



Metallographic Materials

Cutting

Mounting

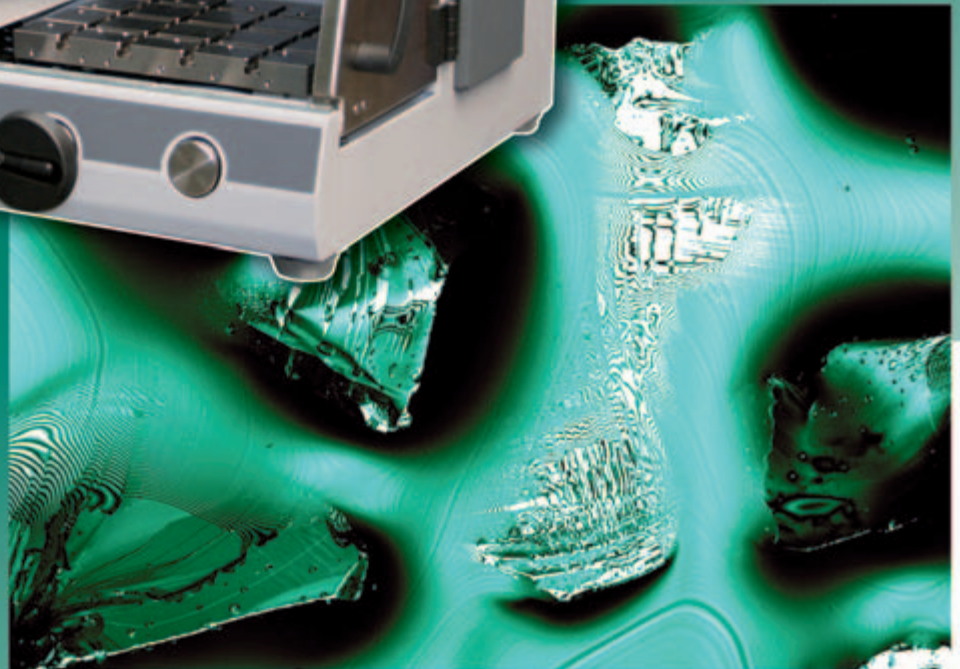
Grinding

Polishing

Microscopes

Hardness

*Test Blocks &
Indenter*



2011

**Price
List**

General Purpose Abrasive Cut-off Wheels

	PACK	CAT NO.	PRICE
TYPE 3H			
Very hard ferrous materials in the range Rc 60+			
250 x 1.6 x 32 mm	10	10 99 21	£62.50
300 x 2.0 x 32 mm	10	10 99 31	£74.50
350 x 2.5 x 32 mm	10	10 99 41	£115.00

TYPE 2HA			
Tough materials eg ferrous Rc 40-55 and nickel based alloys			
250 x 1.6 x 32 mm	10	10 99 22	£62.50
300 x 2.0 x 32 mm	10	10 99 32	£74.50
350 x 2.5 x 32 mm	10	10 99 42	£115.00

TYPE 33H			
Medium hard ductile steels			
250 x 1.6 x 32 mm	10	10 99 23	£62.50
300 x 2.0 x 32 mm	10	10 99 33	£74.50
350 x 2.5 x 32 mm	10	10 99 43	£115.00

TYPE 2H			
General purpose ferrous materials Rc 25-40			
250 x 1.6 x 32 mm	10	10 99 24	£62.50

TYPE H			
Very hard wheel for ferrous tube			
250 x 1.6 x 32 mm	10	10 99 27	£62.50

TYPE T2			
Titanium, aluminium and copper alloys			
250 x 1.6 x 32 mm	10	10 99 28	£95.60

Rapier Abrasive Cut-off Wheels - featuring coolcut technology

TYPE FES			
Very hard ferrous materials in the range Rc 60+			
250 x 1.5 x 32 mm	10	10 98 21	£71.00
300 x 2.0 x 32 mm	10	10 98 31	£136.00
350 x 2.5 x 32 mm	10	10 98 41	£160.00

TYPE FEM			
Tough materials eg ferrous Rc 40-55 and superalloys			
250 x 1.5 x 32 mm	10	10 98 22	£71.00
300 x 2.0 x 32 mm	10	10 98 32	£136.00
350 x 2.5 x 32 mm	10	10 98 42	£160.00

TYPE FEH			
General ferrous materials Rc 25-40 and case hardened specimens			
250 x 1.5 x 32 mm	10	10 98 23	£71.00
300 x 2.0 x 32 mm	10	10 98 33	£136.00
350 x 2.5 x 32 mm	10	10 98 43	£160.00

TYPE T1			
Titanium aluminium and copper alloys for cutters without extraction			
250 x 1.5 x 32 mm	10	10 98 28	£92.00
300 x 2.0 x 32 mm	10	10 98 38	£145.00
350 x 2.5 x 32 mm	10	10 98 48	£168.00

Superthin Abrasive Cut-off Wheels

	PACK	CAT NO.	PRICE
TYPE F			
Superthin wheels for ferrous materials where ultimate cut surface without burring is essential. Most suitable for cutters with extraction.			
250 x 1.0 x 32 mm	10	10 99 26	£123.00
300 x 1.2 x 32 mm	10	10 99 36	£146.00
300 x 0.8 x 32 mm	10	10 98 36	£127.00

TYPE T			
Superthin wheels for titanium and aluminium alloys. Most suitable for cutters with extraction.			
250 x 1.0 x 32 mm	10	10 99 20	£123.00
300 x 1.2 x 32 mm	10	10 99 30	£146.00

Laser Abrasive Cut-off Wheels For use with large orbital cutting machines.

TYPE FES			
For large section, very tough superalloys and induction hardened steels.			
406 x 3.2 x 32 mm	10	10 99 52	£180.00

TYPE FEM			
General purpose tough superalloys and hardened steels.			
406 x 3.2 x 32 mm	10	10 99 53	£180.00

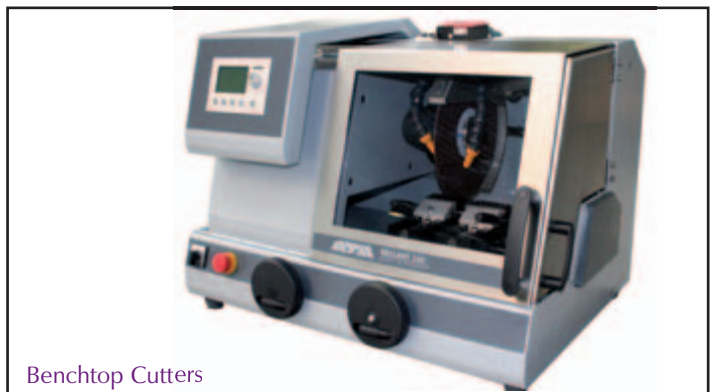
TYPE T3			
For large sections of titanium, aluminium and copper alloys.			
406 x 3.2 x 32 mm	10	10 99 58	£208.00
406 x 1.5 x 32 mm	10	10 99 408	£198.00

Laser Abrasive Cut-off Wheels For use with large oscillating cutting machines.

TYPE FES			
For large section, very tough super alloys and induction hardened steels.			
432 x 3.2 x 32 mm	10	10 99 432	£250.00
432 x 3.2 x 32 mm	10	10 99 432R	£266.00

TYPE FEM			
General purpose tough super alloys and hardened steels.			
432 x 3.2 x 32 mm	10	10 99 433	£250.00
432 x 3.2 x 32 mm	10	10 99 433R	£266.00
508 x 4.2 x 32 mm	10	10 99 502R	£319.00

TYPE T4			
For large sections of titanium, aluminium and copper alloys.			
432 x 3.2 x 32 mm	10	10 99 438	£277.00



Benchtop Cutters

Diamond Cut-off Wheels - For use with variable speed precision cutters

	PACK	CAT NO.	PRICE
TYPE - HIGH CONCENTRATION			
For use on ferrous metals, medium hard ceramics, spray coatings, MM composites & PC Boards			
75 x 0.15 x 12.7 mm	ea	10 07 50	£192.50
100 x 0.30 x 12.7 mm	ea	10 10 50	£225.50
125 x 0.40 x 12.7 mm	ea	10 12 50	£266.00
150 x 0.50 x 12.7 mm	ea	10 15 55	£341.00
175 x 0.60 x 12.7 mm	ea	10 18 50	£409.00

