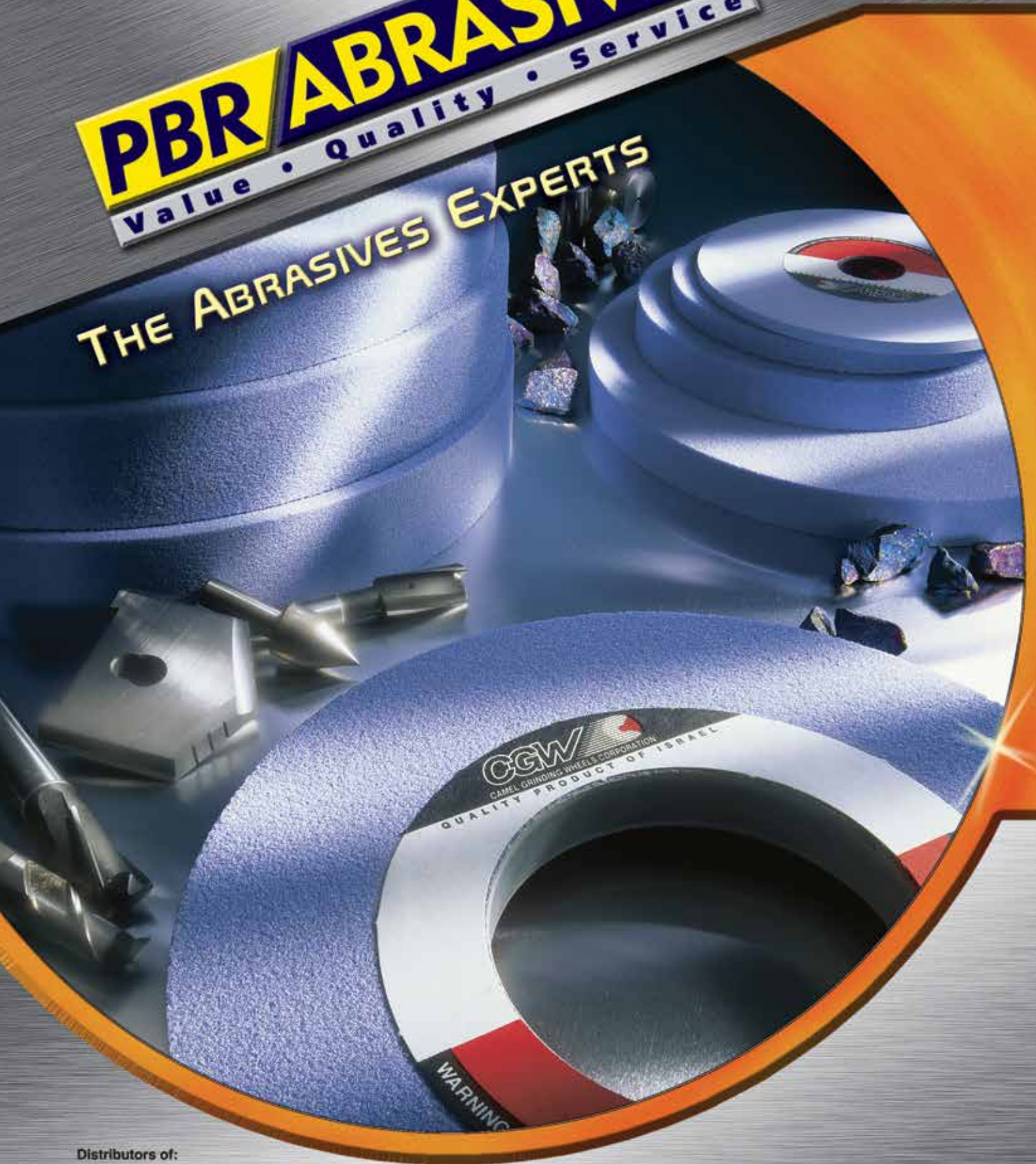


PBR **ABRASIVES**
Value • Quality • Service

THE ABRASIVES EXPERTS



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2015/2016 STOCK & PRICE LIST

PBR ABRASIVES

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- * **COMPETITIVE PRICES**
- * **HIGH QUALITY PRODUCTS**
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- * **FAST DELIVERY SERVICE**



If the item you require is not in our stock list, please telephone or fax your enquiry to our Sales Office.

As well as hundreds of stock lines we always carry a wide selection of non-standard items.

We also operate our own grinding wheel conversion unit where standard shelf stock items can be machined to non-standard sizes within 24 hours if required, at an additional cost of labour time only.

Many customers benefit from this service by ordering a small batch of wheels to be machined to their specific size while a larger batch is manufactured under normal delivery times. This enables production to commence or be maintained while the non-standard is being manufactured.

PBR Abrasives (Wolverhampton) Limited

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Discounts



PBR GRINDING WHEELS DISCOUNT POLICY

| | |
|--------------------------------|----------------|
| Order Value up to £99.99 | list price net |
| Order Value £100.00 to £199.99 | less 15% |
| Order Value £200.00 to £299.99 | less 20% |
| Order Value £300.00 to £399.99 | less 25% |
| Order Value £400.00 to £499.99 | less 30% |
| Order Value £500.00 and over | less 35% |

Carriage Charges

| | |
|--|----------------|
| Delivered by own transport | Free of charge |
| 48 hour parcel freight (up to 25 kilos) | £8.00 |
| 24 hour overnight parcel freight (up to 25 kilos) | £13.00 |
| 24 hour overnight parcel freight (26 kilos to 100 kilos) | £30.00 |
| Scotland 48hr | £25.00 |
| Scotland (Highland & Grampain) 48hr | £27.00 |
| Northern Ireland | £22.00 |
| Europe | £55.00 |

TERMS STRICTLY NETT MONTHLY ACCOUNT

Standard Shapes of Grinding Wheels



Shape 1: Straight grinding wheel



Shape 2: Cylindrical wheel



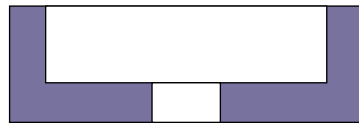
Shape 3: Unilaterally conical grinding wheel



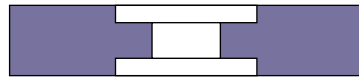
Shape 4: Bilaterally conical grinding wheel



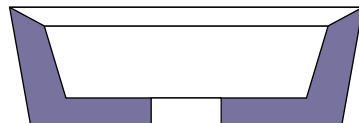
Shape 5: Straight grinding wheel, recessed on one side



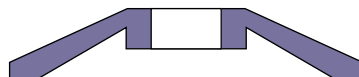
Shape 6: Cylindrical cup-wheel



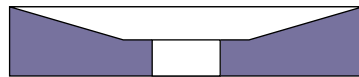
Shape 7: Straight grinding wheel, recessed on two sides



Shape 11: Conical cup-wheel



Shape 12: Dish wheel



Shape 20: Straight grinding wheel, relieved on one side



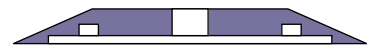
Shape 21: Straight grinding wheel, relieved on two sides



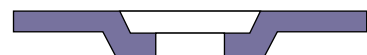
Shape 38: Straight grinding wheel, unilaterally recessed



Shape 39: Straight grinding wheel, bilaterally recessed



Wheels for Mags and Klingenberg



Example of depressed-centre wheel



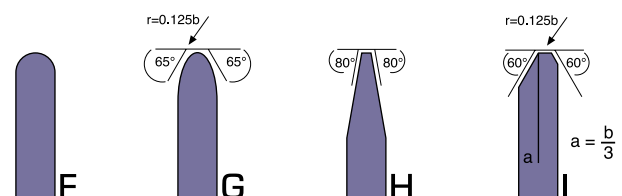
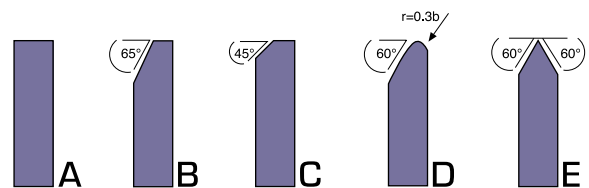
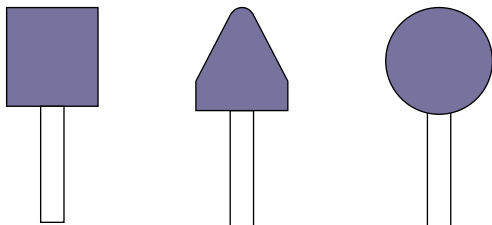
Example of cut-off and parting off wheel

Standard I.S.O. Peripheral Shaped

Examples

Shapes of mounted points

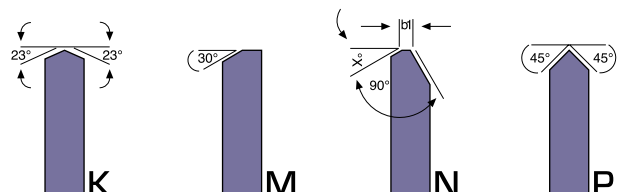
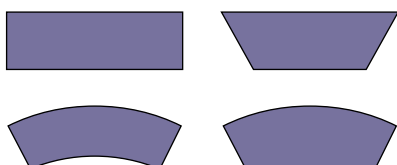
see DIN 69170, parts 1-4 ISO 2933, W, A and B Shapes 3mm and 6mm spindles



Examples

Segment shapes

Lumsden Churchill Snow Blanchard



Analysis of Typical Wheel Specifications



MAXIMUM OPERATING SPEED

180 x 13 x 31.75

WHEEL SIZE

A 36P 6V 1

ABRASIVE

GRAIN SIZE

GRADE

STRUCTURE

BOND

SHAPE

A = Abrasive To Suit All Materials

For the manufacture of these products we employ two different classes of abrasive: Aluminium Oxide (symbol A) and Silicon Carbide (symbol C) in various types, as listed on the opposite page.

Grain Size

Ex. Coarse: 8, 10, 12, 14, 16, 20, 24, 30, 36

Coarse: 24, 30, 36

Med: 46, 54, 60

Fine: 80, 90, 100, 120, 150, 180, 220, 240, 280, 320, 400, 500, 600, 800, 1000

Grade

Soft: E, F, G, H, I, J,

Med: K, L, M, N, O, P

Hard: Q, R, S, T, U

Structure

DENSE ← → **OPEN/POROUS**

0 1 2 3 4 5 6 7 8 9 10 11 12

Bond

V = Vitrified

B = Resinoid

S = Silicate

E = Shellac

R = Rubber

Shape

1. Straight

2. Cylinder

5. Recessed One Side

6. Cup

11. Flaring Cup

12. Dish

13. Saucer

Wheel size

Diameter x Thickness x Hole Size

Analysis of Typical Wheel Specifications

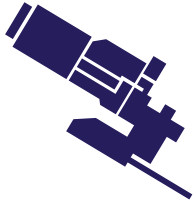


STANDARD MARKINGS

| | | | |
|----------------|---|------------------|--|
| 15A | Normal Aluminium Oxide, the most used abrasive and the most suitable for all types of work on materials which possess great strength. | AS3/3GA | White Aluminium Oxide with a high percentage mixture of special High Performance Abrasive (Blue in colour). |
| 51A | Mixture of 15A and 16A (semi-friable abrasive) used for Centreless and Cylindrical Grinding operations. | EKsp/8A | Is a strong, sharp monocrystalline grain. It is particularly suited for grinding tool steels and hard alloy steels. |
| 19A | White Aluminium Oxide, suitable for surface grinding and internal grinding of tool steel, high speed steel and other hardened steel. | EKro/4A | Pink Aluminium Oxide for grinding medium to hard steels - Various applications. |
| 17A | This is a mixture of 15A and 19A abrasive used for intermediate operations. Highly recommended for centreless, cylindrical and internal grinding. | HK/52A | Mixed Aluminium Oxide 50% Blue / 50% White mixed for production grinding preferred for cylindrical, centreless and internal grinding. |
| WAG | Special High Performance Aluminium Oxide for CNC Cylindrical Grinding operations. | EKw/2A | White Aluminium Oxide - A friable abrasive for grinding high speed and tool steel - preferred for surface, cylindrical and tool cutter grinding. |
| 21A | Pink Aluminium Oxide, very similar to 19A suitable for tool and cutter surface grinding. | HK3/Nk/7A | Special mixture 50% semi-friable abrasive and 50% Brown Aluminium Oxide for cylindrical grinding. |
| 22C | Black Silicon Carbide Abrasive for heavy duty operations on cast iron castings, brass and bronze. | NKg/3A/A | Normal Aluminium Oxide (Blue/Grey). A tough abrasive suitable for most types of work including Heavy Re-Grinding of Circular Saw Blades and General Purpose Grinding Operations. |
| 24C/C | Light Green Silicon Carbide Abrasive used on carbide and non-ferrous materials and non-magnetic stainless steel. | | |
| AS1/1GA | White Aluminium Oxide with a mixture of special high performance Abrasive for hard steels (Blue in colour). | | |

C.G.W. Zirconium Flap Disc

C.G.W. Zirconium Abrasive Flap Discs Lightweight Glassfibre Backed Available "Convex" or "Flat" from stock in 36,40, 60, 80 and 120 grits.



Benefits of using C.G.W.

Zirconium Flap Discs include:

- Constant surface finish throughout its use
- No backing pad required
- Cool grinding
- Low noise level
- Reduced set up time
- For use on all angle grinders
- Rapid stock removal
- Superior finish in a single operation
- For high performance on steel, alloys etc.

Price: per each disc, boxed in 10's.
Discounts available based on quantity.



| APPLICATION | TYPE No. | SIZE | GRIT | SPEED (RPM) | PRICE EACH (£) |
|---------------|-------------|--------|------|-------------|----------------|
| Edge Grinding | 27 - Flat | 100x16 | 36 | 15300 | 1.95 |
| Edge Grinding | 27 - Flat | 100x16 | 40 | 15300 | 1.95 |
| Edge Grinding | 27 - Flat | 100x16 | 60 | 15300 | 1.95 |
| Edge Grinding | 27 - Flat | 100x16 | 80 | 15300 | 1.95 |
| Edge Grinding | 27 - Flat | 100x16 | 120 | 15300 | 1.95 |
| Edge Grinding | 29 - Convex | 100x16 | 36 | 15300 | 1.95 |
| Edge Grinding | 29 - Convex | 100x16 | 40 | 15300 | 1.95 |
| Edge Grinding | 29 - Convex | 100x16 | 60 | 15300 | 1.95 |
| Edge Grinding | 29 - Convex | 100x16 | 80 | 15300 | 1.95 |
| Edge Grinding | 29 - Convex | 100x16 | 120 | 15300 | 1.95 |
| Edge Grinding | 27 - Flat | 115x22 | 36 | 13300 | 2.15 |
| Edge Grinding | 27 - Flat | 115x22 | 40 | 13300 | 2.15 |
| Edge Grinding | 27 - Flat | 115x22 | 60 | 13300 | 2.15 |
| Edge Grinding | 27 - Flat | 115x22 | 80 | 13300 | 2.15 |
| Edge Grinding | 27 - Flat | 115x22 | 120 | 13300 | 2.15 |
| Edge Grinding | 29 - Convex | 115x22 | 36 | 13300 | 2.15 |
| Edge Grinding | 29 - Convex | 115x22 | 40 | 13300 | 2.15 |
| Edge Grinding | 29 - Convex | 115x22 | 60 | 13300 | 2.15 |
| Edge Grinding | 29 - Convex | 115x22 | 80 | 13300 | 2.15 |
| Edge Grinding | 29 - Convex | 115x22 | 120 | 13300 | 2.15 |
| Edge Grinding | 27 - Flat | 127x22 | 36 | 12200 | 2.73 |
| Edge Grinding | 27 - Flat | 127x22 | 40 | 12200 | 2.61 |
| Edge Grinding | 27 - Flat | 127x22 | 60 | 12200 | 2.61 |
| Edge Grinding | 27 - Flat | 127x22 | 80 | 12200 | 2.61 |
| Edge Grinding | 27 - Flat | 127x22 | 120 | 12200 | 2.61 |
| Edge Grinding | 29 - Convex | 127x22 | 36 | 12200 | 2.61 |
| Edge Grinding | 29 - Convex | 127x22 | 40 | 12200 | 2.61 |
| Edge Grinding | 29 - Convex | 127x22 | 60 | 12200 | 2.61 |
| Edge Grinding | 29 - Convex | 127x22 | 80 | 12200 | 2.61 |
| Edge Grinding | 29 - Convex | 127x22 | 120 | 12200 | 2.61 |
| Edge Grinding | 27 - Flat | 180x22 | 36 | 8500 | 5.39 |
| Edge Grinding | 27 - Flat | 180x22 | 40 | 8500 | 5.39 |
| Edge Grinding | 27 - Flat | 180x22 | 60 | 8500 | 5.39 |
| Edge Grinding | 27 - Flat | 180x22 | 80 | 8500 | 5.39 |
| Edge Grinding | 27 - Flat | 180x22 | 120 | 8500 | 5.39 |
| Edge Grinding | 29 - Convex | 180x22 | 36 | 8500 | 5.39 |
| Edge Grinding | 29 - Convex | 180x22 | 40 | 8500 | 5.39 |
| Edge Grinding | 29 - Convex | 180x22 | 60 | 8500 | 5.39 |
| Edge Grinding | 29 - Convex | 180x22 | 80 | 8500 | 5.39 |
| Edge Grinding | 29 - Convex | 180x22 | 120 | 8500 | 5.39 |

AZ Surface & Cylindrical Grinding Wheels

This Range of precision surface grinding wheels has been developed for grinding high speed steel, M2, D2 and tool steel. It gives an excellent performance on materials 55 RC and harder. AZ wheels contain a special friable grain and a cool cutting bond. This allows free cutting without burning.

