66253183123	BV209880	9310357703914
10.0 x 13.0	41000	B132	90	66253183124	BV209899	9310357703921
6.0 x 13.0	50000	B135	90	66253183125	BV209929	9310357706007
6.0 x 8.0	54000	B136	90	66253183126	BV209937	910357709046

- Minimum order quantity of 10 applies to all B shape mounted points.
- All spindles are 3.18mm diameter and 35 - 40mm long.
- Speeds shown are for 12mm overhang (lower rpm for greater overhang).
- Have a smaller profile than the 'A' shapes and are better suited to lighter more intricate applications.
- Typical applications include:
 - tool and die work
 - jig grinding
 - blending the contours of moulded parts
- Sizes other than stock lines are usually available on an indent basis. Minimums and lead times apply.



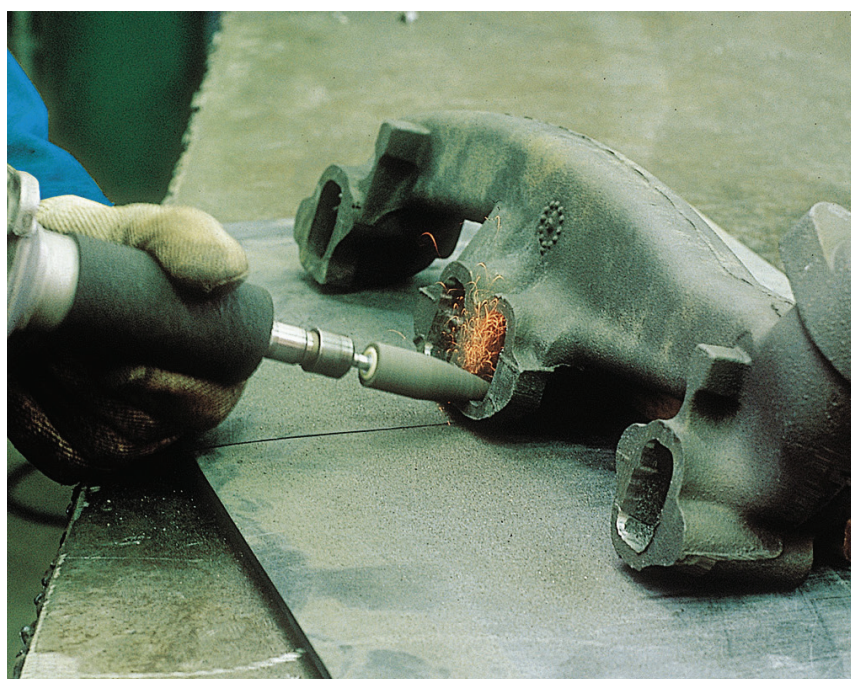
ALUMINIUM OXIDE FOR FERROUS METALS

W SHAPE



- Minimum order quantity of 10 applies to all W shape mounted points.
- W142 to W187 - All spindles are 3.18mm diameter and approximately 35 - 40mm long.
- W188 to W242 - All spindles are 6.35mm diameter and approximately 35 - 40mm long.
- Speeds shown are for 12mm overhang (lower rpm for greater overhang).
- Essentially small straight grinding wheel on a shaft.
- Typical applications include:
 - I.D. (internal diameter) grinding
 - jig grinding of bores and deep recesses
 - weld seam blending
- Sizes other than stock lines are usually available on an indent basis. Minimums and lead times apply.