TYPE - LOW CONCENTRATION			
For use on hard ceramics, glass & rock			
75 x 0.15 x 12.7 mm	ea	10 07 51	£192.50
100 x 0.30 x 12.7 mm	ea	10 10 51	£225.50
125 x 0.40 x 12.7 mm	ea	10 12 51	£266.00
150 x 0.50 x 12.7 mm	ea	10 15 56	£341.00
175 x 0.60 x 12.7 mm	ea	10 18 51	£409.00

TYPE - CUBIC BORON NITRIDE - HIGH CONC.			
For rapid cutting Fe, Ni & Co base alloys			
75 x 0.15 x 12.7 mm	ea	10 07 60	£177.00
100 x 0.30 x 12.7 mm	ea	10 10 60	£213.00
125 x 0.40 x 12.7 mm	ea	10 12 60	£234.00
150 x 0.50 x 12.7 mm	ea	10 15 60	£298.00
175 x 0.60 x 12.7 mm	ea	10 18 60	£354.00

TYPE - DIAMOND GUM BLADE			
For polymers, glass or composites and mounted samples			
175 x 0.75 x 12.7 mm	ea	10 18 68	£317.00
200 x 0.90 x 12.7 mm	ea	10 20 68	£434.00

Superfine Abrasive Cut-off Wheels For use with precision cutters

TYPE HNF			
For ferrous materials and superalloys.			
100 x 0.40 x 12.7 mm	5	10 99 01	£29.00
125 x 0.40 x 12.7 mm	5	10 99 02	£31.60
150 x 0.45 x 12.7 mm	5	10 99 03	£33.80
180 x 0.80 x 12.7 mm	5	10 17 20	£44.00

TYPE T5			
For titanium, aluminium and copper alloys.			
150 x 0.45 x 12.7 mm	5	10 99 07	£47.00
180 x 0.80 x 12.7 mm	5	10 17 28	£56.00

Diamond Cut-off Wheels - Petrographic

TYPE - CONTINUOUS RIM			
For rocks and petrographic samples			
100 x 0.40 mm	ea	10 10 40	£87.00
150 x 1.00 mm	ea	10 15 40	£106.00
200 x 1.35 mm	ea	10 20 40	£131.00
250 x 1.35 mm	ea	10 25 40	£169.00
300 x 1.60 mm	ea	10 30 40	£339.00
350 x 1.70 mm	ea	10 35 40	£385.00

NB. PLEASE SPECIFY ARBOUR SIZE WHEN ORDERING

Diamond Cut-off Wheels - General purpose

	PACK	CAT NO.	PRICE
TYPE - RESIN BONDED			
For use with standard, single speed metallurgical cutters for very hard materials eg. tungsten carbide and ceramics			
200 x 1.5 x 32 mm	ea	10 20 60	£295.00
250 x 1.5 x 32 mm	ea	10 25 60	£409.00
300 x 1.5 x 32 mm	ea	10 30 60	£475.00
350 x 1.5 x 32 mm	ea	10 35 60	£565.00

Accessories for cutting machines

TYPE - COOL			
Advanced cutting fluid for use in recirculating systems for lubrication and corrosion protection.			
1 litre		10 90 01	£18.90
5 litre		10 90 05	£61.50

TYPE - BIOCLEAN NEW			
Bacterial disinfectant - Add to cool recirculation tank monthly to prevent bacterial growth and bad odours.			
1 litre		10 90 08	£22.60

TYPE - DIALUB			
Advanced cutting oil for use with diamond and CBN blades in precision cutters			
1 litre		11 11 00	£18.80

TYPE - DIALUB 2			
Synthetic water based lubricant for use with diamond and CBN blades in precision cutters			
1 litre		11 11 01	£18.80

DRESSING STICK For use with diamond and CBN blades			
12 x 12 x 100 mm	each	10 90 02	£16.00

ANTI FOAM AGENT	60 ml	10 90 09	£9.50
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ANTI MIST GEL	60 ml	92 00 43 04	£22.00
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Cold Mounting Systems

	PACK	CAT NO.	PRICE
KLEER-SET			
Polyester resin/hardener system giving glass clear mounts. Curing time: 40 mins			
KLEER-SET FF Resin and hardener	1Kg	11 10 81	£26.50
KLEER-SET FF Resin and hardener	5Kg	11 10 82	£74.50

DI-HARD			
Unique 2 part system for use when minimal shrinkage and very high hardness is required to give maximum support to specimen edges and eliminate edge rounding. Cure time 15mins.			
DI-HARD Powder opaque	1Kg	11 10 31	£42.00
DI-HARD Liquid	0.5L	11 10 32	£25.65
DI-HARD Kit - Large	4Kg/2L	11 10 34	£230.00

VARI-SET			
Acrylic powder/liquid system offered in two different hardness levels. Powders can be mixed to obtain intermediate levels of hardness. Minimal shrinkage ensures ultimate edge preparation. Curing time 10 mins.			
VARI-SET 10 Powder soft clear	1Kg	11 10 27	£48.00
VARI-SET 20 Powder hard green	1Kg	11 10 28	£48.00
VARI-SET 10/20 liquid	0.5L	11 10 29	£22.50

NEW	QUICK-SET 2		
Acrylic powder/liquid system giving a fast cure time of 5 mins, combining ease of use with minimal shrinkage and low odour.			
QUICK-SET Powder blue	1Kg	11 10 35	£48.00
QUICK-SET Liquid	0.5L	11 10 36	£22.50

ACRI-KLEER			
The most transparent powder/liquid cold mounting system, without using a pressure chamber. Curing time - 8 mins.			
ACRI-KLEER Powder clear	1Kg	11 10 44	£78.75
ACRI-KLEER Liquid	1L	11 10 47	£31.50

NEW	CRYSTAL-KLEER		
Quick setting acrylic which becomes glass clear using a pressure chamber			
Crystal-Kleer Powder	1Kg	11 10 50	£48.20
Crystal-Kleer Liquid	1L	11 10 55	£43.90

EPO-SET			
Epoxy resin/hardener system, low shrinkage. Curing time approx. 6 hours.			
EPO-SET Resin	1Kg	11 10 61	£42.90
EPO-SET Hardener	250g	11 10 62	£21.90

Mounting Accessories

MOULDS for cold mounting.

Round silicone rubber				
DIA.	HEIGHT	PACK	CAT NO.	PRICE
30 mm	20 mm	1	11 30 02	£7.70
32 mm	20 mm	1	11 30 03	£7.70
40 mm	25 mm	1	11 30 05	£8.80
50 mm	25 mm	1	11 30 06	£10.90

Rectangular silicone rubber				
LENGTH	WIDTH	HEIGHT		
55 mm	30 mm	22 mm	ea	11 30 10 £14.85
70 mm	40 mm	22 mm	ea	11 30 11 £19.80
100 mm	50 mm	22 mm	ea	11 30 12 £29.25

MET-MOULDS				
Polypropylene 2 part				
30mm Dia	10	11 30 17	£15.85	
1¼" Dia	10	11 30 18	£15.85	
40mm Dia	10	11 30 20	£17.00	

SILICONE mould release				
Aerosol	400 ml	11 30 23	£15.00	
Grease	100 g	11 30 22	£9.50	

MIXING CUPS Graduated	80	11 30 30	£14.85	
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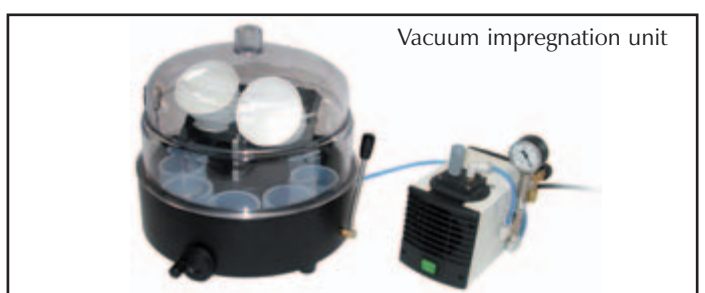
STIRRING STICKS WOODEN	500	11 30 32	£14.00	
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UNICLIP				
Specimen mounting device for holding sheet material, PCBs, wire and irregular small shapes. Tripod design to minimise interference at the prepared surface.				
UNICLIP plastic tripod (Black)	100	11 30 43	£22.90	
UNICLIP plastic tripod (Blue)	100	11 30 44	£22.90	
UNICLIP plastic tripod (Red)	100	11 30 45	£22.90	
UNICLIP plastic tripod (Green)	100	11 30 46	£22.90	
UNICLIP plastic tripod (Yellow)	100	11 30 47	£22.90	

