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DIOITAL ULTRASONIC CLEANER

MT C AND 1 MICROSONIC CLEANER

MT

Additional Instruments

Page

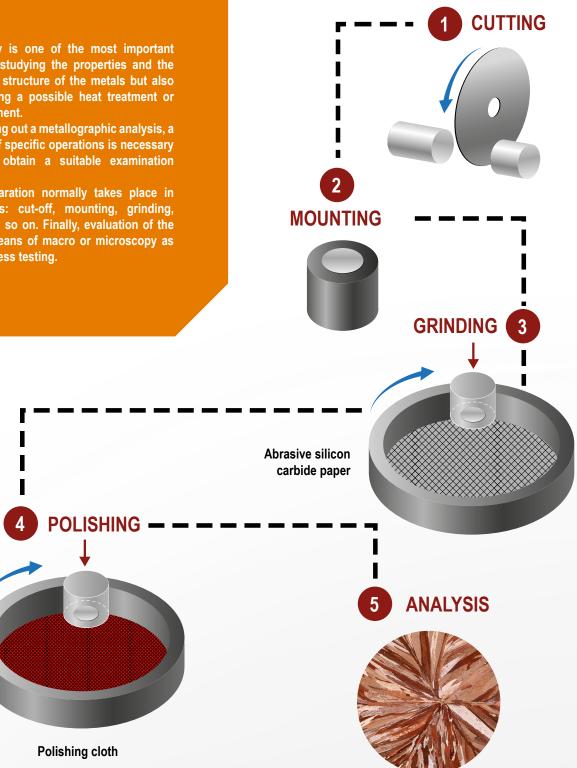


METALLOGRAPHY

Metallography is one of the most important sciences for studying the properties and the nature of the structure of the metals but also for highlighting a possible heat treatment or surface treatment.

Before carrying out a metallographic analysis, a succession of specific operations is necessary in order to obtain a suitable examination surface.

Sample Preparation normally takes place in various steps: cut-off, mounting, grinding, polishing and so on. Finally, evaluation of the sample by means of macro or microscopy as well as hardness testing.









Features

- > PLC controlled automatic metallographic cutting machine, suitable for large samples
- > Cutting chamber fully accessible from all directions
- > Three controlled axes, sample laser alignment system and cutting speed frequency convertion control
- > Two cutting principles: swing and continuous cutting
- > Cutting table provided with T-slots to assemble different vices
- > Touch screen 10" for displaying cutting data and samples positioning
- Cutting chamber equipped with internal LED illumination and ventilation system in order to increase visibilty during the process. Supplied with a cooling system complete with rinse channel and magnetic separator
- This series is suitable for quality control, automotive, aeronautical industry, scientific research institutes and universities.

Model		MEGACUT-120	MEGACUT-200	MEGACUT-300
Cutting ca	pacity	Max. ø 100mm	Max. ø 120mm	Max. ø 130mm
Cutting di	sc dimensions	Max. ø 380 x ø 32mm	Max. ø 400 x ø 32mm	Max. ø 400 x ø 32mm
Cutting de	epth	120mm	200mm	300mm
Working o	chamber LxW	780x950mm	780x1050mm	880x1300mm
T-slots tal	ole LxW	450x350mm	485x400mm	630x530mm
Clamping	caliper	120mm	200mm	300mm
Y axis tra	vel	250mm	300mm	420mm
Z axis trav	vel	160mm	230mm	230mm
Axes speed		3,5,8,18 mm/min customable	3,5,8,18 mm/min customable	3,5,8,18 mm/min customable
Speed		500÷2800rpm	500÷2800rpm	500÷2800rpm
Noise leve	el	<70dB	<70dB	<70dB
Operating	temperature	0÷30°C	0÷30°C	0÷30°C
Humidity	dity non-condensing <65%		<65%	<65%
Motor pov	ver	5500W	7500W	7500W
Power su	pply	400V ±10% - 50/60Hz - 3Ph	400V ±10% - 50/60Hz - 3Ph	400V ±10% - 50/60Hz - 3Ph
0 "	Capacity	1201	1201	1201
Cooling tank	Dimensions	800x900x850mm	800x900x850mm	800x900x850mm
	Weight	152kg	152kg	152kg
Maskini	Dimensions	1400x1000x1850mm	1550x1100x190mm	1650x1350x1900mm
Machine	Weight	1800kg	2200kg	2500kg