SIZE mm Dia x Thick	MAX RPM	GRADE	GRIT	PRODUCT CODE	LEGACY CODE	BARCODE
3.0 x 6.0	90000	W144	90	66253183127	BV209953	9310357709091
5.0 x 10.0	70000	W153	90	66253183128	BV210013	9310357709107
6.0 x 13.0	54000	W163	90	66253183129	BV210145	9310357704164
6.0 x 20.0	45900	W164	90	66253183130	BV210196	9310357704171
10.0 x 13.0	45370	W176	60	66253183131	BV210234	9310357709114
13.0 x 3.0	61000	W182	60.0	66253183155	BV376272	9310357253815
13.0 x 40.0	24000	W188	60	66253183132	BV210439	9310357704195
13.0 x 50.0	24000	W189	60	66253183133	BV210447	9310357704201
20.0 x 3.0	40000	W200	90	61463624544	BV210498	9310357709121
20.0 x 25.0	32000	W205	60	66253183134	BV210552	9310357704218
25.0 x 6.0	38200	W216	60	61463624561	BV210625	9310357704577
25.0 x 13.0	30000	W128	A36QB	66253183056	BN376310	9310357253853
		W218	60	66253183135	BV210668	9310357704225
25.0 x 25.0	25500	W220	Q36RB	66253183057	BN376329	9310357253860
		W220	60	66253183136	BV210676	9310357704249
30.0 x 30.0	17000	W230	60	6625183137	BV210781	9310357704256
40.0 x 13.0	20000	W236	A36QB	66253183058	BN376345	9310357253877
		W236	60	66253183138	BV210838	9310357704263
		W236	37C60PV	66253183156	BV376353	931035725884
40.0 x 25.0	19000	W237	A36RB	66253183059	BN376361	9310357253891
50.0 x 25.0	16000	W242	A36RB	66253183060	BN376388	9310357253907
		W242	60	66253183139	BV210889	9310357704270



ALUMINIUM OXIDE
FOR FERROUS METALS



SIZE mm Dia x Thick	MAX RPM	MIN ORDER QTY	GRADE	PRODUCT CODE	LEGACY CODE	BARCODE
50.0 x 13.0 x 9.53	19100	10	A36QB	66253183040	BN201618	9310357702290
50.0 x 20.0 x 9.53	19100	10	A24B	66253183041	BN201626	9310357702283
63.0 x 13.0 x 9.53	15150	10	A36QB	66253183047	BN205311	9310357708964
63.0 x 20.0 x 9.53	15150	10	A36QB	66253183061	BN376396	9310357252757
80.0 x 13.0 x 9.53	12000	10	A30RB	66253183042	BN201634	9310357705994
80.0 x 20.0 x 9.53	12000	10	A20RB	66253183062	BN376418	9310357252764
80.0 x 20.0 x 12.7	12000	10	A36QB	66253183048	BN205370	9310357705833
100.0 x 13.0 x 12.7	9550	5	A36QB	66253183049	BN205389	9310357708988
100.0 x 25.0 x 15.88	9550	5	A20QB	66253183050	BN205397	9310357702276
100.0 x 25.0 x 20.0	9550	5	A20QB	66253183043	BN201650	9310357708995
125.0 x 20.0 x 12.7	7520	5	A20QB	66253183063	BN376450	9310357252801
125.0 x 20.0 x 12.7	7520	5	A30RB	66253183051	BN205931	9310357709008
125.0 x 25.0 x 20.0	7520	5	A20QB	66253183064	BN376469	9310357252818

NorZon/Zirconia
(PREMIUM)



150.0 x 25.0 x 15.88	6400	1	NZ16QB	66253277288	BN376477	9310357252825
----------------------	------	---	--------	-------------	----------	---------------

Plug Wheels
TYPE 18 - SQUARE END



40.0 x 63.0 x M12	23900	5	A24QB	66253183077	BN379387	9310357254638
50.0 x 75.0 x 1/2Whit	18800	5	A24QB	66253183078	BN379395	9310357254652
50.0 x 75.0 x 5/8Whit	18800	5	A24QB	66253183079	BN379409	9310357254652
40.0 x 63.0 x 1/2 UNC	23900	5	A24QB	66253183081	BN399159	9310357268611
63.0 x 75.0 x 1/2 UNC	14900	5	A24QB	66253183082	BN399167	9310357268628