This new product contains a premium Blue Aluminium Oxide grain combined with V32 bond. The bond has been designed to pull the heat into the matrix of the wheel and away from the grinding contact area.

Benefits of AZ Cool Blue

- Faster stock removal
- Cool cutting
- Competitive prices only slightly higher than normal white aluminium oxide grain



| APPLICATION | TYPE No. | SIZE | GRIT & GRADE | SPEED (RPM) | PRICE EACH (£) |
|------------------|----------|----------------|--------------|-------------|----------------|
| Surface Grinding | T-1 | 150x13x31.75 | AZ46KV | 4460 | 16.62 |
| Surface Grinding | T-1 | 150x13x31.75 | AZ60KV | 4460 | 16.62 |
| Surface Grinding | T-1 | 180x6x31.75 | AZ46KV | 4780 | 15.80 |
| Surface Grinding | T-1 | 180x6x31.75 | AZ60KV | 4780 | 15.80 |
| Surface Grinding | T-1 | 180x13x31.75 | AZ46HV | 4780 | 19.94 |
| Surface Grinding | T-1 | 180x13x31.75 | AZ46JV | 4780 | 19.94 |
| Surface Grinding | T-1 | 180x13x31.75 | AZ46KV | 4780 | 19.94 |
| Surface Grinding | T-1 | 180x13x31.75 | AZ60JV | 4780 | 19.94 |
| Surface Grinding | T-1 | 180x13x31.75 | AZ60KV | 4780 | 19.94 |
| Surface Grinding | T-1 | 180x20x31.75 | AZ46JV | 4780 | 24.80 |
| Surface Grinding | T-1 | 180x20x31.75 | AZ46KV | 4780 | 24.80 |
| Surface Grinding | T-1 | 180x20x31.75 | AZ60KV | 4780 | 24.80 |
| Surface Grinding | T-5 | 180x25x31.75 | AZ46KV | 4780 | 32.02 |
| | | R/O/S 105x12.7 | | | |
| Surface Grinding | T-1 | 200x13x31.75 | AZ46KV | 4300 | 23.09 |
| Surface Grinding | T-1 | 200x13x31.75 | AZ60KV | 4300 | 23.09 |
| Surface Grinding | T-1 | 200x20x31.75 | AZ46KV | 4300 | 30.38 |
| Surface Grinding | T-1 | 200x20x31.75 | AZ60KV | 4300 | 30.38 |
| Surface Grinding | T-1 | 250x25x50.8 | AZ46IV | 3440 | 48.91 |
| Surface Grinding | T-1 | 250x25x76.2 | AZ46HV | 3440 | 48.91 |
| Surface Grinding | T-1 | 250x25x76.2 | AZ46KV | 3440 | 48.91 |
| Surface Grinding | T-1 | 250x25x76.2 | AZ60KV | 3440 | 48.91 |
| Surface Grinding | T-1 | 250x40x76.2 | AZ46JV | 3440 | 83.44 |
| Surface Grinding | T-1 | 250x50x76.2 | AZ46HV | 3440 | 88.94 |
| Surface Grinding | T-1 | 250x50x76.2 | AZ46KV | 3440 | 88.94 |
| Surface Grinding | T-1 | 300x25x76.2 | AZ46IV | 2870 | 80.28 |
| Surface Grinding | T-1 | 300x25x127 | AZ46IV | 2870 | 69.89 |
| Cylindrical | T-1 | 300x25x127 | AZ46KV | 2870 | 69.89 |
| Cylindrical | T-1 | 300x25x127 | AZ60JV | 2870 | 69.89 |
| Cylindrical | T-1 | 300x25x127 | AZ60KV | 2870 | 69.89 |
| Cylindrical | T-5 | 300x40x127 | AZ46KV | 2870 | 106.07 |
| | | R/O/S 193x13 | | | |
| Cylindrical | T-5 | 300x40x127 | AZ60KV | 2870 | 106.07 |
| | | R/O/S 193x13 | | | |
| Surface Grinding | T-7 | 300x50x76.2 | AZ46IV | 2870 | 149.56 |
| | | R/B/S 165x12.7 | | | |
| Surface Grinding | T-1 | 300x50x127 | AZ46KV | 2870 | 124.70 |
| Cylindrical | T-1 | 300x50x127 | AZ60KV | 2870 | 124.70 |
| Cylindrical | T-1 | 356x25x127 | AZ46KV | 2460 | 99.93 |
| Cylindrical | T-1 | 356x25x127 | AZ60KV | 2460 | 99.93 |
| Surface Grinding | T-1 | 356x50x127 | AZ46KV | 2460 | 164.53 |
| Surface Grinding | T-1 | 356x50x127 | AZ46HV | 2460 | 164.53 |
| Surface Grinding | T-1 | 356x50x127 | AZ46JV | 2460 | 164.53 |
| Cylindrical | T-1 | 356x50x127 | AZ60KV | 2460 | 164.53 |
| Surface Grinding | T-1 | 406x50x127 | AZ46HV | 2150 | 211.09 |
| Surface Grinding | T-1 | 406x50x127 | AZ46IV | 2150 | 211.09 |
| Cylindrical | T-1 | 406x50x127 | AZ60KV | 2150 | 211.09 |
| Surface Grinding | T-1 | 406x76.2x127 | AZ46HV | 2150 | 349.77 |
| Surface Grinding | T-1 | 406x76.2x127 | AZ60IV | 2150 | 349.77 |

Special Aluminium Oxide High Performance Grinding Wheels

Advantages of special Aluminium Oxide abrasive wheels

- Reduced grinding costs
- Shorter cycle grinding times
- Longer wheel life
- Higher total part quality

One or a combination of the following guidelines should be used:

- 1 Increase wheel infeed e.g. current infeed 0.2mm
3B - AS 0.3 to 0.4mm.
- 2 Reduce diamond dressing infeed by 50%.
- 3 Double the number of parts between dressings.
- 4 A high quality single-point or multi-point diamond dressing tool is recommended.



Discounts apply as page 2

| APPLICATION | TYPE No. | SIZE | GRIT & GRADE | SPEED (RPM) | PRICE EACH (£) |
|-------------------|----------|--------------------------------------|----------------|-------------|----------------|
| Internal Grinding | T-5 | 20x20x6.35 R/O/S 10x10 | 3GA60/1K7V58T1 | 33420 | 11.72 |
| Internal Grinding | T-5 | 25x25x6.35 R/O/S 10x10 | AS346/60I7V | 26740 | 10.33 |
| Internal Grinding | T-5 | 25x25x6.35 R/O/S 10x10 | 3GA60/1K7V58T1 | 26740 | 13.80 |
| Internal Grinding | T-5 | 25x25x6.35 R/O/S 13x13 | 3GA60/1K7V58T1 | 26740 | 13.80 |
| Internal Grinding | T-5 | 40x25x6.35 R/O/S 13x13 | 3GA60/1K7V58T1 | 16710 | 15.97 |
| Internal Grinding | T-5 | 40x25x9.53 R/O/S 20x13 | 3GA60/1K7V58T1 | 16710 | 15.97 |
| Internal Grinding | T-5 | 40x25x12.7 R/O/S 20x12 | 1GA60/3K7V43 | 16710 | 7.68 |
| Internal Grinding | T-5 | 40x25x12.7 R/O/S 20x12.7 | AS346/60I7V | 16710 | 12.82 |
| Internal Grinding | T-5 | 40x25x12.7 R/O/S 20x13 | 3GA60/1K7V58T1 | 16710 | 15.97 |
| Internal Grinding | T-5 | 40x40x12.7 R/O/S 20x20 | 3GA60/1K7V58 | 16710 | 25.66 |
| Internal Grinding | T-5 | 50x25x12.7 R/O/S 20x13 | 3GA60/1K7V58T1 | 13370 | 20.16 |
| Internal Grinding | T-5 | 50x40x12.7 R/O/S 25x20 | 3GA60/1K7V58 | 13370 | 25.66 |
| Internal Grinding | T-5 | 50x50x12.7 R/O/S 25x25 | 3GA60/1K7V58T1 | 13370 | 30.79 |
| Internal Grinding | T-5 | 63x40x12.7 R/O/S 32x20 | 3GA60/1K7V58T1 | 11800 | 29.83 |
| Tool & Cutter | T-11 | 100/71x40x31.75 8mm Rim 10mm Back | AS146J6V | 5730 | 23.30 |
| Tool & Cutter | T-11 | 100/71x40x31.75 8mm Rim 10mm Back | AS160J6V | 5730 | 23.30 |
| Tool & Cutter | T-11 | 100/71x40x31.75 8mm Rim 10mm Back | AS346K6V | 5730 | 30.07 |
| Tool & Cutter | T-11 | 100/71x40x31.75 8mm Rim 10mm Back | AS360K6V | 5730 | 30.07 |
| Tool & Cutter | T-1 | 150x13x31.75 | AS146J6V | 4460 | 20.68 |
| Tool & Cutter | T-1 | 150x13x31.75 | AS160J6V | 4460 | 20.68 |
| Tool & Cutter | T-12 | 150x13x31.75 8mm Rim 9mm Back | AS160KV | 4460 | 26.05 |
| Tool & Cutter | T-1 | 180x6x31.75 | AS360J6V | 4780 | 22.08 |
| Surface Grinding | T-1 | 180x13x31.75 | AS146J6V | 4780 | 24.80 |
| Surface Grinding | T-1 | 180x13x31.75 | AS160J6V | 4780 | 24.80 |
| Surface Grinding | T-1 | 180x13x31.75 | AS346H7V | 4780 | 32.06 |
| Surface Grinding | T-1 | 180x13x31.75 | AS346I7V | 4780 | 32.06 |
| Surface Grinding | T-1 | 180x13x31.75 | AS346J7V | 4780 | 32.06 |
| Surface Grinding | T-1 | 180x13x31.75 | AS360H6V | 4780 | 32.06 |
| Surface Grinding | T-1 | 180x13x31.75 | AS360I6V | 4780 | 32.06 |
| Surface Grinding | T-1 | 180x13x31.75 | AS360J6V | 4780 | 32.06 |

Special Aluminium Oxide High Performance Grinding Wheels



| APPLICATION | TYPE No. | SIZE | GRIT & GRADE | SPEED (RPM) | PRICE EACH (£) |
|-----------------------|----------|--------------------------------|---------------|-------------|----------------|
| Surface Grinding | T-1 | 180x13x31.75 | AS370IVP | 4780 | 32.06 |
| Surface Grinding | T-1 | 180x20x31.75 | AS146J6V | 4780 | 31.03 |
| Surface Grinding | T-1 | 180x20x31.75 | AS160J6V | 4780 | 31.03 |
| Surface Grinding | T-1 | 180x20x31.75 | AS346J7V | 4780 | 40.07 |
| Surface Grinding | T-5 | 180x25x31.75 | AS146J6V | 4780 | 44.19 |
| Surface Grinding | T-5 | R/O/S 105x12.7 180x25x31.75 | AS160J6V | 4780 | 44.19 |
| Surface Grinding | T-5 | R/O/S 105x12.7 180x25x31.75 | AS346H/I6V | 4780 | 57.06 |
| Surface Grinding | T-5 | R/O/S 105x13 180x25x31.75 | AS346J7V | 4780 | 57.06 |
| Surface Grinding | T-5 | R/O/S 105x13 180x25x31.75 | AS360H/I6V | 4780 | 57.06 |
| Surface Grinding | T-5 | R/O/S 105x13 180x25x31.75 | AS360J7V | 4780 | 57.06 |
| Surface Grinding | T-1 | 200x13x31.75 | AS146J6V | 4300 | 29.99 |
| Surface Grinding | T-1 | 200x13x31.75 | AS346J6V | 4300 | 38.72 |
| Surface Grinding | T-1 | 200x13x31.75 | AS360J6V | 4300 | 38.72 |
| Surface Grinding | T-1 | 200x20x31.75 | AS146J6V | 4300 | 41.34 |
| Surface Grinding | T-1 | 200x20x31.75 | AS160J6V | 4300 | 41.34 |
| Surface Grinding | T-1 | 200x20x31.75 | AS346J7V | 4300 | 54.04 |
| Surface Grinding | T-1 | 200x20x31.75 | AS360J7V | 4300 | 54.04 |
| Surface & Cylindrical | T-1 | 250x25x76.2 | AS146J6V | 3440 | 63.08 |
| Surface & Cylindrical | T-1 | 250x25x76.2 | AS160J6V | 3440 | 63.08 |
| Surface & Cylindrical | T-1 | 250x25x76.2 | AS180I10VP | 3440 | 63.08 |
| Surface & Cylindrical | T-1 | 250x25x76.2 | AS346H10VP | 3440 | 81.44 |
| Surface & Cylindrical | T-1 | 250x25x76.2 | AS346K6V | 3440 | 81.44 |
| Surface & Cylindrical | T-1 | 250x25x76.2 | AS360I16V | 3440 | 81.44 |
| Surface Grinding | T-1 | 250x40x76.2 | AS146/54J8V | 3440 | 86.87 |
| Surface Grinding | T-1 | 250x50x76.2 | AS146/54H/I8V | 3440 | 116.14 |
| Surface Grinding | T-1 | 250x50x76.2 | AS146J7V | 3440 | 116.14 |
| Cylindrical | T-1 | 300x25x127 | AS160J6V | 2870 | 86.87 |
| Cylindrical | T-1 | 300x25x127 | AS180I10VP | 2870 | 104.24 |
| Cylindrical | T-1 | 300x25x127 | AS346K6V | 2870 | 112.15 |
| Cylindrical | T-1 | 300x25x127 | AS360K6V | 2870 | 112.15 |
| Cylindrical | T-5 | 300x40x127 | AS180I10VP | 2870 | 122.06 |
| Cylindrical | T-5 | R/O/S 193x13 300x40x127 | AS346K6V | 2870 | 169.39 |
| Cylindrical | T-5 | R/O/S 193x13 300x40x127 | AS360K6V | 2870 | 169.39 |
| Cylindrical | T-1 | 356x25x127 | AS360J6V | 2460 | 163.13 |
| Surface Grinding | T-1 | 356x50x127 | AS346F12V | 2460 | 293.85 |
| Surface Grinding | T-1 | 356x50x127 | AS346J7V | 2460 | 293.85 |
| Surface Grinding | T-1 | 406 x 25 x 127 | AS180I10VP | 2150 | 143.75 |
| Surface Grinding | T-1 | 406x50x127 | AS146H12V | 2150 | 355.55 |
| Surface Grinding | T-1 | 406x50x127 | AS160H12V | 2150 | 355.55 |
| Surface Grinding | T-1 | 406 x 50 x 127 | AS160I10VP | 2150 | 355.55 |
| Surface Grinding | T-1 | 406x50x127 | AS346H12V | 2150 | 393.96 |
| Surface Grinding | T-1 | 406x50x127 | AS346I8V | 2150 | 393.96 |
| Surface Grinding | T-1 | 406x50x127 | AS346J7V | 2150 | 393.96 |
| Cylindrical | T-1 | 457x50x203.2 | AS1-60-I10VP | 1490 | 417.19 |
| Cylindrical | T-1 | 457x50x203.2 | AS1-80-I10VP | 1490 | 417.19 |
| Cylindrical | T-1 | 457x50x203.2 | AS360K6V | 1490 | 449.07 |
| Cylindrical | T-1 | 508x50x203.2 | AS180I10VP | 1340 | 443.98 |