Standard accessories

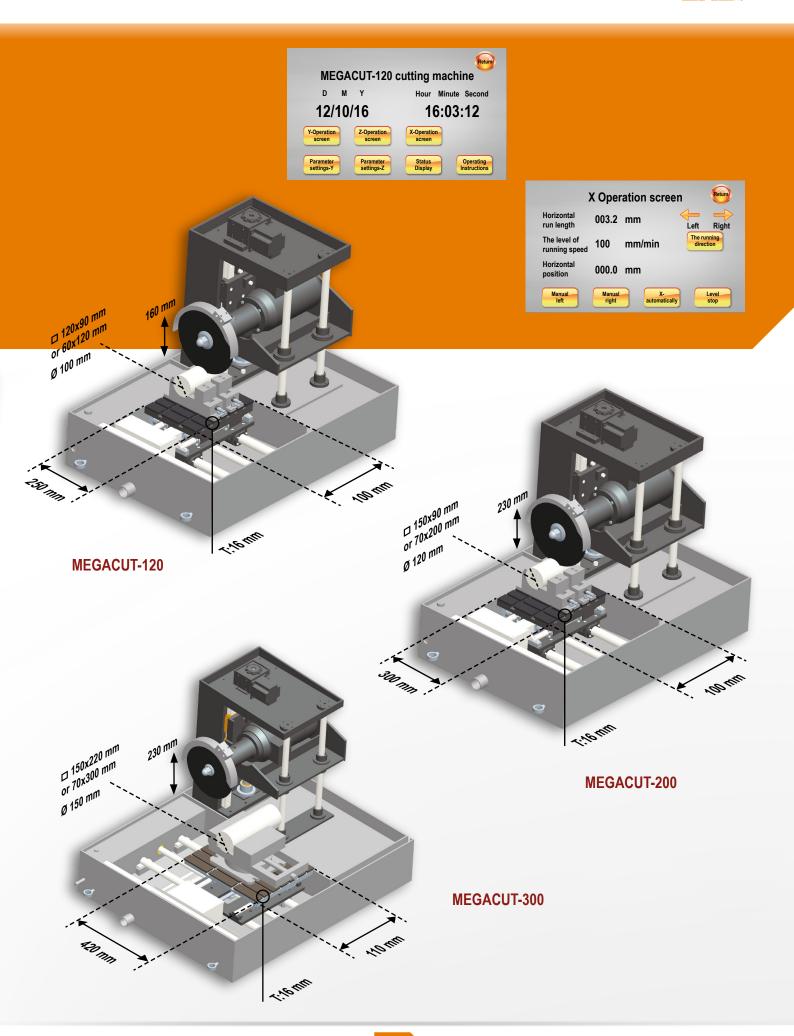
Clamp for metallic and non-metallic materials such as steel, iron, aluminium, copper, ceramics, crystals, rocks, etc. 120mm; cooling tank with pipes; spanners 41mm- 46mm; cutting disc ø 380x2 x ø 32

Optional accessories

195MEGA46

Vertical clamp for irregular shaped samples. Max. clamping 90mm. Suitable for all machines with 12mm T-slots.



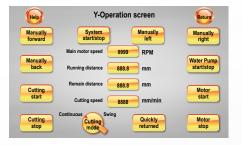




MAXICUT-90

Features

- Automatic/manual floor-type metallographic cutting machine, equipped with PLC control and touch screen for displaying cutting data and samples positioning
- Cutting table provided with T-slots to assemble different vices
- Adjustable main axis height to allow cutting disc wearing compensation, automatic return at the end of the cutting
- Cutting chamber equipped with internal LED illumination and ventilation system in order to increase the visibilty during the process. It is supplied with cooling system complete with rinse channel and magnetic separator
- Suitable for continuous cutting, in automatic mode, along with X and Y axes
- > Built-in safety features, internal safety device allows operation only if the cutting chamber is closed
- This series is suitable for quality control, scientific research institutes and universities.