Plug Wheels
TYPE 18R - ROUND END



40.0 x 63.0 x 3/8Whit	23900	5	A24RB	66253183074	BN376779	9310357253099
		5	AC24RB	66253183075	BN376787	9310357253105
40.0 x 63.0 x 3/8 UNF	23900	5	A24RB	66253183076	BN376809	9310357253129

Plug Wheels
TYPE 19 - CONE END



40.0 x 63.0 x 3/8Whit	15910	5	A36QV	66253183158	BV379549	9310357254614
-----------------------	-------	---	-------	-------------	----------	---------------

REXCUT
COTTON BONDED WHEELS



SIZE mm Dia x Thick	MAX RPM	MIN ORDER QTY	GRADE	PRODUCT CODE	LEGACY CODE	BARCODE
100.0 x 3.0 x 16.0	15000	5	A36GFX	66253183371	8410233	9310357084709
100.0 x 4.5 x 16.0	15000	5	A36GFX	66253183372	8410243	9310357084754
100.0 x 6.0 x 16.0	15000	5	A36GFX	66253183373	8410263	9310357084808
115.0 x 3.0 x 22.0	13300	5	A36GFX	66253183374	8411533	9310357084853
115.0 x 4.5 x 22.0	13300	5	A36GFX	66253183375	8411543	9310357084907
115.0 x 6.0 x 22.0	13300	5	A36GFX	66253183376	8411563	9310357084952
125.0 x 4.5 x 22.0	12200	5	A36GFX	66253183035	BF399140	9310357135517

**FLARING CUP
WHEEL**

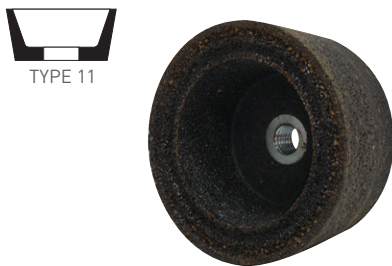
ALUMINIUM OXIDE
For ferrous metals



110.0/95.0 x 50.0 x M14	8500	1	A16RB	66253183066	BN376507	9310357252856
125.0/108.0 x 50.0 x 22.23	7260	1	A16RB	66253183045	BN201707	9310357702252
125.0 x 108.0 x 50.0 x M14	7260	1	A16RB	66253183067	BN376523	9310357252870

**NORZON/ZIRCONIA
(PREMIUM)**

For ferrous metals



110.0/95.0 x 50.0 x 22.23	8500	1	NZ16UB	66253279562	BN201693	9310357702337
125.0/108.0 x 50.0 x 22.23	7520	1	NZ16SB	66253279415	BN115312	9310357709022



SILICON CARBIDE
FOR MASONRY
& NON FERROUS METALS

TYPE 1



SIZE mm Dia x Thick	MAX RPM	MIN ORDER QTY	GRADE	PRODUCT CODE	LEGACY CODE	BARCODE
150.0 x 25.0 x 15.88	6400	1	C16QB	66253183044	BN201677	931037709060

FLARING CUP
WHEEL
FOR MASONRY
& NON FERROUS METALS

TYPE 11



110.0/95.0 x 50.0 x M14	8500	1	C16QB	66253183068	BN376590	9310357252931
125.0/108.0 x 50.0 x 5/8Whit	7260	1	C16QB	66253183069	BN376612	9310357252955
125.0/108.0 x 50.0 x M14	7260	1	C16QB	66253183070	BN376620	9310357252962

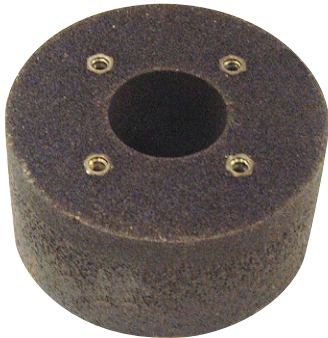
RAIL MAINTENANCE
POINTS AND CROSSINGS

TYPE 5



250.0 x 32.0 x 25.4 Rec 1/S 125.0 x 13.0	3850	1	A14RB	61463670226	BN383287	9310357258230
---	------	---	-------	-------------	----------	---------------