CLAMP SPRING CLIPS				
for mounting thin samples.				
CLAMP Stainless steel	100	11 30 40	£26.50	
CLAMP Plastic	100	11 30 41	£27.50	

SAMPLE IDENTIFICATION LABELS				
Self adhesive	200	11 99 11	£3.50	
Plain backed	200	11 99 12	£3.50	

SPECIMEN PROTECTIVE LACQUER				
Aerosol	400ml	11 30 25	£12.00	



Hot Mounting Compounds

	PACK	CAT NO.	PRICE
PHENOLIC			
Mounting compounds for general purpose applications, economical in use.			
BAKELITE S			
Black	2.5 Kg	11 20 011	£21.00
	25 Kg	11 20 07	£106.50

BAKELITE R			
Red	2.5 Kg	11 20 021	£25.50
	25 Kg	11 20 08	£148.00

EDGE-MOUNT			
Mounting compound for improved edge retention.			
Black	2.5 Kg	11 99 04	£47.00
	25 Kg	11 99 05	£313.00

CONDUCTO-MOUNT			
Conductive mounting compound - for SEM.			
Black	2.5 Kg	11 99 01	£59.00
	25 Kg	11 99 02	£329.00

CONDUCTO-MOUNT 2			
Improved conductive mounting, hard with exceptional edge retention - for SEM.			
Black	1 Kg	11 99 06	£39.95
	2.5 Kg	11 99 07	£81.20

	PACK	CAT NO.	PRICE
DAP-MOUNT			
Diallylphthalate resin thermosetting, glass filled for low shrinkage and good edge retention.			
Blue	1 Kg	11 20 105	£40.70
	2.5 Kg	11 20 106	£92.00

EPO-MOUNT			
Glass filled, for the ultimate in edge retention.			
Black	1 Kg	11 20 11	£35.40
	2.5 Kg	11 20 111	£72.90

EPO-MOUNT 2			
For use with poor or damaged moulds for the ultimate edge retention.			
Black	1Kg	11 20 31	£35.40
	2.5Kg	11 20 32	£72.90

KLEER-MOUNT			
Transparent acrylic resin, used when it is essential to observe specimens through the mounting material.			
Transparent	1Kg	11 20 21	£30.70
	2.5 Kg	11 20 95	£57.20
	25kg	11 20 96	£356.00

CRYSTALLITE			
Transparent resin with minimal shrinkage and high hardness. Can be used as a facing with Kleer-Mount to minimise cost.			
	1.5Kg	11 99 15	£52.90






Silicon Carbide Waterproof Abrasive Papers

PLAIN BACKED

	PACK	CAT NO.	PRICE
DISCS 203 mm Dia plain backed			
Grit size P60	100	13 99 00	£36.80
Grit size P80	100	13 99 01	£32.76
Grit size P120	100	13 99 03	£29.61
Grit size P180	100	13 99 05	£26.04
Grit size P240	100	13 99 07	£26.04
Grit size P320	100	13 99 09	£26.04
Grit size P400	100	13 99 10	£26.04
Grit size P600	100	13 99 12	£26.04
Grit size P800	100	13 99 13	£26.04
Grit size P1200	100	13 99 15	£26.04
Grit size P2500	100	13 99 18	£41.60
Grit size P4000	100	13 99 19	£70.90
Grit size 600 (P1200) Softcut	100	13 99 20	£81.80

DISCS 230 mm Dia plain backed			
Grit size P60	100	13 23 00	£46.10
Grit size P80	100	13 23 01	£39.42
Grit size P120	100	13 23 03	£34.44
Grit size P180	100	13 23 05	£31.50
Grit size P240	100	13 23 07	£31.50
Grit size P320	100	13 23 09	£31.50
Grit size P400	100	13 23 10	£31.50
Grit size P600	100	13 23 12	£31.50
Grit size P800	100	13 23 13	£31.50
Grit size P1200	100	13 23 15	£31.50
Grit size P2500	100	13 23 18	£49.95
Grit size P4000	100	13 23 19	£90.70

DISCS 250 mm Dia plain backed			
Grit size P60	100	13 25 00	£58.43
Grit size P80	100	13 25 01	£54.00
Grit size P120	100	13 25 03	£41.70
Grit size P180	100	13 25 05	£37.90
Grit size P240	100	13 25 07	£37.90
Grit size P320	100	13 25 09	£37.90
Grit size P400	100	13 25 10	£37.90
Grit size P600	100	13 25 12	£37.90
Grit size P800	100	13 25 13	£37.90
Grit size P1200	100	13 25 15	£37.90
Grit size P2500	100	13 25 18	£56.10
Grit size P4000	100	13 25 19	£115.90

DISCS 305 mm Dia plain backed			
Grit size P60	100	13 99 30	£75.90
Grit size P80	100	13 99 31	£60.63
Grit size P120	100	13 99 33	£52.10
Grit size P180	100	13 99 35	£47.56
Grit size P220 	100	13 99 36	£47.56
Grit size P240	100	13 99 37	£47.56
Grit size P320	100	13 99 39	£47.56
Grit size P400	100	13 99 40	£47.56
Grit size P500 	100	13 99 41	£47.56
Grit size P600	100	13 99 42	£47.56
Grit size P800	100	13 99 43	£47.56
Grit size P1000 	100	13 99 44	£47.56
Grit size P1200	100	13 99 45	£47.56
Grit size P2500	100	13 99 48	£80.40
Grit size P4000	100	13 99 49	£158.00

ROLLS 76 mm x 20 M			
Grit size P120	ea	13 80 03	£15.70
Grit size P240	ea	13 80 07	£13.50
Grit size P320	ea	13 80 09	£13.50
Grit size P400	ea	13 80 10	£13.50
Grit size P600	ea	13 80 12	£13.50
Grit size P800	ea	13 80 13	£13.50
Grit size P1200	ea	13 80 15	£13.50

ADHESIVE BACKED

	PACK	CAT NO.	PRICE
DISCS 203 mm Dia adhesive backed			
Grit size P60	100	13 20 50	£58.38
Grit size P80	100	13 20 51	£54.75
Grit size P120	100	13 20 53	£47.46
Grit size P180	100	13 20 55	£41.23
Grit size P240	100	13 20 57	£41.23
Grit size P320	100	13 20 59	£41.23
Grit size P400	100	13 20 60	£41.23
Grit size P600	100	13 20 62	£41.23
Grit size P800	100	13 20 63	£41.23
Grit size P1200	100	13 20 65	£41.23
Grit size P2500	100	13 20 68	£56.12

DISCS 250 mm Dia adhesive backed			
Grit size P60	100	13 25 50	£82.00
Grit size P80	100	13 25 51	£76.65
Grit size P120	100	13 25 53	£63.74
Grit size P180	100	13 25 55	£59.95
Grit size P240	100	13 25 57	£59.95
Grit size P320	100	13 25 59	£59.95
Grit size P400	100	13 25 60	£59.95
Grit size P600	100	13 25 62	£59.95
Grit size P800	100	13 25 63	£59.95
Grit size P1200	100	13 25 65	£59.95
Grit size P2500	100	13 25 68	£86.63

DISCS 305 mm Dia adhesive backed			
Grit size P60	100	13 30 50	£116.00
Grit size P80	100	13 30 51	£108.30
Grit size P120	100	13 30 53	£103.50
Grit size P180	100	13 30 55	£89.00
Grit size P240	100	13 30 57	£89.00
Grit size P320	100	13 30 59	£89.00
Grit size P400	100	13 30 60	£89.00
Grit size P600	100	13 30 62	£89.00
Grit size P800	100	13 30 63	£89.00
Grit size P1200	100	13 30 65	£89.00
Grit size P2500	100	13 30 68	£111.00

Abrasive Belts Waterproof

SILICON CARBIDE cloth belts 100 x 915 mm			
Grit size P60	10	13 51 00	£36.60
Grit size P80	10	13 51 01	£35.05
Grit size P120	10	13 51 03	£31.30
Grit size P180	10	13 51 05	£31.30
Grit size P240	10	13 51 07	£31.30
Grit size P400	10	13 51 10	£31.30