Model		MAXICUT-90
Cutting ca	pacity	Max. ø 90mm
Cutting dis	sc dimensions	Max. ø 300 x ø 32mm
Cutting de	pth	90mm
Working c	hamber LxW	470x750mm
T-slots tab	le LxW	435x300mm
Speed		500÷3000rpm
Noise leve	el	<70dB
Operating	temperature	0÷30°C
Humidity r	non-condensing	<65%
Motor pow	ver	3000W
Power sup	pply	400V ±10% - 50/60Hz - 3Ph
Caaliaa	Capacity	881
Cooling tank	Dimensions	620x600x770mm
Latin	Weight	85kg
Machine	Dimensions	910x935x1350mm
IVIACITITIE	Weight	380kg

Standard accessories

Clamp for metallic and non-metallic materials such as steel, iron, aluminium, copper, ceramics, crystals, rocks, etc.; cooling tank with pipes; spanners 46mm- 24-30mm; cutting disc ø $300x2 \times g$ 32

Optional accessories

103MAXI21

Vertical clamp for irregular shaped samples. Max. clamping 90mm. Suitable for all machines with 12mm T-slots.



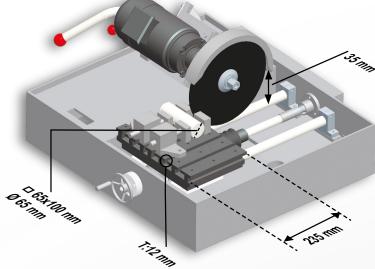
MAXICUT-65

Features

- > Automatic/manual floor-type metallographic cutting machine, equipped with PLC control and touch screen for displaying cutting data and samples positioning

 > Cutting table provided with T-slots to assemble different vices
- > The cutting chamber is equipped with an internal ventilation system to increase the visibilty during the process. It is supplied with 70 liters cooling system
- > Built-in safety features, internal safety device allows operation only if the cutting chamber is closed
- > Suitable also for cutting rocks and ceramic materials using diamond cutting discs
- > This series is suitable for quality control, scientific research institutes and universities.





	Pa	arameter settings	
Help	Cutting length 237 mm maximum	9999 mm	Return
	Cutting speed Recommended value of 3, 5, 8	9999 Mm/min	Spindle start
	Spindle speed setting 500-3000	9999 RPM	Spindle stop
	Return speed of 700 mm/min		
Co	ordinate zero	Turn off the light	Cutting End Back

Model		MAXICUT-65		
Cutting ca	pacity	Max. ø 65mm		
Cutting dis	sc dimensions	Max. ø 300 x ø 32mm		
Cutting de	pth	65mm		
Working c	hamber LxW	430x660mm		
T-slots tab	le LxW	350x230mm		
Speed		500÷3000rpm		
Noise leve		<60dB		
Operating	temperature	0÷30°C		
Humidity r	non-condensing	<65%		
Motor pow	ver .	2200W		
Power sup	pply	400V ±10% - 50/60Hz - 3Ph		
0	Capacity	601		
Cooling tank	Dimensions	590x360x580mm		
Lain	Weight	22kg		
Machine	Dimensions	800x760x1370mm		
- IVIACITITE	Weight	280kg		

Standard accessories

Clamp for metallic and non-metallic materials such as steel, iron, aluminium, copper, ceramics, crystals, rocks, etc.; cooling tank with pipes; spanners 46mm-24-30mm; cutting disc ø 300x2 x ø 32

Optional accessories

103MAXI21

Vertical clamp for irregular shaped samples. Max. clamping 90mm. Suitable for all machines with 12mm T-slots.



EASYCUT

Features

- > Manual floor-type multifunctional metallographic cutting
- machine, used for cutting irregular metallographic samples
 > Cutting table provided with T-slots to assemble different
- vices in addition to a double quick climping system

 > Built-in safety features, internal safety device allows the operation only if the cutting chamber is closed
- > Cutting chamber equipped with LED illumination and ventilation system in order to increase the visibility during
- > Supplied with cooling system to avoid the sample over
- > This series is suitable for quality control, scientific research institutes and universities.