**RAIL MAINTENANCE
NUT INSERTED - FOR WELD
& PROFILE GRINDING**



SIZE mm Dia x Thick	MAX RPM	MIN ORDER QTY	GRADE	PRODUCT CODE	LEGACY CODE	BARCODE
150.0 x 76.0 x 55.0 4 x M8-1.25	6000	1	A14RB	66253183071	BN376736	9310357253051
150.0 x 76.0 x 55.0 4 x M8-1.25 35 Rim & 20 Back	6000	1	THERMIT	66253183072	BN376752	9310357253075
150.0 x 76.0 x 55.0 4 x M8-1.25	6000	1	TLM	66253183073	BN376760	9310357253082

**RAIL MAINTENANCE
TRAMWAYS**



TYPE 6

105.0 x 63.0 x 20.0 32 Rim & 20 Back	7260	1	A16RB	66243589150	BN383279	9310357258247
---	------	---	-------	-------------	----------	---------------



**WEDGE BLOCKS
CONCRETE**



SIZE mm	MIN ORDER QTY	GRIT	PRODUCT CODE	LEGACY CODE	BARCODE
96.8 x 79.0 x 52.0	12	16	66253183000	BB380393	9310357259909
		24	66253183001	BB380407	9310357259916
		36	66253183002	BB380415	9310357259923
		80	66253183003	BB380423	9310357259930
		120	66253183004	BB380431	9310357259947

**SQUARE BLOCKS
CONCRETE**



50.0 x 50.0 x 100.0	12	16	66253183005	BB380458	9310357259954
---------------------	----	----	-------------	----------	---------------





DESCRIPTION	MIN ORDER QTY	PRODUCT CODE	LEGACY CODE	BARCODE
25 x 50 x 200mm Alox Combination Stone IB8 Oil Filled	1	66253183012	BE173304	9310357700067
25 x 50 x 150mm Alox Combination Stone IB8 Oil Filled	1	66253183013	BE173312	9310357700074



30 x 80 x 230mm Sica Combination Stone KS100 Oil Filled	1	66253183008	BE173266	9310357700036
25 x 50 x 200mm Sica Combination Stone #108 Oil Filled	1	66253183009	BE173274	9310357700043
25 x 50 x 150mm Sica Combination Stone #109 Oil Filled	1	66253183010	BE173282	9310357700050
30 x 80 x 230mm Sica Combination Stone KS100 Non-Oil	1	66253183007	BE146587	9310357702139
25 x 50 x 200mm Sica Combination Stone #108 Non-Oil	1	66253183006	BE146544	9310357702146
25 x 50 x 150mm Sica Combination Stone #109 Non-Oil	1	66253183029	BE377015	9310357253310



25 x 50 x 200mm Sica Handyman Bench Stone #115	1	66253183011	BE173290	9310357700081
---	---	-------------	----------	---------------



10 x 22 x 80mm Pocket Stone 149C	1	66253183020	BE205664	9310357700159
-------------------------------------	---	-------------	----------	---------------



16 x 45 x 100mm Sportsmans Stone #112	1	66253183030	BE377058	9310357253341
--	---	-------------	----------	---------------



16 x 75mm Combination Axe Stone 196C	1	66253183015	BE205524	9310357700104
---	---	-------------	----------	---------------



38 x 100mm Combination Knife Stone #289	1	66253183031	BE377066	9310357253358
--	---	-------------	----------	---------------



DESCRIPTION	MIN ORDER QTY	PRODUCT CODE	LEGACY CODE	BARCODE
6 - 1.6 x 45 x 113mm Curved Tool Sharpener 177C	1	66253183016	BE205567	9310357700111