ALUMINIUM OXIDE cloth belts 100 x 915 mm			
Grit size P60	10	13 99 80	£34.20
Grit size P80	10	13 99 81	£30.60
Grit size P120	10	13 99 83	£29.40
Grit size P180	10	13 99 85	£29.40
Grit size P240	10	13 99 87	£29.40
Grit size P400	10	13 99 90	£29.40

ZIRCONIA cloth belts 100 x 915 mm			
Grit size P60	10	13 51 20	£62.45
Grit size P80	10	13 51 21	£60.63
Grit size P120	10	13 51 23	£60.63

GRIT-GRABBERS Double sided adhesive discs for use with plain backed SiC papers. Can be used repeatedly			
203 mm dia	10	13 90 03	£20.60
254 mm dia	10	13 90 04	£26.00
305 mm dia	10	13 90 06	£33.00

Systemautomat

GRINDING/POLISHING AUTOMATION



The **Systemautomat** gives you space where there was no room for your sample evaluation. Your samples are prepared, polished and cleaned, all automatically. The results are reproducible and very good quality. The powder-coated Aluminium housing is comprised of elements from the System Lab cabinets/units. The sub-structure or framework is made from powder-coated steel. Between the very robust end-segments, there is the possibility to install 4 - 8 System units (figure shows 5-space) in any configuration desired. The Automat can be equipped with 2 grinding and polishing heads and the sample holder stack has a capacity for up to 12 sample holders. The machine is closed on 3 sides and the open front side is protected by a photo-electric barrier. This open front side enables visual supervision of all working processes.



TOUCH-SCREEN CONTROL

Simple operation per touch-screen control at the control panel is unique- it can be slid from left to right into any position. In each working phase the user interface shows a graphic demonstration of the working position. You can follow the processing sequence of the sample holder on the monitor in real time. The process sequence of the stations can be first determined and then later called-up as individual programs. A large number of arbitrary programs can be stored individually and then called up. As standard equipment, there is a connection for remote maintenance which enables the recognition and removal of faults/errors. If there is a problem you cannot solve, then we can help at once if you so desire.

GRINDING AND POLISHING STATIONS

Grinding and polishing stations serve the dressing, intermediate or end-polishing of samples. The grinding and polishing mediums are fixed onto the working wheels of the stations either with vacuum or magnetic system. Dosing systems are selected to fit in with the stations. Dosage amount, type and interval can be freely programmed. Stations are integrated into the System spaces. You can equip the polishing stations with cooling for the working wheels and covers for the automatic working wheels.

WARM AIR DRYER

After final cleaning, the warm air dryer dries the samples with the polished surface upwards and then stores the dried samples in the sample holder stack. The drying time is freely programmable.

GRINDING AND POLISHING HEAD

The grinding and polishing head takes the sample holder from the stack, travels from one workstation to the next, performs its sequence or cycle and then takes the finished sample holder back and places it in the holder stack. The use of 2 grinding and polishing heads means an optimum utilisation of the machine.



Systemautomat

with **Metprep**

The pictures show examples of Systemautomat combinations. The stations and their options can be arranged individually. Please ask for advice.

Planar Grinding M

Cameo Platinum Series

Suitable for primary and fine grinding ferrous and super alloys. Used to replace SiC abrasive paper to maximise efficiency and minimise waste.

PACK CAT NO. PRICE

DISCS 200mm (8") Dia Magnetic Backed

Grit size P80 - 100	ea	12 20 00	£48.30
Grit size P120 - 150	ea	12 20 01	£40.00
Grit size P220 - 320	ea	12 20 02	£37.00
Grit size P400 - 600	ea	12 20 03	£37.00
Grit size P1000	ea	12 20 04	£37.00

DISCS 250mm (10") Dia Magnetic Backed

Grit size P80 - 100	ea	12 25 00	£56.70
Grit size P120 - 150	ea	12 25 01	£46.20
Grit size P220 - 320	ea	12 25 02	£44.00
Grit size P400 - 600	ea	12 25 03	£44.00
Grit size P1000	ea	12 25 04	£44.00

DISCS 300mm (12") Dia Magnetic Backed

Grit size P80 - 100	ea	12 30 00	£75.60
Grit size P120 - 150	ea	12 30 01	£61.00
Grit size P220 - 320	ea	12 30 02	£57.70
Grit size P400 - 600	ea	12 30 03	£57.70
Grit size P1000	ea	12 30 04	£57.70

Zirconia Series

Cloth discs PSA - use with magnoplates

Suitable for primary grinding all materials to remove cutting marks and disturbed layer. The primary advantage of this material is its very long life and cool cutting characteristics, when compared to SiC.

DISCS 203mm (8") Dia PSA

Grit size P60	25	12 20 50	£56.00
Grit size P80	25	12 20 51	£50.00
Grit size P120	25	12 20 53	£48.00

DISCS 254mm (10") Dia PSA

Grit size P60	25	12 25 50	£84.60
Grit size P80	25	12 25 51	£78.00
Grit size P120	25	12 25 53	£74.00

DISCS 305mm (12") Dia PSA

Grit size P60	25	12 30 50	£120.00
Grit size P80	25	12 30 51	£112.00
Grit size P120	25	12 30 53	£106.00



Twin Polisher/Grinder

Galaxy Series

Suitable for primary grinding to remove cutting marks and produce a plane surface on hard materials such as tungsten carbides and ceramics.

PACK CAT NO. PRICE

DISCS 200mm (8") Dia Magnetic Backed

Grit size 30 micron	ea	12 20 95	£442.00
Grit size 120 micron	ea	12 20 90	£442.00

DISCS 250mm (10") Dia Magnetic Backed

Grit size 30 micron	ea	12 25 95	£468.00
Grit size 120 micron	ea	12 25 90	£468.00

DISCS 300mm (12") Dia Magnetic Backed

Grit size 30 micron	ea	12 30 95	£519.00
Grit size 120 micron	ea	12 30 90	£519.00

Magnobase

Attachment to polishing platens to enable all our magnetic products.

MAGNETIC DISCS

200 mm Dia	ea	16 20 15	£14.95
250 mm Dia	ea	16 25 15	£18.00
300 mm Dia	ea	16 30 15	£24.70

Magnoplane

Steel disc with one side adhesive coated to attach multiple plain SiC discs for magnetic applications.

STEEL DISCS, ADHESIVE COATED

203 mm Dia	5	13 90 13	£44.50
254 mm Dia	5	13 90 14	£50.00
305 mm Dia	5	13 90 16	£59.50

Magnoplate

For use with self adhesive abrasive papers and polishing cloths in conjunction with Magnobase.

PLATED STEEL DISC

200 mm Dia	5	16 20 10	£27.50
254 mm Dia	5	16 25 10	£35.75
305 mm Dia	5	16 30 10	£41.80



Single Automatic Polisher/Grinder

Fine Grinding M

Cameo Silver & Gold Series

The Cameo Silver and Cameo Gold are a new type of fine grinding disc which deliver a constant stock removal rate. They can be used to replace many traditional grinding steps from 240 to 1200 grit where silicon carbide abrasive paper is commonly used. This reduces the number of steps in your procedure resulting in considerable cost savings and waste reduction, and optimum flatness is achieved. The Matrix pattern optimises the effectiveness of the MetPrep diamond suspension applied, by ensuring continuous and even distribution during the grinding process.

CAMEO SILVER For medium hard to very hard materials >400HV

Discs 200 mm (8") dia magnetic	ea	12 20 10	£42.00
Discs 250 mm (10") dia magnetic	ea	12 25 10	£51.00
Discs 300 mm (12") dia magnetic	ea	12 30 10	£58.00

CAMEO GOLD For soft ferrous and non-ferrous materials

Discs 200 mm (8") dia magnetic	ea	12 20 15	£40.00
Discs 250 mm (10") dia magnetic	ea	12 25 15	£49.00
Discs 300 mm (12") dia magnetic	ea	12 30 15	£55.00

IMPORTANT FEATURES

- Cost efficient - one Cameo disc replaces many SiC abrasive papers.
- Patented surface profile ensures even stock removal.
- The micro pools spread and recycle the diamond suspension which substantially reduces the usage compared to other systems.
- The stock removal rates of Cameo discs are unsurpassed, giving short preparation times and a perfectly flat surface.
- Cameo discs can be used on manual and automatic polishers.