Model		EASYCUT-100	EASYCUT-120	
Cutting ca	pacity	Max. ø 100mm	Max. ø 100mm	
Cutting dis	sc dimensions	Max. ø 350 x ø 32mm	Max. ø 350 x ø 32mm	
Cutting de	pth	100mm	120mm	
Working c	hamber LxW	680x780mm	680x780mm	
T-slots tab	le LxW	240x245mm	240x245mm	
Y-axis trav	rel	265mm	265mm	
Speed		2800rpm	2800rpm	
Noise leve	el	<75dB	<75dB	
Operating	temperature	0÷30°C	0÷30°C	
Humidity r	non-condensing	<65%	<65%	
Motor pow	/er	4000W	4000W	
Power sup	pply	400V ±10% - 50/60Hz - 3Ph	400V ±10% - 50/60Hz - 3Ph	
	Capacity	1001	1001	
Cooling tank	Dimensions	640x460x680mm	640x460x680mm	
laiik	Weight	50kg	50kg	
Machina	Dimensions	760x850x1400mm	760x850x1400mm	
Machine	Weight	380kg	380kg	

Standard accessories

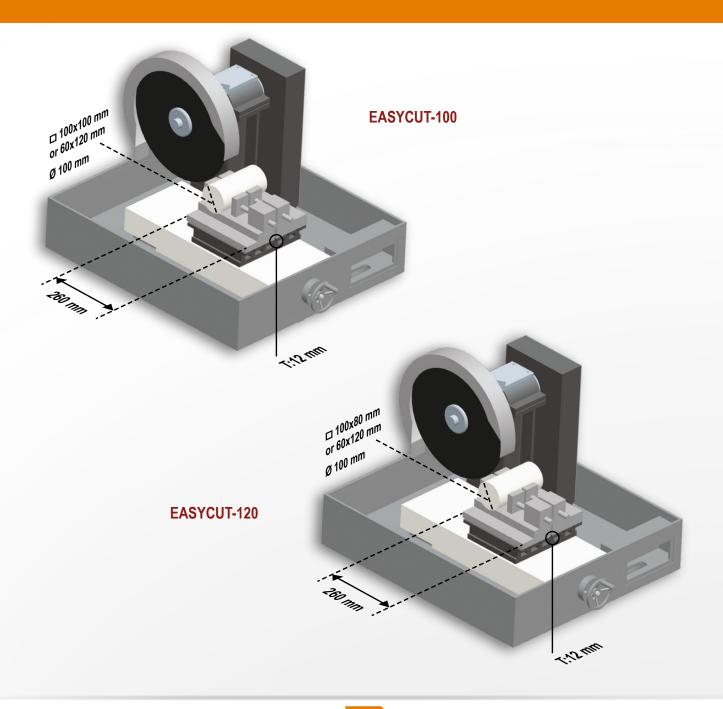
Clamp for metallic material, such as steel, iron, aluminium, copper, etc.; cooling tank with pipes; spanners 36mm-46mm; cutting disc ø 380x2.8xø32















Features

- > Fully-automatic cutting system complete with a roller table for lateral feeding of very long samples
- > It is equipped with large cutting table that can be used with cutting discs from ø 250mm to ø 400mm
- Cutting table provided with T-slots to assemble different vices
- > Built-in safety features, internal safety device allows operation only if the cutting chamber is closed
- > Supplied with an external cooling system
- Large inspection windows allows good visibility of cutting process.

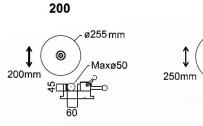
Standard accessories

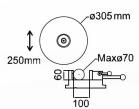
Clamp for metallic and non-metallic; cooling tank with pipes; spanners 41mm- 46mm; cutting disc

Optional accessories

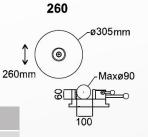
ROLLCUTroll

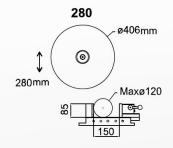
Rolling table for rollcut. Feed rack: 3000mm. Receive rack: 1500mm. The reiceving rack is equipped with a digital encoder for cutting length measurement