Standard Stock - Plain & Recessed Grinding Wheels

Discounts apply as page 2



| APPLICATION | TYPE No. | SIZE | GRIT & GRADE | SPEED (RPM) | PRICE EACH (£) |
|-------------------|----------|---------------------------------|---------------|-------------|----------------|
| Internal Grinding | T-1 | 13 x 13 x 3.18 | 2A60/3K5V | 51420 | 3.75 |
| Internal Grinding | T-5 | 13 x 13 x 3.18 ROS 6 x 5 | 2A60/3K5V | 51420 | 3.84 |
| Internal Grinding | T-5 | 20 x 20 x 6.35 ROS 10 x 10 | A60/3K7V35 | 33420 | 4.71 |
| Internal Grinding | T-5 | 20 x 20 x 6.35 ROS 10 x 10 | 2A46/3K5V | 33420 | 4.96 |
| Internal Grinding | T-5 | 20 x 20 x 6.35 ROS 10 x 10 | 2A60/3K5V | 33420 | 4.96 |
| Internal Grinding | T-5 | 20 x 20 x 6.35 ROS 10 x 10 | C60/1J7V60 | 33420 | 5.90 |
| Internal Grinding | T-1 | 25 x 25 x 6.35 | 2A60/3K5V | 26740 | 4.76 |
| Internal Grinding | T-5 | 25 x 25 x 6.35 ROS 10 x 10 | 2A46/3K5V | 26740 | 5.85 |
| Internal Grinding | T-5 | 25 x 25 x 6.35 ROS 10 x 10 | 2A60/3K5V | 26740 | 5.85 |
| Internal Grinding | T-5 | 25 x 25 x 6.35 ROS 13 x 13 | A60/3K7V35 | 26740 | 5.62 |
| Internal Grinding | T-5 | 25 x 25 x 6.35 ROS 13 x 13 | 2A60/3K5V | 26740 | 5.85 |
| Internal Grinding | T-5 | 25 x 25 x 6.35 ROS 13 x 13 | C60/3J7V60T1 | 26740 | 7.95 |
| Internal Grinding | T-5 | 25 x 25 x 6.35 ROS 13 x 13 | C100/3J7V60T1 | 26740 | 7.95 |
| Internal Grinding | T-5 | 25 x 25 x 6.35 ROS 13 x 13 | 52A60/3J7V35 | 26740 | 5.68 |
| Internal Grinding | T-5 | 25 x 25 x 6.35 ROS 13 x 13 | 52A80/3J7V35 | 26740 | 5.68 |
| Internal Grinding | T-5 | 32 x 25 x 9.53 ROS 16 x 16 | 8A60/3J7V835 | 20890 | 8.27 |
| Internal Grinding | T-5 | 32 x 25 x 12.7 ROS 16 x 12.7 | 8A60/3J7V835 | 20890 | 8.27 |
| Internal Grinding | T-5 | 40 x 25 x 6.35 ROS 13 x 13 | 2A46/3K5V | 16710 | 6.79 |
| Internal Grinding | T-5 | 40 x 25 x 6.35 ROS 20 x 13 | 2A60/3K6V | 16710 | 6.79 |
| Internal Grinding | T-5 | 40 x 25 x 9.53 ROS 20 x 13 | 2A46/3K5V | 16710 | 6.79 |
| Internal Grinding | T-5 | 40 x 25 x 9.53 ROS 20 x 13 | 2A60/3K5V | 16710 | 6.79 |

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Discounts apply as page 2



| APPLICATION | TYPE No. | SIZE | GRIT & GRADE | SPEED (RPM) | PRICE EACH (£) |
|-------------------|----------|--------------------------------|----------------|-------------|----------------|
| Internal Grinding | T-5 | 40 x 25 x 12.7 ROS 20 x 13 | 52A60/3J7V35 | 16710 | 6.54 |
| Internal Grinding | T-5 | 40 x 25 x 12.7 ROS 25 x 13 | C60/3J7V60T1 | 16710 | 9.28 |
| Internal Grinding | T-5 | 40 x 25 x 12.7 ROS 20 x 13 | 2A60/3K5V | 16710 | 6.79 |
| Internal Grinding | T-5 | 40 x 40 x 12.7 ROS 20 x 20 | 2A60/3K5V | 16710 | 7.93 |
| Internal Grinding | T-5 | 50 x 25 x 12.7 ROS 25 x 13 | 2A60/3K5V | 13370 | 8.28 |
| Internal Grinding | T-5 | 50 x 40 x 12.7 ROS 25 x 20 | C60/3J7V60T1 | 13370 | 17.61 |
| Internal Grinding | T-5 | 50 x 50 x 12.7 ROS 25 x 25 | 2A46/3K5V | 13370 | 13.08 |
| Internal Grinding | T-5 | 50 x 50 x 12.7 ROS 25 x 25 | 2A60/3K5V | 13370 | 13.08 |
| Internal Grinding | T-5 | 50 x 50 x 19.05 ROS 25 x 25 | C60/3J7V60T1 | 13370 | 17.62 |
| Internal Grinding | T-5 | 63 x 40 x 12.7 ROS 32 x 20 | 2A60/3K5V | 11800 | 13.12 |
| Internal Grinding | T-5 | 63 x 40 x 19.05 ROS 25 x 13 | 52A60/3J7V35 | 11800 | 11.33 |
| Internal Grinding | T-1 | 75 x 25 x 12.7 | 22C60M4V | 10810 | 11.33 |
| Diamond Dressing | T-1 | 75 x 25 x 12.7 | 24C70L5V | 10810 | 11.12 |
| Internal Grinding | T-5 | 75 x 50 x 31.75 ROS 45 x 20 | 52A46/J6V35 | 10810 | 16.22 |
| Diamond Dressing | T-1 | 100 x 25 x 12.7 | 19A100H5V | 6680 | 12.12 |
| Diamond Dressing | T-1 | 100 x 25 x 12.7 | C70/1H18/6V60 | 6680 | 14.13 |
| Diamond Dressing | T-1 | 100 x 25 x 12.7 | 24C70L5V | 6680 | 14.83 |
| Optical Profile | T-1 | 125 x 5 x 31.75 | 24C150L5V | 5350 | 11.57 |
| Optical Profile | T-1 | 125 x 5 x 31.75 | 24C220L5V | 5350 | 17.35 |
| Tool Cutter | T-1 | 125 x 6 x 31.75 | 19A60K7V | 5350 | 9.39 |
| Optical Profile | T-1 | 125 x 6 x 31.75 | EKW100K3V42/25 | 5350 | 10.84 |
| Optical Profile | T-1 | 125 x 6 x 31.75 | SCG220L5V38 | 5350 | 20.18 |
| Off Hand | T-1 | 125 x 13 x 31.75 | 15A36P5V | 5350 | 11.60 |
| Off Hand | T-1 | 125 x 13 x 31.75 | 15A60P5V | 5350 | 11.60 |

Standard Stock - Plain & Recessed Grinding Wheels

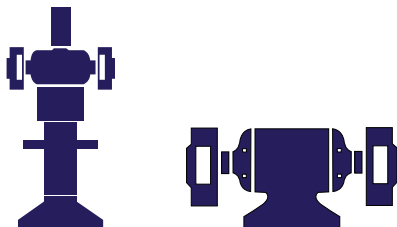
Discounts apply as page 2



| APPLICATION | TYPE No. | SIZE | GRIT & GRADE | SPEED (RPM) | PRICE EACH (£) |
|------------------|----------|--------------|---------------|-------------|----------------|
| Saw Sharpening | T-1 | 150x1.5x32 | 21A80M5V | 4460 | 12.09 |
| Saw Sharpening | T-1 | 150x2x32 | 21A80L/M5V | 4460 | 12.09 |
| Saw Sharpening | T-1 | 150x2.5x32 | 21A80L/M5V | 4460 | 12.09 |
| Saw Sharpening | T-1 | 150x3x32 | 21A80L/M5V | 4460 | 12.09 |
| Saw Sharpening | T-1 | 150x3.5x32 | 21A80L/M5V | 4460 | 12.09 |
| Saw Sharpening | T-1 | 150x4x32 | 21A80L/M5V | 4460 | 12.09 |
| Saw Sharpening | T-1 | 150x5x32 | 21A80L/M5V | 4460 | 12.09 |
| Tool & Cutter | T-1 | 150x6x31.75 | 19A-60-K7V | 4460 | 12.10 |
| Optical Profile | T-1 | 150x6x31.75 | 19A-100-K7V | 4460 | 12.10 |
| Tool & Cutter | T-1 | 150x6x32 | 21A80L/M5V | 4460 | 13.77 |
| Tool & Cutter | T-1 | 150x6x31.75 | 24C-120-K5V | 4460 | 14.80 |
| Tool & Cutter | T-1 | 150x6x31.75 | 15A-60-M5V | 4460 | 11.30 |
| Off Hand | T-1 | 150x13x31.75 | 15A-36-P5V | 4460 | 14.44 |
| Off Hand | T-1 | 150x13x31.75 | 15A-46-M5V | 4460 | 14.44 |
| Off Hand | T-1 | 150x13x31.75 | 15A-46-P5V | 4460 | 14.44 |
| Off Hand | T-1 | 150x13x31.75 | 15A-60-M5V | 4460 | 14.44 |
| Off Hand | T-1 | 150x13x31.75 | 15A-60-P5V | 4460 | 14.44 |
| Off Hand | T-1 | 150x13x31.75 | 15A-100-M5V | 4460 | 14.44 |
| Tool & Cutter | T-1 | 150x13x31.75 | 19A-46-K7V | 4460 | 15.12 |
| Tool & Cutter | T-1 | 150x13x31.75 | 19A-60-K7V | 4460 | 15.12 |
| Tool & Cutter | T-1 | 150x13x31.75 | 19A-100-K5V | 4460 | 15.12 |
| Tool & Cutter | T-1 | 150x13x31.75 | 21A-46/54-J5V | 4460 | 16.46 |
| Off Hand | T-1 | 150x13x31.75 | 24C-46-L6V | 4460 | 18.48 |
| Tool & Cutter | T-1 | 150x13x31.75 | 24C-60-J5V | 4460 | 18.48 |
| Surface Grinding | T-1 | 150x13x31.75 | 24C-80-J5V | 4460 | 18.48 |
| Tool & Cutter | T-1 | 150x13x31.75 | 24C-120-J5V | 4460 | 18.48 |
| Off Hand | T-1 | 150x16x31.75 | 15A-36-P5V | 4460 | 17.46 |

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Discounts apply as page 2



| APPLICATION | TYPE No. | SIZE | GRIT & GRADE | SPEED (RPM) | PRICE EACH (£) |
|-----------------|----------|--------------|----------------|-------------|----------------|
| Off Hand | T-1 | 150x16x31.75 | 15A-46-M5V | 4460 | 17.46 |
| Off Hand | T-1 | 150x16x31.75 | 15A-60-M5V | 4460 | 17.46 |
| Off Hand | T-1 | 150x16x31.75 | 15A-46-P5V | 4460 | 17.46 |
| Off Hand | T-1 | 150x16x31.75 | 15A-60-P5V | 4460 | 17.46 |
| Off Hand | T-1 | 150x16x31.75 | 24C-60-J5V | 4460 | 22.08 |
| Off Hand | T-1 | 150x16x31.75 | 24C-100-J5V | 4460 | 22.08 |
| Off Hand | T-1 | 150x20x31.75 | 15A-36-P5V | 4460 | 17.46 |
| Off Hand | T-1 | 150x20x31.75 | 15A-46-N5V | 4460 | 17.46 |
| Off Hand | T-1 | 150x20x31.75 | 15A-46-P5V | 4460 | 17.46 |
| Off Hand | T-1 | 150x20x31.75 | 15A-60-M5V | 4460 | 17.46 |
| Off Hand | T-1 | 150x20x31.75 | 15A-60-P5V | 4460 | 17.46 |
| Tool & Cutter | T-1 | 150x20x31.75 | 19A-46-K6V | 4460 | 18.15 |
| Tool & Cutter | T-1 | 150x20x31.75 | 19A-60-K6V | 4460 | 18.15 |
| Off Hand | T-1 | 150x20x31.75 | 24C-46-L5V | 4460 | 22.08 |
| Off Hand | T-1 | 150x20x31.75 | 24C-60-J6V | 4460 | 22.08 |
| Off Hand | T-1 | 150x20x31.75 | 24C-100-J5V | 4460 | 22.08 |
| Off Hand | T-1 | 150x25x31.75 | 15A-36-P5V | 4460 | 20.24 |
| Off Hand | T-1 | 150x25x31.75 | 15A-60-N5V | 4460 | 20.24 |
| Tool & Cutter | T-1 | 180x6x31.75 | 19A-60-K7V | 4780 | 14.38 |
| Tool & Cutter | T-1 | 180x6x31.75 | 19A-80-K7V | 4780 | 14.38 |
| Diaform | T-1 | 180x6x31.75 | 19A-100-G7V | 4780 | 14.38 |
| Tool & Cutter | T-1 | 180x6x31.75 | 19A-100-K7V | 4780 | 14.38 |
| Optical Profile | T-1 | 180x6x31.75 | 2A150/1L9V35T4 | 4780 | 20.34 |
| Optical Profile | T-1 | 180x6x31.75 | 24C-100-J5V | 4780 | 17.30 |
| Tool & Cutter | T-1 | 180x13x31.75 | 19A-46-K7V | 4780 | 18.16 |

Standard Stock - Plain & Recessed Grinding Wheels

Discounts apply as page 2



| APPLICATION | TYPE No. | SIZE | GRIT & GRADE | SPEED (RPM) | PRICE EACH (£) |
|------------------|----------|--------------|--------------|-------------|----------------|
| Tool & Cutter | T-1 | 180x13x31.75 | 19A-60-K7V | 4780 | 18.16 |
| Tool & Cutter | T-1 | 180x13x31.75 | 19A-80-K7V | 4780 | 18.16 |
| Diaform | T-1 | 180x13x31.75 | 19A-100-H7V | 4780 | 18.16 |
| Diaform | T-1 | 180x13x31.75 | 19A-100-G7V | 4780 | 18.16 |
| Surface Grinding | T-1 | 180x13x31.75 | 19A-100-K5V | 4780 | 18.16 |
| Tool & Cutter | T-1 | 180x13x31.75 | 24C-46-J6V | 4780 | 22.10 |
| Tool & Cutter | T-1 | 180x13x31.75 | 24C-60-J5V | 4780 | 22.10 |
| Tool & Cutter | T-1 | 180x13x31.75 | 24C-100-J6V | 4780 | 22.10 |
| Off Hand | T-1 | 180x16x31.75 | 15A-46-N5V | 3710 | 22.42 |
| Off Hand | T-1 | 180x16x31.75 | 15A-60-N5V | 3710 | 22.42 |
| Off Hand | T-1 | 180x16x31.75 | 19A-60-1K6V | 4780 | 24.47 |
| Off Hand | T-1 | 180x20x31.75 | A-36-P5V | 3710 | 22.84 |
| Off Hand | T-1 | 180x20x31.75 | 15A-46-N5V | 3710 | 22.84 |
| Off Hand | T-1 | 180x20x31.75 | 15A-60-N5V | 3710 | 22.84 |
| Surface Grinding | T-1 | 180x20x31.75 | 19A-46-K7V | 4780 | 23.80 |
| Surface Grinding | T-1 | 180x20x31.75 | 19A-60-K7V | 4780 | 23.80 |
| Diaform | T-1 | 180x20x31.75 | 19A-100-G6V | 4780 | 23.80 |
| Surface Grinding | T-1 | 180x20x31.75 | 21A-46I/J5V | 4780 | 27.16 |
| Tool & Cutter | T-1 | 180x20x31.75 | 24C-60-J5V | 4780 | 27.68 |
| Surface Grinding | T-1 | 180x20x31.75 | 24C-100-J5V | 4780 | 27.68 |