6 - 1.6 x 45 x 113mm Curved Tool Sharpener 178C	1	66253183017	BE205583	9310357700128
---	---	-------------	----------	---------------

13 - 5 x 45 x 113mm Curved Tool Sharpener 183C	1	66253183018	BE205621	9310357700135
--	---	-------------	----------	---------------

13 - 5x 45 x 113mm Curved Tool Sharpener 184C	1	66253183019	BE205648	9310357700142
---	---	-------------	----------	---------------

190mm Kitchen Knife Stone 150C	1	66253183021	BE205680	9310357700166
--------------------------------	---	-------------	----------	---------------



350mm Garden File Stone 57C	1	66253183022	BE205710	9310357700173
-----------------------------	---	-------------	----------	---------------



300mm Scythe Stone 191CD	1	66253183023	BE205729	9310357700180
--------------------------	---	-------------	----------	---------------



BBQ Plate Cleaning Brick GB20C	1	66253183024	BE205737	9310357700197
--------------------------------	---	-------------	----------	---------------



BBQ Plate Cleaning Brick GB200 with Handle	1	66253183032	BE377074	9310357253365
--	---	-------------	----------	---------------



Concrete Rubbing Brick RB30C	1	66253183025	BE205753	9310357700203
------------------------------	---	-------------	----------	---------------

Concrete Rubbing Brick RB60C	1	66253183026	BE205761	9310357700210
------------------------------	---	-------------	----------	---------------



Concrete Rubbing Brick with Handle RB30	1	66253183033	BE377082	9310357253372
---	---	-------------	----------	---------------

Concrete Rubbing Brick with Handle RB60	1	66253183034	BE377090	9310357253389
---	---	-------------	----------	---------------

SUPER ABRASIVES



NORTON

SAINT-GOBAIN®

TM

STRAIGHT DIAMOND WHEEL



SIZE mm	MIN ORDER QTY	GRADE	PRODUCT CODE	LEGACY CODE
100.0 x 6.0 x 3.0 x 31.75	1	D126 C75 BI 126	66260318973	SD378453N
150.0 x 6.0 x 3.0 x 31.75	1	D126 C75 BI 126	66260318974	SD378488N
150.0 x 13.0 x 3.0 x 31.75	1	D126 C75 BI 124	66260319063	SD378496N
150.0 x 20.0 x 3.0 x 31.75	1	D151 C75 BI 124	66260319029	SD100021N

CUT OFF WHEEL



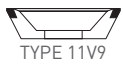
150.0 x 1.4 x 7.0 x 31.75	1	D151 C100 BI 114	66260318879	SD381861N
---------------------------	---	------------------	-------------	-----------

DISH DIAMOND WHEEL 15° ANGLE



125.0 x 5.0 x 2.0 x 31.75 T = 9.0 S = 15°	1	D64 C75 BI 126	66260326150	SD378569N
150.0 x 5.0 x 2.0 x 31.75 T = 11.0 S = 15°	1	D64 C75 BI 126	66260319052	SD378550N
150.0 x 5.0 x 3.0 x 31.75 T = 12.0 S = 15°	1	D126 C75 BI 126	60157697362	SD378542N

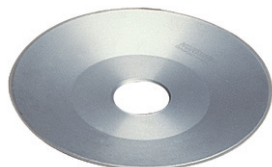
FLARING CUP DIAMOND WHEEL S = 70°



100.0 x 2.0 x 10.0 x 31.75 T = 35.0	1	D64 C75 BI 126	69014149672	SD378593N
	1	D126 C75 BI 126	66260318967	SD378607N
100.0 x 3.0 x 10.0 x 31.75 T = 35.0	1	D64 C75 BI 126	66260318968	SD378577N
	1	D126 C75 BI 126	66260318872	SD378585N