Diamond Disc Series

Metal bond, raised spot pattern - magnetic

DISCS 200 mm (8") Dia metal bond, magnetic backed

10 micron	ea	14 20 34	£71.90
40 micron	ea	14 20 37	£71.90
75 micron	ea	14 20 38	£75.60

DISCS 250 mm (10") Dia metal bond, magnetic backed

10 micron	ea	14 25 34	£120.00
40 micron	ea	14 25 37	£120.00
75 micron	ea	14 25 38	£124.00

DISCS 300 mm (12") Dia metal bond, magnetic backed

10 micron	ea	14 30 34	£171.00
40 micron	ea	14 30 37	£171.00
75 micron	ea	14 30 38	£177.00

Resin bond, raised spot pattern - magnetic

DISCS 200 mm (8") Dia Resin bond, magnetic backed

3 micron	ea	14 20 42	£65.60
9 micron	ea	14 20 44	£65.60
30 micron	ea	14 20 46	£65.60

DISCS 250 mm (10") Dia Resin bond, magnetic backed

3 micron	ea	14 25 42	£106.00
9 micron	ea	14 25 44	£106.00
30 micron	ea	14 25 46	£106.00

DISCS 300 mm (12") Dia Resin bond, magnetic backed

3 micron	ea	14 30 42	£146.00
9 micron	ea	14 30 44	£146.00
30 micron	ea	14 30 46	£139.00

SiC Discs Plain - use with Magnoplane (Pg7) for magnetic applications

	PACK	CAT NO.	PRICE
DISCS 203 mm Dia plain backed			
Grit size P60	100	13 99 00	£36.80
Grit size P80	100	13 99 01	£32.76
Grit size P120	100	13 99 03	£29.61
Grit size P180	100	13 99 05	£26.04
Grit size P240	100	13 99 07	£26.04
Grit size P320	100	13 99 09	£26.04
Grit size P400	100	13 99 10	£26.04
Grit size P600	100	13 99 12	£26.04
Grit size P800	100	13 99 13	£26.04
Grit size P1200	100	13 99 15	£26.04
Grit size P2500	100	13 99 18	£41.60
Grit size P4000	100	13 99 19	£70.90

DISCS 250 mm Dia plain backed

Grit size P60	100	13 25 00	£58.43
Grit size P80	100	13 25 01	£54.00
Grit size P120	100	13 25 03	£41.70
Grit size P180	100	13 25 05	£37.90
Grit size P240	100	13 25 07	£37.90
Grit size P320	100	13 25 09	£37.90
Grit size P400	100	13 25 10	£37.90
Grit size P600	100	13 25 12	£37.90
Grit size P800	100	13 25 13	£37.90
Grit size P1200	100	13 25 15	£37.90
Grit size P2500	100	13 25 18	£56.10
Grit size P4000	100	13 25 19	£115.90

DISCS 305 mm Dia plain backed

Grit size P60	100	13 99 30	£75.90
Grit size P80	100	13 99 31	£60.63
Grit size P120	100	13 99 33	£52.10
Grit size P180	100	13 99 35	£47.56
Grit size P220	100	13 99 36	£47.56
Grit size P240	100	13 99 37	£47.56
Grit size P320	100	13 99 39	£47.56
Grit size P400	100	13 99 40	£47.56
Grit size P500	100	13 99 41	£47.56
Grit size P600	100	13 99 42	£47.56
Grit size P800	100	13 99 43	£47.56
Grit size P1000	100	13 99 44	£47.56
Grit size P1200	100	13 99 45	£47.56
Grit size P2500	100	13 99 48	£80.40
Grit size P4000	100	13 99 49	£158.00



Twin Wet Linisher

Polishing M

Primary Polishing Cloth - Magnetic

	PACK	CAT NO.	PRICE
ABRACLOTH M , a hard, coarse weave synthetic material for intermediate grinding, and primary polishing. Use with 15 or 9 micron diamond.			
203 mm dia	5	17 20 40	£43.60
254 mm dia	5	17 25 40	£61.30
305 mm dia	5	17 30 40	£77.00

PLANOCLOTH HM , perforated chemotextile oil, water and alcohol resistant. For rapid stock removal from hard materials, producing flat, relief free specimens. Use with diamond abrasives 6 micron and larger.			
203 mm dia	5	17 20 62	£78.00
254 mm dia	5	17 25 62	£107.00
305 mm dia	5	17 30 62	£134.00

PA-W CLOTH M , chemotextile for flat, relief free specimens. Especially useful for soft malleable materials. Use with 6 or 9 micron diamond.			
203 mm dia	5	17 20 65	£36.70
254 mm dia	5	17 25 65	£52.15
305 mm dia	5	17 30 65	£59.90

PLANOCLOTH M , chemotextile oil, water and alcohol resistant for flat and relief free specimens. Use with diamond abrasives 3 micron and larger.			
203 mm dia	5	17 20 61	£36.70
254 mm dia	5	17 25 61	£52.15
305 mm dia	5	17 30 61	£59.00

NYLAP CLOTH M , hard napless, long life for pre-polishing all materials. Use with diamond abrasives 6-15 micron.			
203 mm dia	5	17 20 50	£35.40
250 mm dia	5	17 25 50	£48.60
305 mm dia	5	17 30 50	£61.00

DURASILK M , for coarse polishing of tough materials eg. Titanium, super alloys & steels. Use with 3 or 6 micron diamond.			
203 mm	5	17 20 52	£33.00
254 mm	5	17 25 52	£42.00
305 mm	5	17 30 52	£50.00

Final Polishing Cloth - Magnetic

	PACK	CAT NO.	PRICE
CASHMERE CLOTH M , The softest virgin wool cloth specially prepared to produce flat polished surfaces using diamond or oxide abrasives of between 15 and 1 micron.			
203 mm dia	5	17 20 70	£45.40
254 mm dia	5	17 25 70	£67.50
305 mm dia	5	17 30 70	£75.50

TROUNOIRE M , dense short napped cloth for final polishing 6-1/4 micron diamond.			
203 mm dia	5	17 20 95	£40.50
254 mm dia	5	17 25 95	£68.90
305 mm dia	5	17 30 95	£77.20

ALPHACLOTH M , versatile cloth, synthetic short nap fibres bonded to a woven cotton backing. For all final polishing using diamond, alumina or silica abrasives of 1 micron or less.			
203 mm dia	5	17 20 94	£31.85
254 mm dia	5	17 25 94	£41.60
305 mm dia	5	17 30 94	£48.80

MEMPHIS CLOTH M , heavy duty with medium nap, for final polishing using diamond 3 micron or less.			
203 mm dia	5	17 20 96	£34.10
254 mm dia	5	17 25 96	£58.00
305 mm dia	5	17 30 96	£65.00

MULTICLOTH M , with very short soft nap, for final polishing with oxide abrasives, 1 micron or less.			
203 mm dia	5	17 20 92	£34.10
254 mm dia	5	17 25 92	£46.00
305 mm dia	5	17 30 92	£54.00

CHEMICLOTH M , black napless porous synthetic cloth for chemical / mechanical final polishing, producing superfine finish with minimal relief. Very long life. Use with colloidal silica or alumina suspension.			
203 mm dia	5	17 20 91	£53.00
254 mm dia	5	17 25 91	£78.00
305 mm dia	5	17 30 91	£99.00



Primary Polishing

	PACK	CAT NO.	PRICE
ABRACLOTH , a hard coarse weave synthetic material for intermediate grinding, and primary polishing. Used with 15 or 9 min			
203 mm dia	5	16 20 40	£31.00
254 mm dia	5	16 25 40	£46.40
305 mm dia	5	16 30 40	£54.35

PLANOCLOTH H , perforated chemotextile oil water and alcohol resistant. For rapid stock removal from hard materials, producing flat, relief free specimens. Used with diamond abrasives 6 micron and larger.			
203 mm dia	5	16 20 62	£70.35
254 mm dia	5	16 25 62	£97.00
305 mm dia	5	16 30 62	£122.00

PA-W CLOTH , chemotextile for flat, relief free specimens. Especially useful for soft malleable materials.			
203 mm dia	5	16 20 65	£23.75
254 mm dia	5	16 25 65	£34.95
305 mm dia	5	16 30 65	£49.90