Standard Stock - Plain & Recessed Grinding Wheels

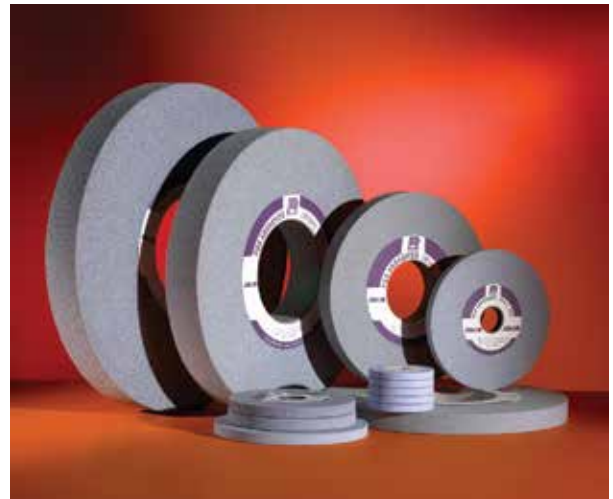
Discounts apply as page 2



| APPLICATION | TYPE No. | SIZE | GRIT & GRADE | SPEED (RPM) | PRICE EACH (£) |
|------------------------|----------|--------------------------------|---------------------------------|-------------|----------------|
| Off Hand | T-1 | 180x25x31.75 | 15A-36-P5V | 3710 | 25.33 |
| Off Hand | T-1 | 180x25x31.75 | 15A-46-N5V | 3710 | 25.33 |
| Off Hand | T-1 | 180x25x31.75 | A-60-N5V | 3710 | 25.33 |
| Surface Grinding | T-1 | 180x25x31.75 | 24C-60-J5V | 4780 | 32.34 |
| Off Hand | T-1 | 180x25x31.75 | 24C-100-J5V | 4780 | 32.34 |
| Brierley Drill Grinder | T-5 | 180x25x25.4 R/O/S 95x6 | 52A-46-K6V35 / 52A-100-L8V35 | 3710 | 48.00 |
| Surface Grinding | T-5 | 180x25x31.75 R/O/S 105x12.7 | 19A-46-K7V | 4780 | 29.12 |
| Surface Grinding | T-5 | 180x25x31.75 R/O/S 105x12.7 | 19A-60-K7V | 4780 | 29.12 |
| Diaform | T-5 | 180x25x31.75 R/O/S 105x13 | 19A-100-H6V | 4780 | 29.12 |
| Surface Grinding | T-5 | 180x25x31.75 R/O/S 105x13 | 24C-60-J5V | 4780 | 35.54 |
| Surface Grinding | T-5 | 180x40x31.75 R/O/S 105x20 | 19A-60-K5V | 4780 | 38.21 |
| Saw Sharpening | T-1 | 200x1.5x32 | 21A-80-M5V | 3350 | 17.02 |
| Saw Sharpening | T-1 | 200x2x32 | 21A-80-L/M5V | 3350 | 17.02 |
| Saw Sharpening | T-1 | 200x2.5x32 | 21A-80-L/M5V | 3350 | 17.02 |
| Saw Sharpening | T-1 | 200x3x32 | 21A-80-L/M5V | 3350 | 17.02 |
| Saw Sharpening | T-1 | 200x4x32 | 21A-80-L/M5V | 3350 | 17.02 |
| Surface Grinding | T-1 | 200x6x31.75 | 19A-60-K7V | 4300 | 17.66 |
| Saw Sharpening | T-1 | 200x6x31.75 | A54/3L6V35 | 3350 | 20.02 |

Standard Stock - Plain & Recessed Grinding Wheels

Discounts apply as page 2



| APPLICATION | TYPE No. | SIZE | GRIT & GRADE | SPEED (RPM) | PRICE EACH (£) |
|------------------|----------|--------------|----------------|-------------|----------------|
| Saw Sharpening | T-1 | 200x10x31.75 | A54/3L6V35 | 3340 | 23.15 |
| Saw Sharpening | T-1 | 200x13x31.75 | 15A-54-N5V | 3340 | 20.94 |
| Off Hand | T-1 | 200x13x31.75 | 15A-60-M5V | 3340 | 20.94 |
| Saw Sharpening | T-1 | 200x13x31.75 | A54/3L6V35 | 3340 | 25.87 |
| Surface Grinding | T-1 | 200x13x31.75 | 19A-46-1K7V | 4300 | 20.98 |
| Surface Grinding | T-1 | 200x13x31.75 | 19A-60-1K7V | 4300 | 20.98 |
| Surface Grinding | T-1 | 200x13x31.75 | 19A-100-K6V | 4300 | 20.98 |
| Saw Sharpening | T-1 | 200x13x31.75 | 21A-60-N5VTA | 4300 | 21.90 |
| Off Hand | T-1 | 200x20x31.75 | 15A-36-P5V | 3340 | 26.36 |
| Off Hand | T-1 | 200x20x31.75 | 15A-46-M5V | 3340 | 26.36 |
| Off Hand | T-1 | 200x20x31.75 | 15A-46-P5V | 3340 | 26.36 |
| Off Hand | T-1 | 200x20x31.75 | 15A-60-M5V | 3340 | 26.36 |
| Off Hand | T-1 | 200x20x31.75 | 15A-60-P5V | 3340 | 26.36 |
| Surface Grinding | T-1 | 200x20x31.75 | 19A-46-K7V | 4300 | 27.59 |
| Surface Grinding | T-1 | 200x20x31.75 | 19A-60-K7V | 4300 | 27.59 |
| Off Hand | T-1 | 200x20x31.75 | 24C-46-L5V | 4300 | 33.71 |
| Off Hand | T-1 | 200x20x31.75 | 24C-60-K5V | 4300 | 33.71 |
| Off Hand | T-1 | 200x20x31.75 | 39C-80-J5V | 3820 | 33.71 |
| Surface Grinding | T-1 | 200x20x31.75 | 24C-100-J5V | 4300 | 33.71 |
| Off Hand | T-1 | 200x22x31.75 | 15A-36-P5V | 3340 | 32.13 |
| Off Hand | T-1 | 200x22x31.75 | 15A-60-N5V | 3340 | 32.13 |
| Off Hand | T-1 | 200x22x31.75 | 24C-60-J6V | 4300 | 46.36 |
| Off Hand | T-1 | 200x22x31.75 | SCG-100-I4V400 | 4300 | 46.36 |
| Off Hand | T-1 | 200x25x31.75 | 15A-36-P5V | 3340 | 29.55 |
| Off Hand | T-1 | 200x25x31.75 | 15A-46-M5V | 3340 | 29.55 |
| Off Hand | T-1 | 200x25x31.75 | 15A-46-P5V | 3340 | 29.55 |
| Off Hand | T-1 | 200x25x31.75 | 15A-60-M5V | 3340 | 29.55 |
| Off Hand | T-1 | 200x25x31.75 | 15A-60-P5V | 3340 | 29.55 |

Standard Stock - Plain & Recessed Grinding Wheels

Discounts apply as page 2



| APPLICATION | TYPE No. | SIZE | GRIT & GRADE | SPEED (RPM) | PRICE EACH (£) |
|------------------|----------|--------------|----------------|-------------|----------------|
| Off Hand | T-1 | 200x25x31.75 | 15A-100-M5V | 3340 | 29.55 |
| Surface Grinding | T-1 | 200x25x31.75 | 19A-46-K6V | 4300 | 32.56 |
| Surface Grinding | T-1 | 200x25x31.75 | 19A-60-K6V | 4300 | 32.56 |
| Off Hand | T-1 | 200x25x31.75 | 24C-46-L5V | 3340 | 39.62 |
| Off Hand | T-1 | 200x25x31.75 | 24C-60-K5V | 3340 | 39.62 |
| Off Hand | T-1 | 200x25x31.75 | 24C-80-J5V | 3340 | 39.62 |
| Off Hand | T-1 | 200x25x31.75 | 24C-100-J8V | 3340 | 39.62 |
| Saw Sharpening | T-1 | 200x32x31.75 | 15A-36-P5V | 3350 | 48.27 |
| Saw Sharpening | T-1 | 200x32x31.75 | 15A-60-N5V | 3350 | 48.27 |
| Ring Wheel | T-2 | 200x90x160 | AS336/46G/IVSP | 3340 | 162.18 |
| Ring Wheel | T-2 | 200x90x160 | WAB-46-GVSP | 3340 | 109.71 |
| Profile Grinding | T-1 | 225x5x60 | MA-100-I6V | 3340 | 16.66 |
| Profile Grinding | T-1 | 225x5x60 | MA-60-I6V | 3340 | 16.66 |
| Profile Grinding | T-1 | 225x5x60 | WA-60-I6V | 3340 | 16.66 |
| Profile Grinding | T-1 | 230x5x31.75 | WA-60-I6V | 3340 | 16.66 |
| Profile Grinding | T-1 | 230x5x31.75 | MA-60-I6V | 3340 | 16.66 |
| Profile Grinding | T-1 | 230x5x31.75 | MA-100-I6V | 3340 | 16.66 |
| Profile Grinding | T-1 | 230x5x31.75 | 19A-54-I5V | 3340 | 24.25 |
| Profile Grinding | T-1 | 230x5x31.75 | RA-54-J5V | 3340 | 14.55 |
| Saw Sharpening | T-1 | 250x2.5x32 | 21A-80-L/M5V | 2670 | 22.39 |
| Saw Sharpening | T-1 | 250x3x32 | 21A-80-L/M5V | 2670 | 22.39 |
| Saw Sharpening | T-1 | 250x3.5x32 | 21A-80-L/M5V | 2670 | 22.39 |
| Saw Sharpening | T-1 | 250x4x32 | 21A-80-L/M5V | 2670 | 22.39 |
| Saw Sharpening | T-1 | 250x6x31.75 | A54/3L6V35 | 2670 | 27.34 |
| Saw Sharpening | T-1 | 250x10x31.75 | A54/3L6V35 | 2670 | 28.37 |
| Saw Sharpening | T-1 | 250x10x40 | 2GA80/3011B33 | 2670 | 61.31 |

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| APPLICATION | TYPE No. | SIZE | GRIT & GRADE | SPEED (RPM) | PRICE EACH (£) |
|------------------|----------|--------------|---------------|-------------|----------------|
| Saw Sharpening | T-1 | 250x12x40 | 2GA80/3011B33 | 2670 | 61.31 |
| Saw Sharpening | T-1 | 250x13x31.75 | 21A-60-N5VTA | 2670 | 30.20 |
| Saw Sharpening | T-1 | 250x13x31.75 | 20A-46-L7V | 2670 | 34.74 |
| Saw Sharpening | T-1 | 250x13x31.75 | A54/3L6V35 | 2670 | 36.78 |
| Cylindrical | T-1 | 250x13x76.2 | 19A-60-K7V | 2670 | 30.20 |
| Cylindrical | T-1 | 250x13x76.2 | 19A-80-K6V | 2670 | 30.20 |
| Cylindrical | T-1 | 250x13x76.2 | 19A-100-K7V | 2670 | 30.20 |
| Saw Sharpening | T-1 | 250x20x31.75 | 20A-46-L7V | 2670 | 44.31 |
| Cylindrical | T-1 | 250x20x76.2 | 19A-46-K7V | 2670 | 40.46 |
| Cylindrical | T-1 | 250x20x76.2 | 19A-60-K7V | 2670 | 40.46 |
| Cylindrical | T-1 | 250x20x76.2 | 21A-46/54-J8V | 2670 | 44.49 |
| Saw Sharpening | T-1 | 250x25x31.75 | 19A-46-K7V | 2670 | 47.13 |
| Off Hand | T-1 | 250x25x31.75 | 15A-24-R5V | 2670 | 44.03 |
| Off Hand | T-1 | 250x25x31.75 | 15A-36-P5V | 2670 | 44.03 |
| Off Hand | T-1 | 250x25x31.75 | 15A-46-P5V | 2670 | 44.03 |
| Off Hand | T-1 | 250x25x31.75 | 15A-60-M5V | 2670 | 44.03 |
| Off Hand | T-1 | 250x25x31.75 | 15A-60-P5V | 2670 | 44.03 |
| Off Hand | T-1 | 250x25x31.75 | 24C-46-K5V | 2670 | 56.28 |
| Off Hand | T-1 | 250x25x31.75 | 24C-60-K5V | 2670 | 56.28 |
| Off Hand | T-1 | 250x25x31.75 | 24C-80-K5V | 2670 | 56.28 |
| Off Hand | T-1 | 250x25x31.75 | 24C-100-J5V | 2670 | 56.28 |
| Off Hand | T-1 | 250x25x31.75 | 20A-46-L7V | 2670 | 48.37 |
| Surface Grinding | T-1 | 250x25x50.8 | 19A-46-H5V | 3440 | 46.10 |
| Surface Grinding | T-1 | 250x25x50.8 | 19A-46-K5V | 3440 | 46.10 |
| Surface Grinding | T-1 | 250x25x50.8 | 19A-60-K5V | 3440 | 46.10 |
| Surface Grinding | T-1 | 250x25x50.8 | 21A-46/54-J8V | 3440 | 50.20 |
| Cylindrical | T-1 | 250x25x76.2 | 51A-46-K5VTA | 3440 | 50.20 |
| Cylindrical | T-1 | 250x25x76.2 | 52A-70/3K7V35 | 3440 | 58.41 |
| Cylindrical | T-1 | 250x25x76.2 | 17A-80-M5V | 3440 | 46.72 |
| Surface Grinding | T-1 | 250x25x76.2 | 19A-46-K7V | 3440 | 44.47 |

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| APPLICATION | TYPE No. | SIZE | GRIT & GRADE | SPEED (RPM) | PRICE EACH (£) |
|------------------|----------|--------------|-----------------|-------------|----------------|
| Surface Grinding | T-1 | 250x25x76.2 | 19A-60-K7V | 3440 | 44.47 |
| Cylindrical | T-1 | 250x25x76.2 | 19A-80-K7V | 3440 | 44.47 |
| Surface Grinding | T-1 | 250x25x76.2 | 19A-100-K7V | 3440 | 44.47 |
| Tool Room | T-1 | 250x25x76.2 | 20A-46-H12VP | 3440 | 55.29 |
| Tool Room | T-1 | 250x25x76.2 | 21A-46/54-J8V | 3440 | 50.20 |
| Tool Room | T-1 | 250x25x76.2 | 39C-46-K5V | 3060 | 56.89 |
| Tool Room | T-1 | 250x25x76.2 | 24C-60-J5V | 3440 | 56.89 |
| Tool Room | T-1 | 250x25x76.2 | 24C-100-J5V | 3440 | 56.89 |
| Off hand | T-1 | 250x40x31.75 | 15A-36-P5V | 2670 | 60.59 |
| Off hand | T-1 | 250x40x31.75 | 15A-60-P5V | 2670 | 60.59 |
| Surface Grinding | T-1 | 250x40x76.2 | 19A-46-K5V | 3440 | 67.06 |
| Surface Grinding | T-1 | 250x50x76.2 | 19A-46-K6V | 3440 | 84.85 |
| Surface Grinding | T-1 | 250x50x76.2 | 21A-46/54-H5V | 3440 | 77.34 |
| Surface Grinding | T-1 | 300x13x127 | 19A-60-K6V | 2870 | 40.05 |
| Surface Grinding | T-1 | 300x13x127 | 19A-80-K6V | 2870 | 40.05 |
| Cylindrical | T-1 | 300x13x127 | 51A-60/80-K6V | 2230 | 59.10 |
| Surface Grinding | T-1 | 300x25x76.2 | 21A-46/54-J8V | 2870 | 63.48 |
| Cylindrical | T-1 | 300x25x127 | HK3/NK-60-K6V27 | 2230 | 76.78 |
| Cylindrical | T-1 | 300x25x127 | 7A80/2K7V365 | 2230 | 67.06 |
| Cylindrical | T-1 | 300x25x127 | HK-80-L5V42 | 2230 | 76.78 |
| Cylindrical | T-1 | 300x25x127 | 7A54/7K7V35 | 2230 | 73.12 |
| Cylindrical | T-1 | 300x25x127 | 52A70/3K7V35 | 2230 | 67.06 |
| Cylindrical | T-1 | 300x25x127 | 51A-46-1K5V | 2230 | 70.42 |
| Cylindrical | T-1 | 300x25.4x127 | 17A-60-K5V | 2230 | 70.42 |
| Cylindrical | T-1 | 300x25x127 | 17A-60-L5V | 2230 | 70.42 |
| Cylindrical | T-1 | 300x25x127 | 15A-60-M5V | 2230 | 59.15 |
| Cylindrical | T-1 | 300x25x127 | 19A-46-K6V | 2870 | 63.51 |
| Surface Grinding | T-1 | 300x25x127 | 19A-60-K6V | 2870 | 63.51 |
| Surface Grinding | T-1 | 300x25x127 | 19A-60-J6V | 2870 | 63.51 |
| Cylindrical | T-1 | 300x25x127 | 19A-80-K6V | 2870 | 63.51 |
| Surface Grinding | T-1 | 300x25x127 | 19A-100-K5V | 2870 | 63.51 |