DISH / SAUCER DIAMOND WHEEL

S = 20°



- For tool & cutter grinding and saw sharpening

SIZE mm	MIN ORDER QTY	GRADE	PRODUCT CODE	LEGACY CODE
125.0 x 6.0 x 3.0 x 20.0 x 31.75 T = 17.0	1	D64 C75 BI 126	66260319028	SD378623N
	1	D126 C75 BI 126	66260318952	SD378615N
150.0 x 6.0 x 3.0 x 20.0 x 31.75 T = 19.0	1	D64 C75 BI 126	69014149613	SD378658N
	1	D126 C75 BI 126	66260318979	SD378631N

DISH / SAUCER DIAMOND WHEEL

S = 45°



- For tool & cutter grinding and saw sharpening

150.0 x 2.0 x 10.0 x 31.75 T = 20.0	1	D46 C75 BI 126	66260319064	SD378666N
150 x 3.0 x 10.0 x 31.75 T = 35	1	D91 C75 BI 126	66260319183	SD378674N

FLARING CUP CBN WHEEL

S = 70°



- For general tool & cutter grinding

100.0 x 2.0 x 10.0 x 31.75 T = 35	1	CB 91 C75 BI 171	66260319050	SB378402N
	1	CB 151 C75 BI 161	66260318969	SB378410N

STRAIGHT CBN WHEEL



- For profile grinding

200.0 x 4.0 x 7.0 x 60.0 J = 169.0 T = 8.0	1	CB161C100BI150-1	69014149611	SB381888N
---	---	------------------	-------------	-----------

SINGLE HAND HONES



SIZE mm	MIN ORDER QTY	GRADE	PRODUCT CODE	LEGACY CODE
30.0 x 9.0 x 150 LNG	1	Medium D64 Resin	66260107646	SD381853W

DOUBLE HAND HONES



6.0 x 10.0 x 100.0	1	SD220-320-V99-1.6	69014192149	BD009032
--------------------	---	-------------------	-------------	----------

DIAMOND DRESSER SINGLE POINT NORTON PREMIUM



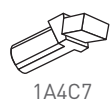
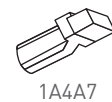
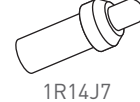
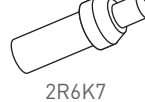
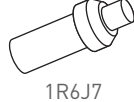
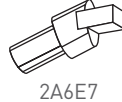
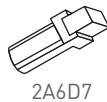
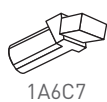
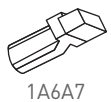
SIZE mm	MIN ORDER QTY	CARAT SIZE	PRODUCT CODE	LEGACY CODE	BARCODE
12.7 x 150.0	1	0.75	7958784003	BD211923	9310357702016
		1.00	7958784004	BD211931	9310357702023

SINGLE POINT ECONOMAX



12.7 x 150.0	1	0.50	7958784000	BD182664	9310357702054
		0.75	7958784001	BD182672	9310357704638
		1.00	7958784002	BD182699	9310357234593
115mm Knurled handle T bar	1	-	7958784005	BD376140	9310357252528