PLANOCLOTH , chemotextile oil water and alcohol resistant for flat and relief free specimens. Used with diamond abrasives 3 micron and larger.			
203 mm dia	5	16 20 61	£23.75
254 mm dia	5	16 25 61	£34.95
305 mm dia	5	16 30 61	£49.90

NYLAP CLOTH , hard napless, long life for pre-polishing all materials. Use with diamond abrasives micron 6-15.			
203 mm dia	5	16 20 50	£27.00
254 mm dia	5	16 25 50	£39.40
305 mm dia	5	16 30 50	£53.20

DURASILK , for coarse polishing of tough materials eg. Titanium, super alloys & steels. Use with 3 or 6 micron diamond.			
203 mm	5	16 20 52	£32.00
254 mm	5	16 25 52	£40.00
305 mm	5	16 30 52	£44.45

Final Polishing

	PACK	CAT NO.	PRICE
CASHMERE CLOTH The softest virgin wool cloth specially prepared to produce flat polished surfaces using diamond or oxide abrasives of between 15 and 1 micron.			
203 mm dia	5	16 20 70	£40.30
254 mm dia	5	16 25 70	£61.45
305 mm dia	5	16 30 70	£68.10

TROUNOIRE dense short napped cloth for final polishing 6-1 micron.			
203 mm dia	5	16 20 95	£31.85
250 mm dia	5	16 25 95	£41.05
305 mm dia	5	16 30 95	£53.20

ALPHACLOTH , versatile cloth, synthetic short nap fibres bonded to a woven cotton backing. For all final polishing using diamond, alumina or silica abrasives of 1 micron or less.			
203 mm dia	5	16 20 94	£25.70
254 mm dia	5	16 25 94	£35.90
305 mm dia	5	16 30 94	£41.70

MEMPHIS CLOTH , heavy duty with medium nap, for final polishing using diamond 3 micron or less.			
203 mm dia	5	16 20 96	£23.55
250 mm dia	5	16 25 96	£30.45
305 mm dia	5	16 30 96	£39.40

MULTICLOTH , with very short soft nap, for final polishing with diamond and oxide abrasives.			
203 mm dia	5	16 20 92	£22.00
254 mm dia	5	16 25 92	£29.25
305 mm dia	5	16 30 92	£34.50

CHEMICLOTH , black napless porous synthetic cloth for chemical / mechanical final polishing, producing superfine finish with minimal relief. Very long life.			
203 mm dia	5	16 20 91	£46.55
254 mm dia	5	16 25 91	£70.35
305 mm dia	5	16 30 91	£89.80



Leica DMI5000M

LEICA + METPREP

ALLIANCE IN MICROSCOPY FOR MATERIAL SCIENCE.

We are pleased to announce our association with Leica Microsystems, for supplies of materials microscopes and imaging systems. The outstanding quality of Leica products are the benchmark in their industry.

We are excited by this new development and look forward to the opportunity to demonstrate to you, the range and diversity of these great products, either in our demonstration laboratory or in your facility.

POLISHING

Diamond Polishing Compounds

Monocrystalline

	PACK	CAT NO.	PRICE
DIAMOND compound in disposable syringes			
Micron size ¼ Grey	5 g	15 99 02	£9.05
Micron size ¼	20 g	15 99 04	£29.05
Micron size 1 Blue	5 g	15 99 06	£7.75
Micron size 1	20 g	15 99 08	£24.60
Micron size 3 Green	5 g	15 99 10	£12.15
Micron size 3	20 g	15 99 12	£38.80
Micron size 6 Yellow	5 g	15 99 14	£12.15
Micron size 6	20 g	15 99 16	£38.80
Micron size 9 Red	5 g	15 99 18	£16.15
Micron size 9	20 g	15 99 20	£51.70
Micron size 15 Brown	5 g	15 99 22	£16.15
Micron size 15	20 g	15 99 24	£51.70
Micron size 30 Mahogany	5 g	15 99 26	£16.15
Micron size 30	20 g	15 99 28	£51.70
Micron size 45 Purple	5 g	15 99 30	£16.15
Micron size 45	20 g	15 99 32	£51.70

DIASPRAY monocrystalline diamond water base aerosol, manually pressurised

Micron size ¼ Grey	250 ml	15 42 31	£26.40
Micron size 1 Blue	250 ml	15 42 32	£19.30
Micron size 3 Green	250 ml	15 42 33	£19.30
Micron size 6 Yellow	250 ml	15 42 34	£26.40
Micron size 9 Red	250 ml	15 42 35	£26.40
Micron size 15 Brown	250 ml	15 42 36	£28.00
Micron size 30 Mahogany	250 ml	15 42 37	£28.00
Micron size 45 Purple	250 ml	15 42 38	£28.00

DIAMOND SUSPENSIONS - monocrystalline water base with trigger spray

Micron size ¼ Grey	400 ml	15 99 44	£40.00
Micron size 1 Blue	400 ml	15 99 48	£28.85
Micron size 3 Green	400 ml	15 99 52	£28.85
Micron size 6 Yellow	400 ml	15 99 56	£40.00
Micron size 9 Red	400 ml	15 99 60	£40.00
Micron size 15 Brown	400 ml	15 99 64	£42.80
Micron size 30 Mahogany	400 ml	15 99 66	£42.80
Micron size 45 Purple	400 ml	15 99 68	£42.80
Micron size 90 Clear	400 ml	15 99 76	£66.80

DIAMOND SUSPENSIONS - monocrystalline water base, refill bottles

Micron size ¼ Grey	1L	15 98 44	£80.00
Micron size 1 Blue	1L	15 98 48	£46.90
Micron size 3 Green	1L	15 98 52	£54.80
Micron size 6 Yellow	1L	15 98 56	£80.00
Micron size 9 Red	1L	15 98 60	£85.60
Micron size 15 Brown	1L	15 98 64	£85.60
Micron size 30 Mahogany	1L	15 98 66	£85.60
Micron size 45 Purple	1L	15 98 68	£85.60

DIAMOND SUSPENSIONS - monocrystalline oil base, with trigger spray

Micron size ¼ Grey	400 ml	15 99 43	£40.00
Micron size 1 Blue	400 ml	15 99 47	£28.85
Micron size 3 Green	400 ml	15 99 51	£28.85
Micron size 6 Yellow	400 ml	15 99 55	£40.00
Micron size 9 Red	400 ml	15 99 59	£40.00
Micron size 15 Brown	400 ml	15 99 63	£42.80
Micron size 30 Mahogany	400 ml	15 99 65	£42.80
Micron size 45 Purple	400 ml	15 99 67	£42.80

	PACK	CAT NO.	PRICE
DIAMET SUSPENSIONS - Unique compound formulation, self lubricating for maximum economy, with trigger spray			
Micron size ¼ Grey	500 ml	15 99 33	£22.90
Micron size 1 Blue	500 ml	15 99 34	£22.90
Micron size 3 Green	500 ml	15 99 35	£22.90
Micron size 6 Yellow	500 ml	15 99 36	£22.90
Micron size 9 Red	500 ml	15 99 37	£22.90
Micron size 15 Brown	500 ml	15 99 38	£22.90

METPREP - diamond lubricant, water base - Yellow

Aerosol - pump-up	250 ml	15 50 00	£4.60
Bottle	2.5 L	15 50 02	£17.05

METPREP - diamond lubricant, water/oil base - Red

Bottle	1 L	15 50 12	£11.35
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METPREP - diamond lubricant, alcohol base - Blue

Bottle	1 L	15 50 08	£13.95
Bottle	2.5 L	15 50 09	£24.40

METPREP - diamond lubricant, oil base

Bottle	2.5 L	15 50 04	£17.05
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DISPENSERS

Trigger spray attachment	ea	15 51 02	£2.80
Pump up refillable aerosol 250 ml	ea	15 51 03	£3.50



Portable Electrolytic Polisher

Diamond Polishing Compounds

Polycrystalline

	PACK	CAT NO.	PRICE
DIAMOND compound in disposable syringes			
Micron size ¼	10 g	15 98 04	£36.25
Micron size 1	10 g	15 98 08	£36.25
Micron size 3	10 g	15 98 12	£43.70
Micron size 6	10 g	15 98 16	£60.50
Micron size 9	10 g	15 98 20	£60.50
Micron size 15	10 g	15 98 24	£60.50