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Discounts apply as page 2



| APPLICATION | TYPE No. | SIZE | GRIT & GRADE | SPEED (RPM) | PRICE EACH (£) |
|------------------|----------|--------------|------------------|-------------|----------------|
| Cylindrical | T-1 | 300x25x127 | 24C-46-J5V | 2870 | 78.67 |
| Cylindrical | T-1 | 300x25x127 | 39C-46-J6V | 2550 | 78.67 |
| Cylindrical | T-1 | 300x25x127 | 24C-46-M5V | 2870 | 78.67 |
| Cylindrical | T-1 | 300x25x127 | 24C-60-J5V | 2870 | 78.67 |
| Cylindrical | T-1 | 300x25x127 | 39C-60-J6V | 2550 | 78.67 |
| Cylindrical | T-1 | 300x25x127 | 24C-60/80-K5V | 2870 | 78.67 |
| Cylindrical | T-1 | 300x25x127 | 39C-80-J6V | 2870 | 78.67 |
| Cylindrical | T-1 | 300x25x127 | 24C-80-K6V | 2870 | 78.67 |
| Cylindrical | T-1 | 300x25x127 | 24C-100-J5V | 2870 | 78.67 |
| Cylindrical | T-1 | 300x25x127 | 39C-100-J6V | 2870 | 78.67 |
| Cylindrical | T-1 | 300x25x127 | 17A-60-L5V | 2230 | 70.42 |
| Cylindrical | T-1 | 300x25x127 | 51A-46-1K5V | 2230 | 70.42 |
| Off Hand | T-1 | 300x40x31.75 | 15A-24-R5V | 2230 | 83.74 |
| Off Hand | T-1 | 300x40x31.75 | 15A-30-R5V | 2230 | 83.74 |
| Off Hand | T-1 | 300x40x31.75 | 15A-36-P5V | 2230 | 83.74 |
| Off Hand | T-1 | 300x40x31.75 | A-46-N5VCA | 2230 | 83.74 |
| Off Hand | T-1 | 300x40x31.75 | 15A-46-P5V | 2230 | 83.74 |
| Off Hand | T-1 | 300x40x31.75 | 15A-60-M5V | 2230 | 83.74 |
| Off Hand | T-1 | 300x40x31.75 | 15A-60-P5V | 2230 | 83.74 |
| Off Hand | T-1 | 300x40x31.75 | 39C60L5V | 2230 | 107.14 |
| Off Hand | T-1 | 300x40x101.6 | A-36-P6V | 2230 | 83.74 |
| Off Hand | T-1 | 300x40x101.6 | A-60-M6V | 2230 | 83.74 |
| Cylindrical | T-5 | 300x40x127 | 24C-60-K6V | 2870 | 126.41 |
| | | R/O/S 190x13 | | | |
| Cylindrical | T-5 | 300x40x127 | 17A-60-1K6V | 2230 | 116.82 |
| | | R/O/S 193x13 | inc. 25% 80 grit | | |
| Cylindrical | T-5 | 300x40x127 | 17A-60-L6V | 2230 | 116.82 |
| | | R/O/S 193x13 | | | |
| Cylindrical | T-5 | 300x40x127 | 51A-60-1K6V | 2230 | 123.72 |
| | | R/O/S 193x13 | | | |
| Cylindrical | T-5 | 300x40x127 | 51A-46-K6V | 2230 | 111.18 |
| | | R/O/S 193x13 | | | |
| Surface Grinding | T-5 | 300x40x127 | 19A-46-K6V | 2870 | 96.42 |
| | | R/O/S 193x13 | | | |
| Surface Grinding | T-5 | 300x40x127 | 19A-60-K6V | 2870 | 96.42 |
| | | R/O/S 193x13 | | | |
| Cylindrical | T-5 | 300x40x127 | 17A-60-L5V | 2230 | 93.04 |
| | | R/O/S 193x13 | | | |
| Off Hand | T-1 | 300x50x31.75 | 15A-24-R5V | 2230 | 108.38 |
| Off Hand | T-1 | 300x50x31.75 | A-36-P5V | 2230 | 108.38 |
| Off Hand | T-1 | 300x50x31.75 | 15A-46-P5V | 2230 | 108.38 |
| Off Hand | T-1 | 300x50x31.75 | 15A-60-P5V | 2230 | 108.38 |
| Off Hand | T-1 | 300x50x31.75 | 24C-60-L5V | 2230 | 138.47 |

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Discounts apply as page 2



| APPLICATION | TYPE No. | SIZE | GRIT & GRADE | SPEED (RPM) | PRICE EACH (£) |
|------------------|----------|-------------------------------|--|-------------|----------------|
| Surface Grinding | T-1 | 300x50x76.2 | 21A-46/54-J8V | 2870 | 113.39 |
| Cylindrical | T-1 | 300x50x127 | 51A-601-K6V | 2230 | 129.67 |
| Cylindrical | T-1 | 300x50x127 | 51A-60-L6V | 2230 | 129.67 |
| Surface Grinding | T-1 | 300x50x127 | 19A-46-K6V | 2870 | 113.39 |
| Surface Grinding | T-1 | 300x50x127 | 19A-60-K6V | 2870 | 113.39 |
| Cylindrical | T-5 | 300x50x127 R/O/S 200x25 | 19A-60-K6V | 2870 | 124.70 |
| Centreless | T-5 | 300x63x127 R/O/S 193x16 | 15A-60-M5V (6mm) H/F/O/S 15A-80-Q5V | 2230 | 173.51 |
| Centreless | T-5 | 300x63x127 R/O/S 193x16 | 24C-60-L7V | 2230 | 214.83 |
| Centreless | T-5 | 300x63x127 R/O/S 193x16 | 15A-60-M5V | 2230 | 144.59 |
| Centreless | T-1 | 300x76.2x101.6 | 15A-60-M5V | 2230 | 155.97 |
| Centreless | T-1 | 300x76.2x101.6 | 17A-60-L6V | 2230 | 155.98 |
| Centreless | T-1 | 300x76.2x101.6 | 24C-60-L5V | 2230 | 199.22 |
| Centreless | T-1 | 300x101.6x127 | 15A-60-L5V | 2230 | 206.50 |
| Centreless | T-7 | 300x125x177.8 | 19A-60-M5V | 2230 | 282.49 |
| | | R/B/S 210x22 | | 2230 | 339.02 |
| Centreless | T-7 | 300x125x177.8 R/B/S 210x22 | 15A-60-L5V (10mm) H/F/O/S 15A-100-P5V | 2230 | 453.21 |
| Centreless | T-7 | 300x125x177.8 R/B/S 210x22 | C-60/3L7V60 | 2230 | 83.22 |
| Cylindrical | T-1 | 356x25x127 | 51A-46-K5VTA | 2460 | 83.22 |
| Cylindrical | T-1 | 356x25x127 | 51A-60-1K6V | 2460 | 86.55 |
| Cylindrical | T-1 | 356x25x127 | 17A-60-L5V | 1910 | 82.43 |
| Surface Grinding | T-1 | 356x25x127 | 19A-46-K6V | 2460 | 83.07 |
| Cylindrical | T-1 | 356x25x127 | 19A-60-K6V | 2460 | 83.07 |
| Cylindrical | T-1 | 356x25x127 | 24C-60-J5V | 2460 | 101.54 |
| Cylindrical | T-1 | 356x25x127 | 24C-100-J6V | 2460 | 101.54 |
| Cylindrical | T-5 | 356x40x127 | 51A-46.1K6V | 2460 | 152.04 |
| | | R/O/S 200x13 | | | |
| Cylindrical | T-5 | 356x40x127 R/O/S 200x13 | 51A-60.1K6V | 2460 | 152.04 |
| Cylindrical | T-5 | 356x40x127 R/O/S 200x13 | 19A-46-K6V | 2460 | 128.02 |
| Cylindrical | T-5 | 356x40x127 R/O/S 200x13 | 19A-60-K6V | 2460 | 128.02 |
| Off Hand | T-1 | 356x50x31.75 | 15A-24R5V | 1910 | 143.03 |

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Discounts apply as page 2



| APPLICATION | TYPE No. | SIZE | GRIT & GRADE | SPEED (RPM) | PRICE EACH (£) |
|-------------------|----------|-----------------|--------------|-------------|----------------|
| Off Hand | T-1 | 356x50x31.75 | 15A-36-P5V | 1910 | 143.03 |
| Off Hand | T-1 | 356x50x31.75 | A-46-PV | 1910 | 143.03 |
| Off Hand | T-1 | 356x50x31.75 | 15A-60-M5V | 1910 | 143.03 |
| Off Hand | T-1 | 356x50x31.75 | 15A-60-P5V | 1910 | 143.03 |
| Off Hand | T-1 | 356x50x31.75 | 24C-60-L5V | 1910 | 182.70 |
| Off Hand | T-1 | 356x50x31.75 | 39C-60-L5V | 1910 | 182.70 |
| Off Hand | T-1 | 356x50x101.6 | 24C-60-L5V | 1910 | 182.70 |
| Off Hand | T-1 | 356x50x101.6 | A-36-P5V | 1910 | 143.03 |
| Off Hand | T-1 | 356x50x101.6 | A-60-P5V | 1910 | 143.03 |
| Off Hand | T-1 | 356x50x127 | 15A-30-R5V | 1910 | 143.03 |
| CNC | T-7 | 350x50x127 | WAG-80-H8V | 2730 | 197.45 |
| External Grinding | | R/B/S 190x13 | | | |
| Off Hand | T-1 | 356x50x127 | 17A-46-J6V | 1910 | 166.09 |
| Off Hand | T-1 | 356x50x127 | C46/3J6V | 1910 | 182.70 |
| Surface Grinding | T-1 | 356x50x127 | 19A-46-H5V | 2460 | 149.60 |
| Surface Grinding | T-1 | 356x50x127 | 38A-46-KV | 2460 | 149.60 |
| Cylindrical | T-1 | 356x50x127 | 19A-60-K5V | 2460 | 149.60 |
| Surface Grinding | T-1 | 356x50x127 | 21A-46-HI2VP | 2460 | 179.49 |
| Cylindrical | T-1 | 356x50x127 | 24C-60-J6V | 1910 | 182.70 |
| Cylindrical | T-1 | 356x50x127 | 51A-60-K6VTA | 2460 | 157.38 |
| Lumsden Machine | T-9 | 356x80x127 | 15A-36-N5V | 1640 | 247.83 |
| Lumsden Machine | T-9 | 356x80x127 | 15A-46-M5V | 1640 | 247.83 |
| Lumsden Machine | T-9 | 356x80x127 | 24C-46-K8V | 1640 | 316.66 |
| Lumsden Machine | T-9 | 356x80x127 | 24C-60-K8V | 1640 | 316.66 |
| Lumsden Machine | T-9 | 356x80x127 | 24C-120-J8V | 1640 | 316.66 |
| Lumsden Machine | T-9 | 356x80x127 | 24C-220-I8V | 1640 | 342.78 |
| Centreless | T-1 | 356x101.6x203.2 | 24C-60-M5V | 1910 | 239.74 |
| Cylindrical | T-1 | 406x25x127 | 19A46K7V | 2390 | 103.82 |
| Cylindrical | T-1 | 400x25x127 | A60LV | 2390 | 131.23 |
| Cylindrical | T-1 | 400x40x127 | 21A-80-H8V | 2390 | 201.06 |
| Cylindrical | T-1 | 400x40x127 | WAG-80-H8V | 2390 | 187.31 |
| Cylindrical | T-1 | 400x40x127 | WAG-120-H13V | 2390 | 187.31 |
| Off Hand | T-1 | 406x50x31.75 | A-24-RVCA | 1670 | 183.41 |
| Off Hand | T-1 | 400x50x31.75 | A-60-P5V | 1670 | 183.41 |
| Off Hand | T-1 | 406x50x31.75 | A-60-P5V | 1670 | 183.41 |

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Discounts apply as page 2



| APPLICATION | TYPE No. | SIZE | GRIT & GRADE | SPEED (RPM) | PRICE EACH (£) |
|-----------------------------|----------|-----------------|---------------|-------------|----------------|
| Off Hand | T-1 | 406x50x38.1 | A-30-Q5V | 1670 | 183.41 |
| Off Hand | T-1 | 406x50x101.6 | 15A-30-R5V | 1670 | 183.41 |
| Cylindrical | T-1 | 406x50x127 | CN-60-K5V | 2390 | 211.10 |
| Cylindrical | T-1 | 406x50x127 | 17A-60-K5V | 2390 | 183.37 |
| Cylindrical | T-1 | 406x50x127 | 19A-46-K7V | 2390 | 191.90 |
| Cylindrical | T-1 | 406x50x127 | 19A-60-K7V | 2390 | 191.90 |
| Surface Grinding | T-1 | 406x50x127 | 21A-46-H12VP | 2390 | 230.30 |
| Cylindrical | T-1 | 406x50x127 | 24C-60-J5V | 2390 | 234.66 |
| Floor Stand Fettling | T-1 | 400x50x152.4 | A-16-QB | 2390 | 106.38 |
| Floor Stand Fettling | T-1 | 400x50x152.4 | A-16-PB | 2390 | 106.38 |
| Swing Frame Fettling | T-1 | 400x50x152.4 | 19A-20-M5B | 2390 | 98.74 |
| Swing Frame Fettling | T-1 | 400x50x152.4 | ZF14SB12550 | 2390 | 283.75 |
| Swing Frame Fettling | T-1 | 400x50x152.4 | 25ZF16QB-CA | 2390 | 283.75 |
| Cylindrical | T-1 | 457x50x203.2 | 15A-60-L6V | 1490 | 219.51 |
| Cylindrical | T-1 | 457x50x203.2 | 24C-46/60-J6V | 1490 | 322.47 |
| Cylindrical | T-1 | 457x50x203.2 | 51A-46.1-K5V | 1490 | 241.61 |
| Cylindrical | T-1 | 457x50x203.2 | 51A-60-K5V | 1490 | 241.61 |
| Cylindrical | T-1 | 457x50x203.2 | 72A-60/3K7V35 | 1490 | 241.61 |
| Cylindrical | T-1 | 457x50x203.4 | 19A-60-K6V | 1490 | 229.74 |
| Cylindrical | T-1 | 457x50x254 | 51A-60-L6V | 1490 | 216.33 |
| Cylindrical | T-1 | 457x76.2x203.2 | 15A-60-K5V | 1490 | 331.59 |
| Cylindrical | T-1 | 457x76.2x203.2 | 51A-46-K6V | 1490 | 359.65 |
| Centreless | T-1 | 457x101.6x254 | 39C-60-MVCA | 1490 | 545.22 |
| Centreless | T-1 | 457x101.6x203.2 | 15A-60-K5V | 1490 | 410.75 |
| Cylindrical | T-1 | 457x101.6x203.2 | 17A-60-K6V | 1490 | 436.47 |
| Centreless | T-1 | 457x101.6x254 | 15A-60-L6V | 1490 | 372.45 |
| Centreless | T-1 | 457x101.6x254 | 15A-60-M6V | 1490 | 445.43 |
| Centreless | T-1 | H/F/B/S (6mm) | 15A-80-P6V | | |
| Centreless | T-1 | 457x101.6x254 | 39C-60-MVCA | 1490 | 545.22 |
| Centreless | T-1 | 450x125x254 | 39C-60-L5VCA | 1490 | 649.70 |
| Centreless | T-1 | 457x127x254 | A-60-LVCA | 1340 | 459.83 |
| Cylindrical | T-1 | 500x40x203.2 | WAG-80-H8V | 1340 | 265.32 |
| Cylindrical | T-1 | 500x40x203.2 | WAG-120-H13V | 1910 | 265.32 |
| Fettling Cast Iron Castings | T-1 | 500x63x177.8 | A/37C16RB3-50 | 1910 | 374.63 |
| Floor Stand Fettling | T-1 | 500x50x177.8 | 25ZF16QB-CA | 1910 | 214.70 |
| Fettling Cast Iron Castings | T-1 | 500x50x177.8 | C14/3QB | 1340 | 273.99 |
| Cylindrical | T-1 | 508x50x203.2 | 21A-80-H8V | 1340 | 262.17 |
| Cylindrical | T-1 | 508x50x203.2 | 15A-462-K5V | 1340 | 271.58 |
| Cylindrical | T-1 | 508x50x203.2 | 15A-60-L6V | 1340 | 271.58 |
| Cylindrical | T-1 | 508x50x203.2 | 51A-46-K6V | 1340 | 295.70 |
| Cylindrical | T-1 | 508x50x203.2 | 51A-60-J6V | 1340 | 295.70 |
| Cylindrical | T-1 | 508x50x254 | 51A-46-IK5V | 1340 | 272.99 |
| Cylindrical | T-1 | 508x50x254 | 51A-60-L6V | 1340 | 272.99 |
| Cylindrical | T-1 | 508x50x254 | 19A-60-K6V | 1340 | 262.17 |
| Cylindrical | T-1 | 500x50x304.8 | A60/3L7V | 1340 | 224.79 |
| Cylindrical | T-1 | 508x50x304.8 | 51A-601-L6V | 1340 | 259.99 |
| Cylindrical | T-1 | 508x76.2x203.2 | A60L5V | 1340 | 406.01 |
| Cylindrical | T-1 | 508x76.2x203.2 | 51A-46-K6V | 1340 | 406.01 |
| Cylindrical | T-1 | 508x76.2x203.2 | 51A-60-L6V | 1340 | 406.01 |