DIAMOND DRESSING TOOLS, MULTI POINT DIAMOND TRUING NIBS

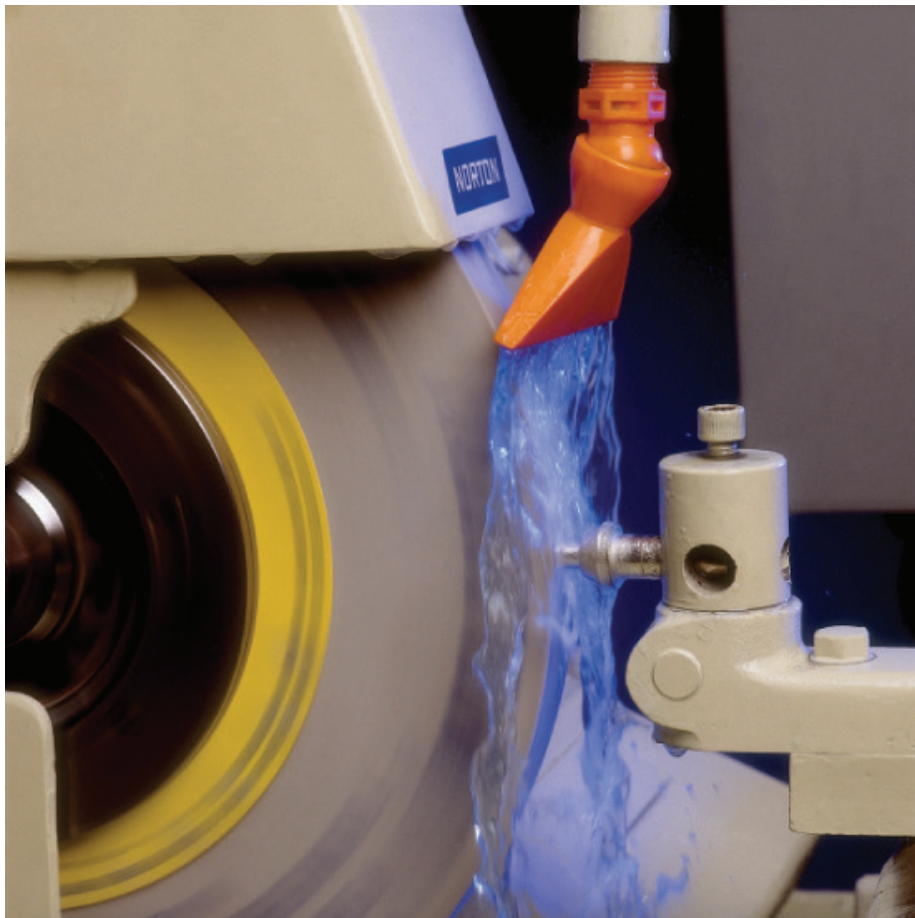


SHAPE	FOR WHEEL DIA mm	FOR WHEEL GRIT SIZE	SECTION SIZE mm	SHANK DIA mm	LENGTH mm	MIN ORDER QTY	PRODUCT CODE	LEGACY CODE
1A6A7	500.0 +	54 to 100	19.05 x 6.35	11.0	19.0	1	66260195031	D381713N
1A6C7	500.0 +	54 to 100	19.05 x 6.35	11.0	19.0	1	66260195039	SD381721N
2A6D7	350.0 to 500.0	54 to 100	12.7 x 6.35	11.0	19.0	1	66260195046	SD381748N
2A6E7	350.0 to 500.0	54 to 100	12.7 x 6.35	11.0	19.0	1	66260195049	SD381756N
1R6J7	up to 250.0	54 to 100	6.35 dia	11.0	30.0	1	66260195088	SD381764N
2R6K7	250.0 to 350.0	54 to 100	9.53 dia	11.0	30.0	1	66260195096	SD381780N

DRESSING STICKS
FOR DIAMOND CBN WHEELS



SIZE width x thick x length	MIN ORDER QTY	GRADE	PRODUCT CODE	LEGACY CODE	BARCODE
20.0 x 20.0 x 150.0	5	38A220GVBE	66253183159	BV380741	9310357256571
25.0 x 25.0 x 150.0	5	38A220GVBE	66253183143	BV375764	9310357252177
10.0 x 22.0 x 80.0	10	38A220HVBE	66253183093	BV208884	9310357704355





Saint-Gobain Abrasives Pty Ltd

15 Edgars Road, Thomastown
Victoria, Australia 3074
Toll Free: 1300 007 650
Fax: 03 9930 7832
www.saint-gobain.com.au

Saint-Gobain Abrasives Ltd

70 Wharf Road,
Te Atatu Peninsula,
Auckland NZ 0610
Phone: 09 834 7119
Fax: 0800 404 044

© Saint-Gobain Abrasives Pty Ltd. All rights reserved
Norton is a registered trademark of Saint-Gobain Abrasives.