DIASPRAY polycrystalline diamond water base aerosol, manually pressurised			
Micron size ¼	250 ml	15 42 41	£35.70
Micron size 1	250 ml	15 42 42	£35.70
Micron size 3	250 ml	15 42 43	£37.30
Micron size 6	250 ml	15 42 44	£38.00
Micron size 9	250 ml	15 42 45	£38.00
Micron size 15	250 ml	15 42 46	£38.00

DIAMOND SUSPENSIONS - polycrystalline, water base, with trigger spray			
Micron size ¼	400 ml	15 42 61	£53.15
Micron size 1	400 ml	15 42 62	£53.15
Micron size 3	400 ml	15 42 63	£55.50
Micron size 6	400 ml	15 42 64	£56.75
Micron size 9	400 ml	15 42 65	£56.75
Micron size 15	400 ml	15 42 66	£56.75

DIAMOND SUSPENSIONS - polycrystalline water base, refill bottles			
Micron size ¼	1L	15 41 41	£81.45
Micron size 1	1L	15 41 42	£81.45
Micron size 3	1L	15 41 43	£104.60
Micron size 6	1L	15 41 44	£107.00
Micron size 9	1L	15 41 45	£107.00
Micron size 15	1L	15 41 46	£107.00

POLYMET SUSPENSION - water base, special formula for dramatic reduction in polishing times.			
Micron size 1	400ml	15 98 82	£51.60
Micron size 3	400ml	15 98 83	£53.90
Micron size 6	400ml	15 98 84	£55.10
Micron size 9	400ml	15 98 85	£55.10
Micron size 15	400ml	15 98 86	£55.10



Oxide Polishing Compounds

Polishing Silica

	PACK	CAT NO.	PRICE
SILCO colloidal silica suspension, high concentration			
Micron size .06	1 L	15 99 97	£17.90
Micron size .06	5 L	15 99 99	£69.00
Micron size .06	25 L	15 99 98	£234.00



OPUS Non crystallising colloidal silica suspension, high concentration. Suitable for automatic peristaltic dosers.

Micron size .04	1 L	15 97 80	£25.65
Micron size .04	2.5 L	15 97 81	£62.50

Polishing Alumina

DRY POWDER ALPHA			
Micron size 1.0	500 g	15 99 80	£66.20
Micron size 1.0	2.0 Kg	15 99 81	£262.00
Micron size 0.3	500 g	15 99 82	£66.20
Micron size 0.3	2.0 Kg	15 99 83	£262.00

DRY POWDER GAMMA			
Micron size .05	500 g	15 99 84	£66.20
Micron size .05	2.0 Kg	15 99 85	£262.00

AQUEOUS SUSPENSIONS			
Alpha micron size 5.0	1 L	15 99 89	£34.00
Alpha micron size 1.0	1 L	15 99 91	£39.00
Alpha micron size 0.3	1 L	15 99 93	£39.00
Gamma micron size 0.05	1 L	15 99 95	£43.00



Electer Portable Grinder/Polisher Kit (including):

EMAX	Control Unit	
NK151	Super Torque Motor without power cord	
NK151C	Power Cord	
IC300	Angle Handpiece 90°	
PTO30	Rubber Disc holder 32mm dia.	
MECONS	Startup Consumable Kit	
NKBag	Carry bag	£1661.00

Electer Accessories and Spare Parts

NK151	Super Torque Motor without Power Cord	£633.00
NK151C	Power Cord	£67.00
KC300	Angle Handpiece 45°	£269.00
IC300	Angle Handpiece 90°	£269.00
IH300	Straight Handpiece	£292.00
RG01	Speed Reduction Gear 1/4 (Torque multiple x4)	£143.00
CN01	Extension Joint	£96.00
KBS100	Mini Belt Sander Attachment	£624.00
CHC	Replacement Collets 3.0mm	£67.00
PT030	Disc Holder Rubber 32mm dia. (Pack 5)	£37.00
PT6030	Flapper Abrasive Wheel 60x30x6mm (pack 10)	£49.00



Ultrasonic Cleaners

UNITS WITH TIMER ONLY

Capacity	Tank size (mm)	Model	Price
0.6L	150L x 80W x 65D	T80	£217.00
1.6L	150L x 135W x 100D	175	£354.00

UNITS WITH TIMER AND HEATER

2.3L	240L x 135W x 100D	375	£416.00
3.6L	240L x 135W x 150D	475	£486.00
4.9L	300L x 150W x 150D	575	£568.00

ULTRACLEAN I Ultrasonic Cleaning Fluid concentrate, suitable for ferrous materials. 1L 18 00 02 **£14.50**

ULTRACLEAN II Ultrasonic Cleaning Fluid concentrate, suitable for non-ferrous materials eg. Aluminium, Copper etc. 1L 18 00 04 **£14.50**

Portable Polishing Materials

	PACK	CAT NO.	PRICE
GRINDING DISCS 32mm Dia adhesive backed.			
Grit size P60	100	13 03 00	£20.80
Grit size P120	100	13 03 03	£20.80
Grit size P240	100	13 03 07	£20.80
Grit size P400	100	13 03 10	£20.80
Grit size P600	100	13 03 12	£20.80
Grit size P1200	100	13 03 15	£20.80

POLISHING CLOTHS 32mm Dia adhesive backed.

Durasilk PSA	25	16 03 52	£17.60
Trounoire PSA	25	16 03 95	£18.00
Cashmere Cloth PSA	25	16 03 70	£17.00
Planocloth PSA	25	16 03 61	£17.00
Alphacloth PSA	25	16 03 94	£17.00

DIAMOND COMPOUND in disposable syringes

Micron size 1 Blue	5 g	15 99 06	£7.75
Micron size 6 Yellow	5 g	15 99 14	£12.15
Micron size 15 Brown	5 g	15 99 22	£16.15

Portable Replicating Materials

Replica Sheet 35 micron,150mmx100mm	20	AAG255	£16.70
Replicating Tape 125 micron, 19mmx4.5m		AAG3882	£52.00
Glass Slides 1-1.2mm. 26x76mm	50	AAL4244	£12.50
Microset F1 for rapid results on horizontal or sloping surfaces	50ml	MC50	£26.70
Microset Dispensing Gun	ea	DG50	£35.70
Microset Nozzle Pack	10	NP10	£9.15

Vacuum Impregnation Units

MULTI-POUR model with indexing moulds (8 off), 2 pouring stations and vacuum pump ea M 6500001 **£2688.00**

SINGLE-POUR model including vacuum pump ea CA 9117 **£982.00**

Technomat Pressure Chamber

For use with CRYSTAL-KLEER Mounting Compound to produce glass clear mounts.ea 11 30 50 **£580.00**

Miscellaneous Items

SPECIMEN DRYER , bench mounting	ea	19 03 10	£492.00
SPECIMEN DRYER , hand held type	ea	19 03 00	£47.00
SPECIMEN LEVELLING PRESS , with height control of prepared surface	ea	19 99 04	£235.00
MICROSCOPE GLASS SLIDE (Thick)	10	19 04 05	£24.00
PLASTICINE for specimen levelling	500g	19 04 01	£8.50
MINIATURE FASTENER VICE	ea	C10050	£259.00
LENS TISSUE 10 x 15 cm, pack of 100	ea	19 04 02	£16.00
ELECTRIC SPECIMEN ENGRAVER including metal point	ea	19 00 00	£65.00
COTTON WOOL	500g	19 99 01	£7.30
VINYL GLOVES , disposable	100	19 99 05	£18.20
SELVYT CLOTH SQUARES 250x250mm with bound edges	10	16 99 99	£29.60
SPECIMEN PROTECTIVE LAQUER	400ml	11 30 25	£12.00

Vickers Reference Hardness Blocks

NOMINAL VICKERS REFERENCE HARDNESS BLOCK VALUES	PRICE
40 70 100 150 200 250 300 350 400 450	£291.00
500 550 600 650 700 750 800 850 900 950	
Standard Loads (Kg) available HV2 HV3 HV5 HV10 HV20 HV30 HV50 HV100	
Additional UKAS Load Calibrations for individual block	£136.50
UKAS Recalibrations of existing blocks (Pass or Fail)	£136.50
All blocks are supplied with UKAS Certification to BS EN ISO 6507-3 and ASTM E92	
Block size 64mm diameter x 15mm thickness	