Standard Stock - Plain & Recessed Grinding Wheels

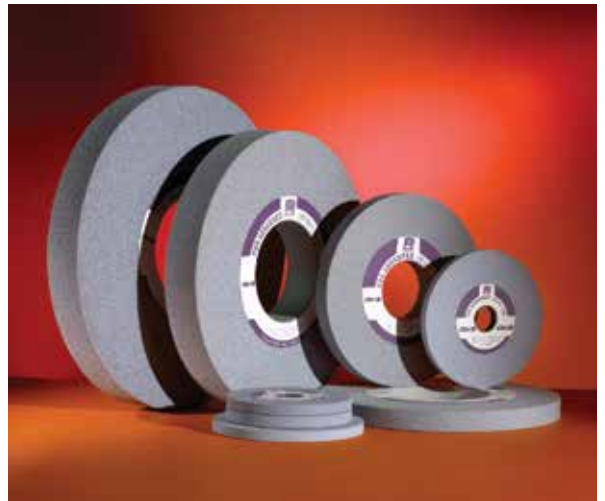
Discounts apply as page 2



| APPLICATION | TYPE No. | SIZE | GRIT & GRADE | SPEED (RPM) | PRICE EACH (£) |
|------------------|----------|----------------------------------|--------------------------|-------------|----------------|
| Cylindrical | T-1 | 508x76.2x304.8 | 15A-60-L5V | 1340 | 342.21 |
| Cylindrical | T-1 | 508x76.2x304.8 | 19A-60-K5V | 1340 | 358.05 |
| Centreless | T-1 | 508x101.6x203.2 | 17A-60-K6V | 1340 | 491.49 |
| Centreless | T-1 | 508x101.6x304.8 | 15A-60-K6V | 1340 | 442.09 |
| Centreless | T-1 | 508x101.6x304.8 | 15A-60-L6V | 1340 | 442.09 |
| Centreless | T-1 | 500x101.6x304.8 | A80L5VCA | 1340 | 442.09 |
| Centreless | T-1 | 500x101.6x304.8 | A60K5VCA | 1340 | 442.09 |
| Centreless | T-1 | 508x101.6x304.8 | A60L5VCA | 1340 | 442.09 |
| Surface Grinding | T-1 | 508x152.4x304.8 R/B/S 370x38 | 21A-60-I5V | 1340 | 682.94 |
| Surface Grinding | T-7 | 508x152.40x304.8 R/B/S 370x38 | 21A-46-H6V | 1340 | 682.94 |
| Centreless | T-1 | 508x152.4x304.8 | 15A-60-I5V | 1340 | 500.52 |
| Centreless | T-1 | 508x152.4x304.8 | 15A-60-K5V | 1340 | 500.52 |
| Centreless | T-1 | 508x152.4x304.8 | A60KVBE (Blue) | 1340 | 500.52 |
| Centreless | T-1 | 508x152.4x304.8 | 15A-60-L7V | 1340 | 500.52 |
| Centreless | T-1 | 508x152.4x304.8 | A60LVBE (Blue) | 1340 | 500.52 |
| Centreless | T-1 | 508x152.4x304.8 | A60MVBE (Blue) | 1340 | 500.52 |
| Centreless | T-1 | 508x152.4x304.8 | 15A-60-M5V | 1340 | 500.52 |
| Centreless | T-1 | 500x152.4x304.8 | A80L5VCA | 1340 | 500.52 |
| Centreless | T-1 | 508x152.4x304.8 | 15A-60-M6V 15A-80-Q5V | 1340 | 600.62 |
| Centreless | T-1 | 508x152.4x304.8 | 51A-46-J5VLT | 1340 | 711.06 |
| Centreless | T-1 | 508x152.4x304.8 | 51A-60-J5V (LT) | 1340 | 711.06 |
| Centreless | T-1 | 508x152.4x304.8 | 22C-46/2S-4B | 1340 | 503.76 |
| Centreless | T-1 | 508x152.4x304.8 | 24C-46/60-L5V | 1340 | 562.52 |
| Centreless | T-1 | 508x152.4x304.8 | 39C-46/60-L5V | 1340 | 562.52 |
| Centreless | T-1 | 508x152.4x304.8 | 24C-60-M6V | 1340 | 562.52 |
| Centreless | T-1 | 508x152.4x304.8 | 25C-46/2S4B | 1700 | 503.76 |
| Centreless | T-1 | 508x203.2x304.8 | 15A-60-I6VLT | 1340 | 669.23 |
| Centreless | T-1 | 508x203.2x304.8 | 51A-60I1K5V | 1340 | 669.23 |
| Centreless | T-1 | 508x203.2x304.8 | A60KVBE (Blue) | 1340 | 669.23 |
| Centreless | T-1 | 508x203.2x304.8 | 15A-60-L5V | 1340 | 669.23 |
| Centreless | T-1 | 508x203.2x304.8 | A60LVBE (Blue) | 1340 | 669.23 |
| Centreless | T-1 | 508x203.2x304.8 | 15A-60-M5V | 1340 | 669.23 |

Standard Stock - Plain & Recessed Grinding Wheels

Discounts apply as page 2



| APPLICATION | TYPE No. | SIZE | GRIT & GRADE | SPEED (RPM) | PRICE EACH (£) |
|----------------------|----------|------------------------------------|--------------------|-------------|----------------|
| Centreless | T-1 | 508x203.2x304.8 | 15A-60-I6V (LT) | 1340 | 637.36 |
| Centreless | T-1 | 508x203.2x304.8 | A-80-LVCA | 1340 | 637.36 |
| Centreless | T-1 | 508x203.2x304.8 | 24C-461-K5V | 1340 | 1099.48 |
| Centreless | T-1 | 508x203.2x304.8 | 39C-60-L5VCA | 1340 | 1099.48 |
| Centreless | T-1 | 508x203.2x304.8 | 24C-46-2S4B | 1340 | 910.34 |
| Centreless | T-1 | 508x203.2x304.8 | 16A-60-J5V | 1340 | 981.31 |
| Centreless | T-1 | 508x254x304.8 | 51A-601K5V | 1340 | 1075.47 |
| Cylindrical | T-1 | 600x50x203.2 | 52A54/7J7V35 | 1110 | 372.60 |
| Cylindrical | T-1 | 600x50x254 | 52A54/7J7V35 | 1110 | 372.60 |
| Centreless | T-1 | 600x50x304.8 | 52A54/7J7V35 | 1110 | 346.74 |
| Cylindrical | T-1 | 610x50x304.8 | 15A-60-K5V | 1110 | 363.93 |
| Cylindrical | T-1 | 610x50x304.8 | 19A-60-K6V | 1110 | 391.24 |
| Floor Stand Fettling | T-1 | 600x63x203.2 | A20PB350 | 1900 | 275.47 |
| Floor Stand Fettling | T-1 | 600x63x203.2 | ZF-14-QB3-125 | 1900 | 300.72 |
| Floor Stand Fettling | T-1 | 600x63x203.2 | ZF20P5B50 | 1900 | 300.74 |
| Cylindrical | T-1 | 610x76.2x304.8 | 15A-60-K5V | 1110 | 522.64 |
| Cylindrical | T-1 | 610x76.2x304.8 | 19A-60-K5V | 1110 | 561.85 |
| Centreless | T-1 | 610x101.6x304.8 | 15A-60-K5V | 1110 | 688.39 |
| Cylindrical | T-1 | 600x101.6x304.8 | A99B/A96-46/60-J9V | 1110 | 688.39 |
| Centreless | T-1 | 610x254x304.8 | 51A-601-K5V | 1110 | 1734.76 |
| Cylindrical | T-5 | 660x76.2x304.8 R/O/S 388x19 | 2A60/3J7V35 | 1110 | 650.93 |
| Cylindrical | T-5 | 660x76.2x304.8 R/O/S 388x19 | 2A60/3K7V35 | 1110 | 650.93 |
| Cylindrical | T-5 | 660x76.2x355.60 R/O/S 432x19.05 | 2A60/3J7V35 | 1110 | 650.93 |
| Cylindrical | T-5 | 660x76.2x304.8 R/O/S 388x19 | 52A54/7J7V35 | 1110 | 619.93 |
| Cylindrical | T-5 | 660x76.2x304.8 R/O/S 388x19 | C46/3J6V60 | 1110 | 898.13 |
| Cylindrical | T-1 | 750x50x304.8 | 52A54/7J7V35 | 890 | 619.93 |
| Cylindrical | T-1 | 750x76.2x304.8 | 2A60/3J6V | 890 | 929.41 |
| Cylindrical | T-1 | 750x76.2x304.8 | 52A54/7J7V35 | 890 | 920.54 |
| Cylindrical | T-1 | 750x76.2x304.8 | 19A-46/60-J6V | 890 | 798.81 |

Taper Cup Grinding Wheels

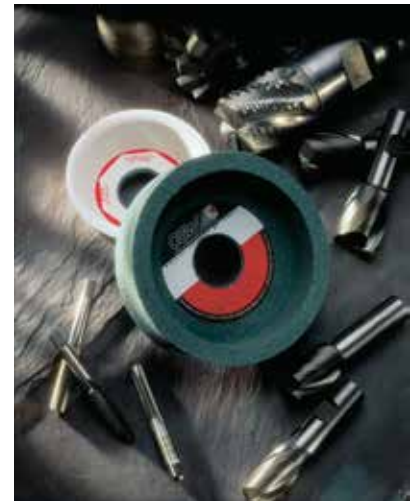
Discounts apply as page 2



| APPLICATION | TYPE No. | SIZE | GRIT & GRADE | SPEED (RPM) | PRICE EACH (£) |
|---------------|----------|---------------------------------------|--------------------------------|-------------|----------------|
| Tool & Cutter | T-11 | 80/53x32x12.7 6mm Rim 8mm Back | 19A-60-K5V | 7160 | 12.89 |
| Tool & Cutter | T-11 | 89/70x40x31.75 6mm Rim 8mm Back | 19A-60-K5V | 6360 | 14.11 |
| Tool & Cutter | T-11 | 100/71x40x31.75 8mm Rim 10mm Back | NKG-60-K5V42 | 5730 | 20.31 |
| Tool & Cutter | T-11 | 100/71x40x31.75 8mm Rim 10mm Back | 19A-46-K6V | 5730 | 17.02 |
| Tool & Cutter | T-11 | 100/71x40x31.75 8mm Rim 10mm Back | 19A-60-K6V | 5730 | 17.02 |
| Tool & Cutter | T-11 | 100/71x40x31.75 8mm Rim 10mm Back | 21A-46-I8V | 5730 | 18.60 |
| Tool & Cutter | T-11 | 100/71x40x31.75 8mm Rim 10mm Back | 21A-46/54-J8V | 5730 | 18.60 |
| Tool & Cutter | T-11 | 100/71x40x31.75 8mm Rim 10mm Back | 21A-60-K8V | 5730 | 18.60 |
| Tool & Cutter | T-11 | 100/71x40x31.75 8mm Rim 10mm Back | 2A46/1I7V35R1 | 5730 | 29.82 |
| Tool & Cutter | T-11 | 100/71x40x31.75 8mm Rim 10mm Back | 2A46/3K6V35R1 | 5730 | 29.82 |
| Tool & Cutter | T-11 | 100/71x40x31.75 8mm Rim 10mm Back | 2A60/1J7V35R1 | 5730 | 29.82 |
| Tool & Cutter | T-11 | 100/71x40x31.75 8mm Rim 10mm Back | 2A60/3K7V35R | 5730 | 29.82 |
| Tool & Cutter | T-11 | 100/71x40x31.75 8mm Rim 10mm Back | SCG-100-JOT5V40 | 5730 | 25.37 |
| Tool & Cutter | T-11 | 100/80x40x31.75 8mm Rim 12mm Back | PAH-46-K8V | 5730 | 18.60 |
| Tool & Cutter | T-11 | 125/95x45x31.75 10mm Rim 13mm Back | 2A46/1J7V35R1 *(REINFORCED) | 4580 | 41.35 |
| Tool & Cutter | T-11 | 125/95x45x31.75 10mm Rim 13mm Back | 2A60/1J7V35R1 *(REINFORCED) | 4580 | 41.35 |

Straight Cup Recessed Grinding Wheels

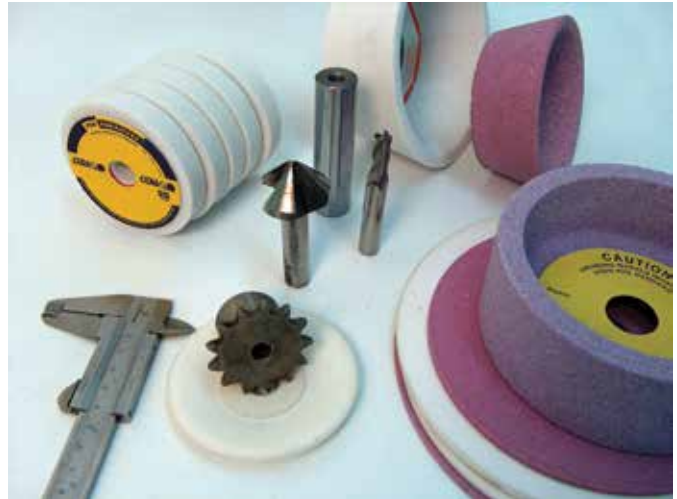
Discounts apply as page 2



| APPLICATION | TYPE No. | SIZE | GRIT & GRADE | SPEED (RPM) | PRICE EACH (£) |
|----------------------|----------|--------------------------------------|---------------|-------------|----------------|
| Bandsaw Weld Removal | T-6 | 60x38x20 10mm Rim 10mm Back | A46/3M6V35T | 12735 | 17.11 |
| Bandsaw Weld Removal | T-6 | 60x38x20 10mm Rim 10mm Back | A46/3N6V35T | 12735 | 17.11 |
| Bandsaw Weld Removal | T-6 | 60x38x20 10mm Rim 10mm Back | 4A46/3M7V35 | 12735 | 17.10 |
| Bandsaw Weld Removal | T-6 | 60x38x20 10mm Rim 10mm Back | 4A46/3N5V35 | 12735 | 17.10 |
| Tool & Cutter | T-6 | 100x50x19.85 10mm Rim 11mm Back | 2A120/1I9V | 5730 | 25.37 |
| Tool & Cutter | T-6 | 100x50x31.75 10mm Rim 11mm Back | 2A-46/3K5V | 5730 | 25.37 |
| Tool & Cutter | T-6 | 100x50x31.75 10mm Rim 11mm Back | 2A60/3K7V35 | 5730 | 25.37 |
| Tool & Cutter | T-6 | 125x40x31.75 13mm Rim 13mm Back | 2A46/3H8/6V | 4580 | 29.14 |
| Tool & Cutter | T-6 | 125x40x31.75 13mm Rim 13mm Back | 19A-46-K6V | 4580 | 29.14 |
| Tool & Cutter | T-6 | 125x50x31.75 13mm Rim 13mm Back | 2A46/3H8/6V35 | 4580 | 28.61 |
| Tool & Cutter | T-6 | 125x50x31.75 16mm Rim 13mm Back | 4A46/2K6V35T1 | 4580 | 29.76 |
| Tool & Cutter | T-6 | 150x50x31.75 13mm Rim 13mm Back | 2A46/3H8/6V | 3820 | 35.27 |
| Tool & Cutter | T-6 | 150x50x31.75 13mm Rim 13mm Back | 19A-601-K5V | 3820 | 36.68 |
| Wadkin Machine | T-6 | 165x76.2x22.23 16mm Rim 16mm Back | 2A30/HI7B10 | 3530 | 87.54 |
| Wadkin Machine | T-6 | 165x76.2x22.23 16mm Rim 16mm Back | 2A46/3J7B10 | 3530 | 87.54 |
| Facing | T-6 | 178x76.2x82.55 16mm Rim 19mm Back | 3A46/3J6B10 | 3530 | 87.54 |

Dish Grinding Wheels

Discounts apply as page 2



| APPLICATION | TYPE No. | SIZE | GRIT & GRADE | SPEED (RPM) | PRICE EACH (£) |
|---------------|----------|-----------------------------------|--------------------------------------|-------------|----------------|
| Tool & Cutter | T-12 | 150x13x31.75 8mm Rim 9mm Back | 17A-60-J5V | 4460 | 17.75 |
| Tool & Cutter | T-12 | 150x13x31.75 8mm Rim 9mm Back | 19A-46-K6V | 4460 | 18.16 |
| Tool & Cutter | T-12 | 150x13x31.75 8mm Rim 9mm Back | 19A-60-J7V | 4460 | 18.16 |
| Tool & Cutter | T-12 | 150x13x31.75 8mm Rim 9mm Back | 19A-60-K6V | 4460 | 18.16 |
| Tool & Cutter | T-12 | 150x13x31.75 8mm Rim 9mm Back | 19A120K5V | 4460 | 24.27 |
| Tool & Cutter | T-12 | 150x13x31.7 8mm Rim 9mm Back | EKW-46-K5V502MMKV++ *(REINFORCED) | 4460 | 29.78 |
| Tool & Cutter | T-12 | 150x13x31.75 8mm Rim 9mm Back | EKW-60-J6V270 (ORANGE) | 4460 | 23.48 |
| Tool & Cutter | T-12 | 150x20x31.75 10mm Rim 9mm Back | 19A-46-K5V | 3710 | 21.81 |
| Tool & Cutter | T-12 | 150x20x31.75 10mm Rim 9mm Back | EKW-60-JOT5V27 | 3710 | 25.36 |



TRACK SLICER



Gas Saw



Organization for the Safety of Abrasives



| STANDARD DIMENSIONS | | | SPECIFICATION | MAX. R.P.M. | M/S |
|---------------------|-----|------|---------------|-------------|-----|
| D | T | H | | | |
| 305mm | 3.5 | 22.2 | A24 - S - BF | 6400 | 100 |
| | | 25.4 | | | |
| 356mm | 4 | 22.2 | A24 - S - BF | 5500 | 100 |
| | | 25.4 | | | |

- The CGW Track Slicer is a fully reinforced quality rail-cutting disc.
- Fast, free cutting, up to 7 cuts per blade.
- Complies to European Standard EN 12413 and OSA (Organisation for the Safety of Abrasives).
- Price on Application

ULTRA THIN CUTTING DISCS



CGW's Ultra Thin Cutting Discs are designed and manufactured to the highest European standards.

A bonded, fully reinforced professional quality cut off disc. Iron, sulphur and chlorine free to avoid contamination during cutting.

The Ultra Thin discs present many advantages over the traditional discs and comply with all safety standards. Simple to use and the advantages can be appreciated from the first cut.



Angle Grinder

Applications include all types of **Metal and Stainless Steel work.**
Available in diameter sizes of **100, 115, 125, 180, & 230mm**
Thicknesses available **1.0, 1.6 & 2.0mm**

Advantages:

- Greater accuracy and precision in operation
 - Greater speed and ease of operation
 - A clean cut and a long life
- Reduced friction and material waste by 50%
 - Reduced effort and wear of machine

GREAT PRICES AVAILABLE

(all Ultra Thin Cutting discs are available from stocks)

- Price on Application

Flat & Depressed Centre Cutting & Grinding Discs for Steel

Discounts for mixed sizes

Minimum acceptable order value £50.00 nett



| APPLICATION | TYPE No. | SIZE | GRIT & GRADE | SPEED (RPM) | PRICE EACH (£) |
|-------------|------------------|--------------|--------------|-------------|----------------|
| Cutting | Flat | 100x3.2x16 | A 24 RBF | 15300 | 2.20 |
| Cutting | Flat | 115x1.0x22 | WA46SBF | 13300 | 1.32 |
| Cutting | Flat | 115x1.6x22 | WA36SBF | 13300 | 1.32 |
| Cutting | Flat | 115x3.2x22 | A 24 RBF | 13300 | 2.22 |
| Cutting | Flat | 125x3.2x22 | A 24 RBF | 12250 | 2.14 |
| Cutting | Flat | 180x3.2x22 | A 24 RBF | 8500 | 2.76 |
| Cutting | Flat | 230x3.2x22 | A 24 RBF | 6650 | 3.75 |
| Cutting | Flat | 305x2.6x25.4 | A 36 PBF | 5100 | 5.91 |
| Cutting | Flat | 305x3.5x25.4 | A 24 RBF | 5100 | 5.91 |
| Cutting | Flat | 356x2.6x25 | A 24 RBF | 4400 | 7.69 |
| Cutting | Flat | 356x3.2x25.4 | A 24 RBF | 4400 | 7.69 |
| Cutting | Flat | 400x4x25.4 | A 30 RBF | 3850 | 14.48 |
| Cutting | Flat | 400x4x32 | A 30 RBF | 3850 | 14.48 |
| Cutting | Flat | 457x4.5x32 | A 24 RBF | 3400 | 25.33 |
| Cutting | Depressed Centre | 100x3.2x16 | A 24 RBF | 15300 | 2.20 |
| Grinding | Depressed Centre | 102x6.4x16 | A 24 RBF | 15300 | 1.88 |
| Cutting | Depressed Centre | 115x3.2x22 | A 24 RBF | 13300 | 2.22 |
| Grinding | Depressed Centre | 115x6.4x22 | A 24 RBF | 13300 | 2.02 |
| Cutting | Depressed Centre | 125x3.2x22 | A 24 RBF | 12250 | 2.14 |
| Grinding | Depressed Centre | 125x6.5x22 | A 24 RBF | 12250 | 2.52 |
| Cutting | Depressed Centre | 180x3.2x22 | A 24 RBF | 8500 | 2.76 |
| Grinding | Depressed Centre | 180x6.4x22 | A 24 RBF | 8500 | 3.86 |
| Cutting | Depressed Centre | 230x3.2x22 | A 24 RBF | 6650 | 3.75 |
| Grinding | Depressed Centre | 230x6.4x22 | A 24 RBF | 6650 | 5.21 |

Non-Reinforced Cut-Off and Slitting Wheels

Discounts apply as page 2

| APPLICATION | TYPE | SIZE | GRIT | SPEED (RPM) | PRICE EACH (£) |
|---------------------|----------------|---------------|-------------|-------------|----------------|
| Toolroom | Non-Reinforced | 150x0.8x31.75 | 15A-80-1QB | 10190 | 4.45 |
| Toolroom | Non-Reinforced | 150x1.6x31.75 | 8A60/2P7B12 | 10190 | 5.68 |
| Toolroom | Non-Reinforced | 150x1.8x12.7 | 17A-60-NB | 10190 | 5.23 |
| Toolroom | Non-Reinforced | 150x3.4x31.75 | 15A-601-QB | 10190 | 6.93 |
| Toolroom | Non-Reinforced | 180x0.8x31.75 | 15A-801-QB | 8490 | 5.07 |
| Toolroom | Non-Reinforced | 180x1.6x31.75 | 8A60/2P7B12 | 8490 | 7.57 |
| Toolroom | Non-Reinforced | 180x1.6x31.75 | 3A-60-NPB | 8490 | 1.52 |
| Toolroom | Non-Reinforced | 180x3.4x31.75 | 15A-601-QB | 8490 | 7.54 |
| Toolroom | Non-Reinforced | 200x1.6x31.75 | 17A-60-MB | 7640 | 7.65 |
| Toolroom | Non-Reinforced | 200x1.6x31.75 | 8A60/2P7B12 | 7640 | 7.85 |
| Toolroom | Non-Reinforced | 200x1.8x31.75 | 15A-801-QB | 7640 | 6.54 |
| Production Cutting | Non-Reinforced | 250x1.7x31.75 | 15A80NB | 6110 | 8.95 |
| Production Cutting | Non-Reinforced | 250x1.8x25.4 | 15A46P/QB | 6110 | 8.95 |
| Fine Mesh | Fine Mesh | 180x0.8x31.75 | A-60-0BF | 8600 | 5.44 |
| Reinforced Slitting | Reinforced | | | | |
| Fine Mesh | Fine Mesh | 180x1.6x31.75 | A-60-0BF | 8600 | 5.54 |
| Reinforced Slitting | Reinforced | | | | |

Resin Bonded Circular Saw Sharpening Wheels

Discounts apply as page 2

| APPLICATION | TYPE | SIZE | GRIT | SPEED (RPM) | PRICE EACH (£) |
|----------------|--------------|------------|---------|-------------|----------------|
| Saw Sharpening | Resin Bonded | 150x1.6x32 | A 80 RB | 6400 | 4.67 |
| Saw Sharpening | Resin Bonded | 150x1.8x32 | A 80 RB | 6400 | 4.67 |
| Saw Sharpening | Resin Bonded | 150x2x32 | A 80 RB | 6400 | 4.67 |
| Saw Sharpening | Resin Bonded | 150x2.5x32 | A 80 RB | 6400 | 4.67 |
| Saw Sharpening | Resin Bonded | 150x3x32 | A 80 RB | 6400 | 5.01 |
| Saw Sharpening | Resin Bonded | 150x3.5x32 | A 80 RB | 6400 | 5.01 |
| Saw Sharpening | Resin Bonded | 150x4x32 | A 80 RB | 6400 | 5.01 |
| Saw Sharpening | Resin Bonded | 150x5x32 | A 80 RB | 6400 | 5.01 |
| Saw Sharpening | Resin Bonded | 150x6x32 | A 80 RB | 5600 | 5.01 |
| Saw Sharpening | Resin Bonded | 200x2x32 | A 80 RB | 5600 | 8.60 |
| Saw Sharpening | Resin Bonded | 200x2.5x32 | A 80 RB | 5600 | 8.60 |
| Saw Sharpening | Resin Bonded | 200x3x32 | A 80 RB | 5600 | 8.60 |
| Saw Sharpening | Resin Bonded | 200x4x32 | A 80 RB | 5600 | 8.60 |
| Saw Sharpening | Resin Bonded | 200x5x32 | A 80 RB | 5600 | 8.60 |

Manhattan Standard Stock Rubber Regulating Wheels for Centreless Grinding



| APPLICATION | TYPE No. | SIZE | GRIT & GRADE | SPEED (RPM) | PRICE EACH (£) |
|----------------------|----------|-----------------------------------|----------------|-------------|----------------|
| Ghiringhelli M65 | T-7 | 180x63x76.2 R/B/S 105x12.7 | A-80-RL-152-R7 | 1310 | 98.51 |
| Wickman Scrivenor | T-1 | 180x76.2x76.2 | A-80-RL-152-R7 | 1310 | 115.57 |
| Ghiringhelli M110 | T-7 | 200x101.6x127 R/B/S 105x12.7 | A-80-RL-152-R7 | 1310 | 191.13 |
| Estarta 310 | T-7 | 220x127x127 R/B/S 155x9.53 | A-80-RL-152-R7 | 1020 | 293.73 |
| BSA No.4 | T-1 | 230x101.6x69.85 | A-80-RL-152-R7 | 1020 | 226.50 |
| BSA No.7 | T-1 | 230x101.6x88.9 | A-80-RL-152-R7 | 1020 | 226.50 |
| Wickman Scrivenor | T-1 | 250x101.6x101.6 | A-80-RL-152-R7 | 920 | 266.08 |
| Wickman Scrivenor 2G | T-1 | 250x101.6x127 | A-80-RL-152-R7 | 920 | 266.08 |
| Wickman Scrivenor | T-1 | 250x127x101.6 | A-80-RL-152-R7 | 920 | 322.42 |
| Estarta | T-1 | 250x152.4x101.6 | A-80-RL-152-R7 | 920 | 395.27 |
| Estarta | T-7 | 250x152.4x139.7 R/B/S 180x25.4 | A-80-RL-152-R7 | 920 | 422.16 |
| Cincinnati | T-1 | 300x50x127 | A-80-RL-152-R7 | 760 | 200.04 |
| BSA No.8 | T-7 | 300x101.6x127 R/B/S 205x12.7 | A-80-RL-152-R7 | 760 | 362.09 |
| Wickman Scrivenor | T-1 | 300x152.4x101.6 | A-80-RL-152-R7 | 760 | 465.77 |
| Churchill | T-7 | 300x152.4x101.6 R/B/S 205x38 | A-80-RL-152-R7 | 760 | 515.15 |
| Churchill | T-7 | 300x152.4x127 R/B/S 205x38 | A-80-V7RS | 760 | 515.15 |

Manhattan Standard Stock Rubber Regulating Wheels for Centreless Grinding

Discounts per item value

| | |
|--------------------|------------|
| under £140.00 | list price |
| £141.00 to £273.00 | less 15% |
| £274.00 to £445.00 | less 21% |
| £446.00 to £604.00 | less 25% |
| £605.00 and over | less 32.5% |

If the size you require does not appear in the list please contact our sales office for an immediate quotation.

We supply rubber control wheels for every centreless grinding machine.

We can manufacture special sizes and grades to customers' specifications. Available in 80, 120, and 180 grit.