NOMINAL LOW FORCE VICKERS & MICRO VICKERS REFERENCE HARDNESS BLOCK VALUES	PRICE
40 70 100 150 200 250 300 350 400 450	£391.00
500 550 600 650 700 750 800 850 900 950	
Low force loads available HV1 HV0.5 HV0.3 HV0.2 HV0.1 HV0.050 HV0.025 HV0.010	
Additional UKAS Load Calibrations for individual block	£164.00
UKAS Recalibrations of existing blocks (Pass or Fail)	£164.00
All blocks are supplied with UKAS Certification to BS EN ISO 6507-3.	
Calibrations to ASTM E384 by request only.	
Block size 30mm diameter x 10mm thickness	

Knoop Reference Hardness Blocks

NOMINAL LOW FORCE KNOOP & MICRO KNOOP REFERENCE HARDNESS BLOCK VALUES	PRICE
40 70 100 150 200 250 300 350 400 450	£391.00
500 550 600 650 700 750 800 850 900 950	
Low force loads available HK1 HK0.5 HK0.3 HK0.2 HK0.1 HK0.050 HK0.025 HK0.010	
Additional UKAS Load Calibrations for individual block	£164.00
Recalibrations of existing blocks (Pass or Fail)	£164.00
All blocks are supplied with a traceable laboratory certificate to ASTM E384	
Block size 30mm diameter x 10mm thickness	

Vickers & Knoop Macro/Micro Testing Indenters

INDENTER TYPE	REFERENCE NUMBER	UKAS CERTIFICATE	NO CERTIFICATE
MACRO VICKERS	VI 002 VI 006 VI 016 VI 017		
STANDARD TYPES:	VI 018 VI 019 VI 020	£237.00	£200.00
Repair of Macro Vickers Indenters (all types)		£182.00	£140.00
UKAS Certification of Macro Vickers Indenters all types (Pass or Fail)		£120.00	
MICRO VICKERS			
STANDARD TYPES:	VI 009 VI 012 VI 013 VI 014	£364.00	£328.00
NON STANDARD:	VI 010 VI 024	£419.00	£391.00
Repair of Micro Vickers Indenters (all types)		£191.00	£164.00
UKAS Certification of Micro Vickers Indenters all types (Pass or Fail)		£140.00	
MACRO KNOOP	KI 007 KI 008 KI 009	£237.00	£200.00
Repair of Macro Knoop Indenters (all types)		£182.00	£140.00
UKAS Certification of Macro Knoop Indenters all types (Pass or Fail)		£120.00	
MICRO KNOOP	KI 002 KI 003 KI 004 KI 005	£364.00	£328.00
Repair of Micro Knoop Indenters (all types)		£191.00	£164.00
UKAS Certification of Micro Knoop Indenters all types (Pass or Fail)		£140.00	

Rockwell & Superficial Reference Hardness Blocks

SCALE	NOMINAL REFERENCE BLOCK VALUES	PRICE
HRC	20 25 30 35 40 45 50 55 60 63 65 67	£140.00
HRA	60 63 65 68 70 73 76 78 81 83 84 85	£140.00
HRD	40 44 48 52 56 60 64 67 71 73 74 77	£140.00
HR15N	69 72 75 78 81 83 85 88 90 91 92 93	£140.00
HR30N	41 46 50 55 59 64 68 73 77 80 82 83	£140.00
HR45N	19 25 31 37 43 49 55 61 66 70 72 74	£140.00
Additional UKAS Scale Calibrations for individual block		£106.00
UKAS Recalibrations of existing blocks (Pass or Fail)		£106.00
All blocks are supplied with UKAS Certification to BS EN ISO 6508-3 and ASTM E18		
Block size 64mm diameter x 15mm thickness		
All above blocks will be supplied within +/-2 Rockwell points of the nominal value		

SCALE	NOMINAL REFERENCE BLOCK VALUES	PRICE
HRB	20 30 40 50 60 70 75 80 85 90 95 100	£140.00
HRA	22 26 31 35 40 45 47 50 53 55 59 62	£140.00
HRE	75 81 87 93 100	£140.00
HRF	74 80 86 91 97 100	£140.00
HRC	3 18 33 41 49 58 66 74 83	£140.00
HRH	94 98	£140.00
HRK	38 47 56 65 73 81 86 91 95 99	£140.00
HR15T	67 70 73 77 80 83 85 86 88 90 91 93	£140.00
HR30T	29 36 43 49 56 63 66 69 73 76 80 83	£140.00
HR45T	2 12 22 32 43 48 53 58 63 68 73	£140.00
Additional UKAS Scale Calibrations for individual block		£106.00
UKAS Recalibrations of existing blocks (Pass or Fail)		£106.00
All blocks are supplied with UKAS Certification to BS EN ISO 6508-3 and ASTM E18		
All reference block scales using 1/16" or 1/8" diameter balls are supplied calibrated as standard using a steel ball.		
Eg. HRB (S). The same scales can also be supplied using a carbide ball Eg. HRB (W) on request only.		
Block size 64mm diameter x 15mm thickness		
All above blocks will be supplied within +/-4 Rockwell points of the nominal value		

Rockwell Testing Indenters

INDENTER TYPE	REFERENCE NUMBER	UKAS CERTIFICATE	NO CERTIFICATE
ROCKWELL	RI 001 RI 002 RI 003 RI 004		
STANDARD TYPES:	RI 005 RI 006 RI 007 RI 009	£182.00	£140.00
	RI 012 RI 013 RI 014 RI 019		
	RI 020 RI 036		
NON STANDARD:	RI 034 RI 002 RI 003 RI 004	£246.00	£200.00
Repair of Rockwell Indenters (all types)		£140.00	£100.00
UKAS Certification of Rockwell Indenters all types (Pass or Fail)		£109.00	
All UKAS certified Rockwell Indenters will be supplied with a UKAS Certificate to BS EN ISO 6508-2 and ASTM E18			



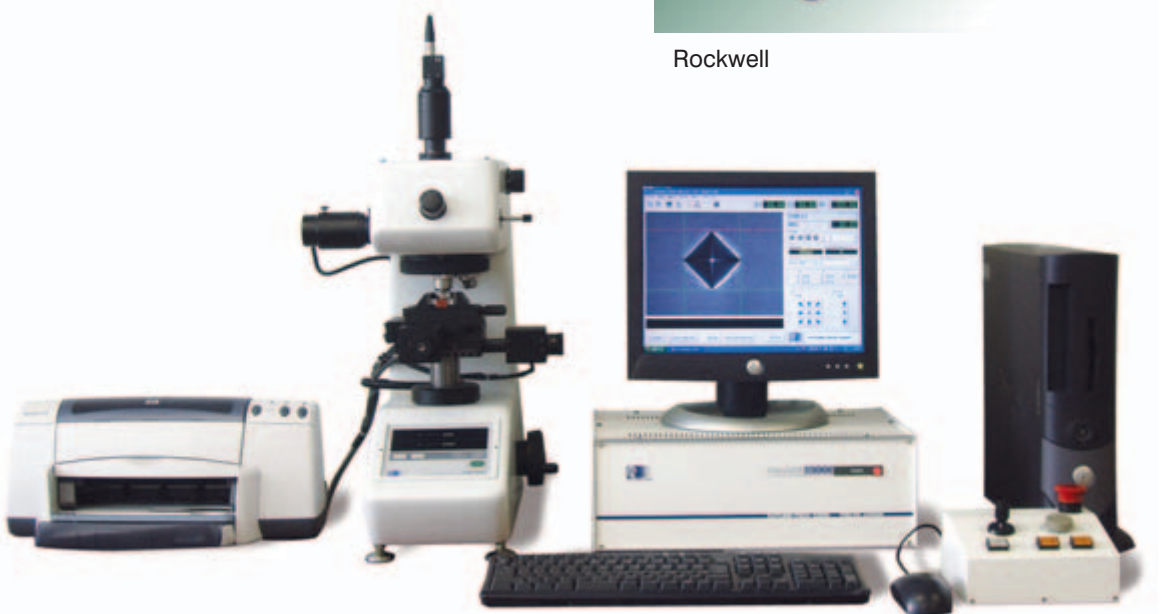
Macro Vickers



Micro Vickers



Rockwell



Fully Automatic Micro Hardness Tester

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