Delivery time for specials is approximately 4-5 weeks.

| APPLICATION | TYPE No. | SIZE | GRIT & GRADE | SPEED (RPM) | PRICE EACH (£) |
|----------------------|----------|---|----------------|-------------|----------------|
| Cincinnati No 2 | T-7 | 300x152.4x127 R/O/S 205x38 R/O/S 205x13 | A-80-RL-152-R7 | 760 | 515.15 |
| Wickman Scrivenor | T-1 | 300x203.2x101.6 | A-80-RL-152-R7 | 760 | 649.55 |
| Wickman Scrivenor | T-1 | 300x203.2x127 | A-80-RL-152-R7 | 760 | 649.55 |
| Cincinnati No 2 | T-7 | 300x203.2x127 R/B/S 205x38 | A-80-RL-152-R7 | 760 | 649.55 |
| BSA No 8 | T-7 | 300x203.2x127 R/O/S 205x38 R/O/S 205x90 | A-80-RL-152-R7 | 760 | 649.55 |
| Cincinnati No 2 | T-7 | 300x203.2x127 R/O/S 193x38 R/O/S 193x63 | A-80-RL-152-R7 | 760 | 649.55 |
| Cincinnati No 2 | T-7 | 300x203.2x127 R/B/S 193x38 | A-80-RL-152-R7 | 760 | 649.55 |
| Ghiringhelli | T-7 | 300x203.2x152.4 R/B/S 178x16 | A-80-RL-152-R7 | 760 | 720.79 |
| Cincinnati No 3 | T-7 | 300x254x127 * | A-80-RL-152-R7 | 760 | 811.85 |
| Lidkoping 3B | T-1 | 330x254x203.3 | A-80-RR | 760 | 641.60 |
| Cincinnati 3/300 | T-1 | 355x304.80x152.4 | A-80-RL-152-R7 | 650 | 1162.59 |
| Cincinnati Twin Grip | T-1 | 355x508x152.4 R/B/S 220x38 | A-80-RL-152-R7 | 650 | 2172.13 |
| Cincinnati No 3 | T-1 | 356x101.6x127 * | A-80-RL-152-R7 | 650 | 509.38 |
| Cincinnati No 3 | T-1 | 356x152.4x127 * | A-80-RL-152-R7 | 650 | 753.21 |
| Cincinnati No 3 | T-1 | 356x203.2x127 * | A-80-RL-152-R7 | 650 | 994.44 |
| Centreless | T-1 | 356x254x127 | A-80-RL-152-R7 | 650 | 673.68 |
| Lidkoping 4B | T-1 | 406x254x280 | A-80-TR-152-R7 | 650 | 911.00 |
| | | * Recessed as Required | | | |

Huntington Dresser Holders

| PRODUCT No. | TYPE No. | SIZE | PRICE EACH (£) |
|-------------|-----------------|------|----------------|
| HD0COMP | Holder Complete | No 0 | 27.54 |
| HD1COMP | Holder Complete | No 1 | 35.30 |
| HD2COMP | Holder Complete | No 2 | 49.93 |

Huntington Spare Sets of Cutters

| PRODUCT No. | TYPE No. | SIZE | PRICE EACH (£) |
|-----------------|-------------------------|------|----------------|
| Holder Complete | Spare Cutters (10 sets) | No 0 | 29.71 |
| Holder Complete | Spare Cutters (10 sets) | No 1 | 32.61 |
| Holder Complete | Spare Cutters (10 sets) | No 2 | 73.25 |

Standard Dressing Sticks and Blocks

Mybortin Dressers offer an economical alternative to Diamond due to their low price and proven efficiency.

| PRODUCT No. | TYPE | SIZE MM | GRADE | PRICE EACH (£) |
|-----------------|------------------|-----------|--------------------|----------------|
| DS091926B12K7V | Dressing Stick | 25x13x150 | HK100K7V420 | 14.98 |
| DS091926B15K7V | Dressing Stick | 25x13x150 | HK180K7V420 | 14.98 |
| DS092326D2D4V | Dressing Stick | 25x25x150 | Scd 20 U4V (Green) | 5.96 |
| DS092326C4TV | Dressing Stick | 25x25x150 | C30TV (Green) | 5.96 |
| DS092326F12GVP | Dressing Stick | 25x25x150 | 2A100/1F12/4V | 6.74 |
| DS092326F16GVCA | Dressing Stick | 25x25x150 | WA220GVCA (White) | 6.74 |
| DS092326F16HVCA | Dressing Stick | 25x25x150 | WA220HVCA (White) | 6.74 |
| DS092326F16IVCA | Dressing Stick | 25x25x150 | WA220IVCA (White) | 6.74 |
| DS091928Q14J6V | Dressing Stick | 25x13x200 | EKW150JOT6V270 | 12.44 |
| DS091928P10K12V | Dressing Stick | 25x13x200 | SCG80K12V5/NOM | 12.32 |
| DS062328P10E13V | Dressing Stick | 25x13x200 | C80/1E13/4V60T4 | 11.73 |
| DS092328P10K13V | Dressing Stick | 25x25x200 | SCG80/1K13V5QNOM | 17.87 |
| DS092328P10E13V | Dressing Stick | 25x25x200 | C80/1E13/4V60T4 | 17.02 |
| DS092928P10K13V | Dressing Stick | 25x50x200 | SCG80/1K13V5QNOM | 30.11 |
| DS092928P10E13V | Dressing Stick | 25x50x200 | C80/1E13/4V60T4 | 28.68 |
| DS122928P10K13V | Dressing Stick | 50x50x200 | SCG80/1K13V5QNOM | 30.34 |
| DS122928P10E13V | Dressing Stick | 50x50x200 | C80/1E13/4V60T4 | 28.90 |
| DS221522MY | Mybortin Dresser | 12x6x75 | Boron Carbide | 112.25 |

Lapport India Oilstones and Silicon Carbide Sticks/Files

A full range of India Oilstones and Silicone Carbide Sticks are available to order. Delivery 14 days from receipt of your order.

Shapes available:

Square, Triangular, Circular, Semi Circular, Flat, Combination, and Hollow Chisel.

Please specify grade when ordering:

Fine (f) / Medium (m) / Coarse (c)

Price on application

Mounted Points

Surcharges

Silicon Carbide 'A' Shape plus 20%

Resin Bonds 'W' Shape plus 10%

All Mounted Points should be ordered in quantities and multiples of 10 off per item per specification.



| GROUP | DIA. X THK. | SPINDLE | SPEC | PRICE EACH (£) |
|--------------|-------------|---------|-------------|----------------|
| A1 | 22x63 | 6x40mm | 64A46S5V | 5.01 |
| A2 | 25x32 | 6x40mm | 72A60Q5V | 3.46 |
| AS3 (mini) | 16x45 | 6x40mm | 64A46S5V | 3.46 |
| A3 | 25x70 | 6x40mm | 72A24/30R5V | 5.01 |
| A3 | 25x70 | 6x40mm | 64A46S5V | 5.01 |
| A4 | 30x30 | 6x40mm | 72A46R5V | 3.87 |
| A5 | 20x28 | 6x40mm | 64A46R5V | 2.99 |
| A5 | 20x28 | 6x40mm | 72A60Q5V | 2.99 |
| A11 | 22x45 | 6x40mm | 61A37U5V | 3.53 |
| A11 (large) | 32x50 | 6x40mm | 72A24/30R5V | 4.05 |
| A11 (maxi) | 30x50 | 6x40mm | A24/4Q5V35 | 3.94 |
| A12 | 18x30 | 6x40mm | 50A36/8R6V | 3.12 |
| A13 | 25x25 | 6x40mm | 61A36R5V | 3.76 |
| A14 | 18x22 | 6x40mm | 72A80Q5V | 3.38 |
| A15 (hard) | 6x25 | 6x40mm | 50A60/2R5V | 3.01 |
| A15 (medium) | 6x25 | 6x40mm | 61A46R3V | 3.01 |
| A21 | 25x25 | 6x40mm | 64A60Q5V | 3.38 |
| A24 | 6x20 | 6x40mm | 61A80S5V | 2.62 |
| A25 | 25 Dia. | 6x40mm | 64A60Q5V | 2.90 |
| A31 | 35x25 | 6x40mm | 61A36R5V | 4.48 |
| A32 | 25x20 | 6x40mm | 64A60Q5V | 4.20 |
| A34 | 40x10 | 6x40mm | 64A60Q5V | 4.04 |
| A35 | 25x10 | 6x40mm | 64A60Q5V | 2.73 |
| A36 | 40x10 | 6x40mm | 61A60Q5V | 3.07 |
| A37 | 30x6 | 6x40mm | 64A80Q5V | 2.68 |
| A38 | 25x25 | 6x40mm | 72A60Q5V | 2.73 |
| A39 | 20x20 | 6x40mm | 64A60Q5V | 2.73 |
| B41 | 16x16 | 6x40mm | 72A80Q5V | 2.58 |
| B42 | 13x19 | 3x30mm | 72A80Q5V | 2.45 |
| B44 | 5x10 | 3x30mm | 61A120Q5V | 1.90 |
| B52 | 10x20 | 3x30mm | 61A60Q5V | 2.45 |
| B52 | 10x20 | 3x30mm | 72A80Q5V | 2.45 |
| B53 | 8x10 | 3x30mm | 72A100Q5V | 2.58 |
| B91 | 13x16 | 3x30mm | 72A80Q5V | 3.11 |
| B92 | 6x6 | 3x30mm | 72A120Q5V | 2.33 |
| B97 | 3x10 | 3x30mm | 72A120Q5V | 2.33 |
| B121 | 13 Dia | 3x30mm | 64A80Q5V | 1.92 |
| B122 | 10 Dia | 3x30mm | 61A120Q5V | 1.95 |
| B123 | 5 Dia | 3x30mm | 61A80Q5V | 2.31 |
| B123 | 5 Dia | 3x30mm | 72A80Q5V | 2.31 |
| B131 | 13x13 | 3x30mm | 64A80Q5V | 1.88 |
| B132 | 10x13 | 3x30mm | 64A80Q5V | 1.72 |
| B135 | 6x13 | 3x30mm | 64A120Q5V | 1.88 |

Mounted Points



| GROUP | DIA. X THK. | SPINDLE | SPEC | PRICE EACH (£) |
|----------|-------------|---------|------------|----------------|
| W144 | 3x6 | 3x30mm | 61A120S5V | 2.03 |
| W144 | 3x6 | 3x30mm | 61A80R5V | 2.03 |
| W145 | 3x10 | 3x30mm | 64A120S5V | 1.92 |
| W153 | 5x10 | 3x30mm | 61A80R5V | 1.87 |
| W154 | 5x13 | 3x30mm | 61A80S5V | 1.92 |
| W154 | 5x13 | 3x30mm | 64A80Q5V | 1.92 |
| W160 | 6x6 | 3x30mm | 64A80Q5V | 1.83 |
| W163 | 6x13 | 3x30mm | 61A60Q5V | 1.83 |
| W164 | 6x20 | 6x40mm | 61A80S3V | 1.83 |
| W164 | 6x20 | 3x30mm | 61A80R5V | 1.83 |
| W170 | 8x13 | 3x30mm | 61A80Q5V | 1.83 |
| W176 | 10x13 | 6x40mm | 61A80S5V | 2.22 |
| W176 | 10x13 | 6x40mm | 64A80Q5V | 2.22 |
| W177 | 10x20 | 6x40mm | 60A80S5V | 2.04 |
| W178 | 10x25 | 6x40mm | 64A60Q5V | 2.37 |
| W179 | 10x30 | 6x40mm | 61A46R3V | 2.37 |
| W179 (T) | 10/3x32 | 6x40mm | 61A46R3V | 2.65 |
| W185 | 13x13 | 6x40mm | 61A80S5V | 1.83 |
| W185 | 13x13 | 6x40mm | 72A60Q5V | 1.83 |
| W186 | 13x20 | 6x40mm | 61A60R5V | 1.98 |
| W187 | 13x25 | 6x40mm | 50A36/8R6V | 2.58 |
| W188 | 13x40 | 6x40mm | 61A46R5V | 2.75 |
| W196 | 16x25 | 6x40mm | 63A46S5V | 3.00 |
| W201 | 19x6 | 6x40mm | 61A80R5V | 2.44 |
| W204 | 20x20 | 6x40mm | 61A60R5V | 2.29 |
| W205 | 20x25 | 6x40mm | 61A36Q5V | 2.97 |
| W208 | 20x50 | 6x40mm | 50A60/205V | 3.01 |
| W208 | 20x50 | 6x40mm | 64A46S5V | 3.01 |
| W220 | 25x25 | 6x40mm | 64A46S5V | 2.55 |
| W227 | 32x13 | 6x40mm | 60A36/2P5V | 2.65 |
| W236 | 40x13 | 6x40mm | 60A36/2P5V | 2.97 |
| W237 | 40x25 | 6x40mm | 60A36/2P5V | 4.74 |
| W242 | 51x25 | 6x40mm | 64A46S5V | 6.60 |

Diamond and CBN Superabrasives

Discounts apply as page 2



| TYPE No. | SIZE | GRIT & GRADE | PRICE EACH (£) |
|----------|------------------------------|--------------|----------------|
| 11V9 | 90x10x2x31.75 | D126-75C | 56.24 |
| 11V9 | 100x10x2x31.75 | D126-100C | 67.49 |
| 11V9 | 100x10x2x31.75 | D126-75C | 56.24 |
| 11V9 | 125x10x2x31.75 | D126-75C | 73.11 |
| 1A1 | 175x12.7x3x31.75 | D107-75C | 129.35 |
| 1A1 | 175x12.7x3x31.75 | D126-75C | 129.35 |
| 1A1 | 175x12.7x3x31.75 | D151-75C | 129.35 |
| 1A1 | 175x12.5x31.75 | B126-100C | 179.96 |
| 1A1 | 250x13x3x76.2 Aluminium Body | D151-75C | 196.83 |
| 1A1 | 300x13x3x127 Aluminium Body | D151-75C | 219.33 |
| 1A1 | 300x25x3x127 Aluminium Body | D151-75C | 291.31 |

CONDITIONS OF SALE FOR THE SUPPLY OF GOODS AND ASSOCIATED SERVICES BY P.B.R. ABRASIVES (W'TON) LIMITED

These general conditions shall apply to all quotations and contracts of sale for and on behalf of P.B.R. Abrasives (W'ton) Limited hereinafter called the "Company".

1. All prices, multipliers and quantity discounts are subject to alteration without notice.
2. Prices stated are exclusive of VAT.
3. Minimum Order Value is £ 50.00 nett per delivery to one destination.
4. Account payment terms – strictly 30 days nett.
5. Unless otherwise agreed by the company in writing these conditions supersede any earlier sets of conditions appearing in the company's catalogues or elsewhere, and shall override any terms and conditions stipulated, incorporated or referred to by the buyer whether in the order or in any negotiation and all guarantees, warranties or conditions (including any conditions as to quality or fitness for any particular purpose) whether express or implied by statute, common law or otherwise are excluded and hereby negated.
6. Any date given for delivery is to be considered as approximate only and cannot be guaranteed. The company cannot be made responsible for any delays due to strikes, lock outs, trade disputes, accidents on land or sea, government interference or for any unforeseen circumstances and no claims for damage or compensation will be accepted.
7. In the event that the company is compelled to withdraw from any contract due to circumstances as mentioned in paragraph 6, this does not affect the right of the company to demand payment in respect of all deliveries made before the date that the contract is cancelled.
8. All prices are to be understood for delivery excluding carriage. All risks during transport from the company's works are at the responsibility of the customer.
9. Where the goods are made to the customer's specification, instructions or design, the customer undertakes full responsibility for the suitability and accuracy of the specification, instructions or design and undertakes to indemnify the company against any infringement of any patent, registered design, trade mark, trade name, or copyright and any loss, damage or expense which it may incur by reason of such infringement in any country.
10. Slight imperfections in colour, appearance and measurements are not to be the subject of a complaint. All complaints must be notified by the purchaser within three working days of receipt of goods. If the purchaser wishes to make a complaint at a later date because of defects hidden at the time of receipt despite a careful examination, the purchaser has the right to demand alteration, substitution or further delivery from the company's works, if any defect is found by the company to comply with the original order, if practicable. Defects in any one delivery shall not be ground for cancellation of any remaining part of the agreement.
11. The decision of the company about any alleged defect shall be final and conclusive.

12. Any complaints or shortages must be notified immediately upon receipt of the goods, also any damage that may have occurred in transit. In the event of non-delivery, no claims can be entertained unless notice of such non-delivery reaches us within 14 days from date of advice.

13. Upon delivery of the above goods to the intending purchaser the risk shall pass but the vendor shall remain legal owner of them until such time as the intending purchaser shall have paid to the vendor the full price thereof and the full price of any other goods and the subject of any other contract of sale between the intending purchaser and the vendor. The intending purchaser acknowledges that until such time he is in possession of the goods solely as bailee for the vendor and if so required shall store the goods separately from his own goods and in such a fashion as to be readily identifiable by the vendor.

14. Goods are only to be returned by the purchaser after obtaining prior consent from the company, and should be returned suitably packed to prevent any possibility of damage. The company will not be responsible for any damage that has occurred to returned goods during transit. Where agreed standard items will be credited less the handling charge of 20%. In the event of any product quality complaints credit will be made based on the findings of the investigation (see paragraph 11).

15. Any account that remains outstanding beyond a reasonable time, we reserve the right to pass the account to a third party. This would involve a surcharge of £ 20.00 and any other cost incurred in obtaining settlement. In addition, due to the high rate of interest we reserve the right to add 20% interest to outstanding amounts of more than 90 days.

16. The attention of the customer is drawn to the provisions of section 6 of the Health & Safety at Work etc Act 1974. This ensures that as far as is reasonably practicable the goods will, when put to that use, be safe and without risk to health. The customer warrants that he will ensure that any person to whom he supplies the goods is made aware that such information is available.

17. The quoted price for the goods may be varied by the additions upwards by the company in accordance with the market conditions at the date of actual supply and the buyer shall pay such additions in addition to the quoted price. Without prejudice to the generality of the foregoing market conditions shall include any increase in the cost of labour and / or transport.

18. These conditions shall be subject to and construed in accordance with English law.

19. The proper law of all contracts with the company shall be English law which shall govern in all respects the construction and effects of such contracts and of these conditions. The customer agrees that in the event of any dispute arising out of the contract or the performance thereof he will submit to the jurisdiction of the English Courts.



PBR ABRASIVES

Value • Quality • Service

PBR Abrasives (Wolverhampton) Limited

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