250





Model	Model ROLLCUT-200		ROLLCUT-250	ROLLCUT-260	ROLLCUT-280
Cutting ca	pacity	Max. ø 50mm	Max. ø 70mm	Max. ø 90mm	Max. ø 120mm
Cutting dis	sc dimensions	Max. ø 255 x ø 31,75mm	Max. ø 305 x ø 31,75mm	Max. ø 355 x ø 32mm	Max. ø 406 x ø 32mm
Cutting de	pth	200mm	250mm	260mm	280mm
Working cl	hamber LxW	460x250mm	460x250mm	460x250mm	620x380mm
T-slots tab	le LxW	300x200mm	300x200mm	300x200mm	390x315mm
Speed		2500 (50Hz); 3000 (60Hz) rpm			
Noise leve	l	70-80dB	70-80dB	70-80dB	70-80dB
Operating	temperature	0÷30°C	0÷30°C	0÷30°C	0÷30°C
Humidity n	on-condensing	<65%	<65	<65	<65
Motor pow	er	1500W	2200W	3700W	7500W
Power sup	pply	230/400V ±10% - 50/60Hz - 1/3Ph			
	Capacity	701	701	701	701
Cooling tank	Dimensions	650x480x700mm	650x480x700mm	650x480x700mm	650x480x700mm
laiik	Weight	45kg	45kg	45kg	45kg
Machina	Dimensions	1150x1500x1800mm	1100x1100x1800mm	1150x1100x1850mm	1200x1300x2000mm
Machine	Weight	310kg	330kg	355kg	390kg





DIAMONDCUT-500

Features

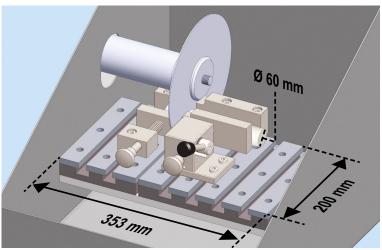
- > High precision, bench-top automatic cutting machine
- > Suitable for non-deforming materials cutting such as metals, electronic parts, ceramic, hard alloys

 High cutting accuracy and wide speed adjusting range

 Both diamond and resin cutting discs can be used

- > Equipped with a LCD display with menu operation, large cutting chamber and safety protections
- > Cutting table provided with T-slots to assemble different vices
- > Buit-in recirculating cooling system with external magnetic separator





Model		DIAMONDCUT-500		
Cutting ca	pacity	Max. ø 60mm		
Cutting di	sc diameter	100; 125; 150; 200mm		
Y axis trav	vel	200mm		
Noise leve	el	55dB		
Working o	hamber LxW	500x400mm		
T-slots tal	ole LxW	320x225mm, T-slot 12mm		
Speed		500÷3000rpm		
Feeding s	peed	0÷180mm/min (0.1mm increments)		
Operating	temperature	-10÷50°C		
Humidity I	non-condensing	95%		
Motor pov	ver	1500W		
Power su	oply	230V ±10% - 50/60Hz - 1Ph		
01	Capacity	361		
Cooling tank	Dimensions	300x500x450mm		
tank	Weight	20kg		
Machine	Dimensions	850x770x460mm		
IVIACIIIILE	Weight	140kg		

Standard accessories

Quick clamp jaw heigth 45mm; hexagonal keys; diamond cutting disc 200x1x32mm; cooling system complete with pipes

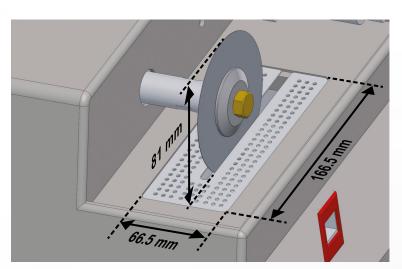


DIAMONDCUT-25

Features

- > Bench-top automatic diamond cutting machine, suitable for hard materials, especially suggested for artificial crystals > Equipped with four different vices, allows the best cutting angle
- > Easy to use with a compact body and safety protection
- > High level of positioning accuracy
- > Bult-in cooling system with tank





Model		DIAMONDCUT-25		
Cutting ca	pacity	Max. ø 25mm		
Cutting dis	sc diameter	100x0.5x12.7mm		
X axis trav	rel	12mm, step 0.1mm		
Noise leve	el	<65dB		
Working c	hamber LxW	196x104mm		
Speed		50÷800rpm		
Operating	temperature	5÷30°C		
Humidity r	non-condensing	≤85%		
Motor pow	ver .	100W		
Power sup	pply	230V ±10% - 50/60Hz - 1Ph		
Tank capa	city	0.51		
Machine	Dimensions	350x380x290mm		
iviachine	Weight	25kg		

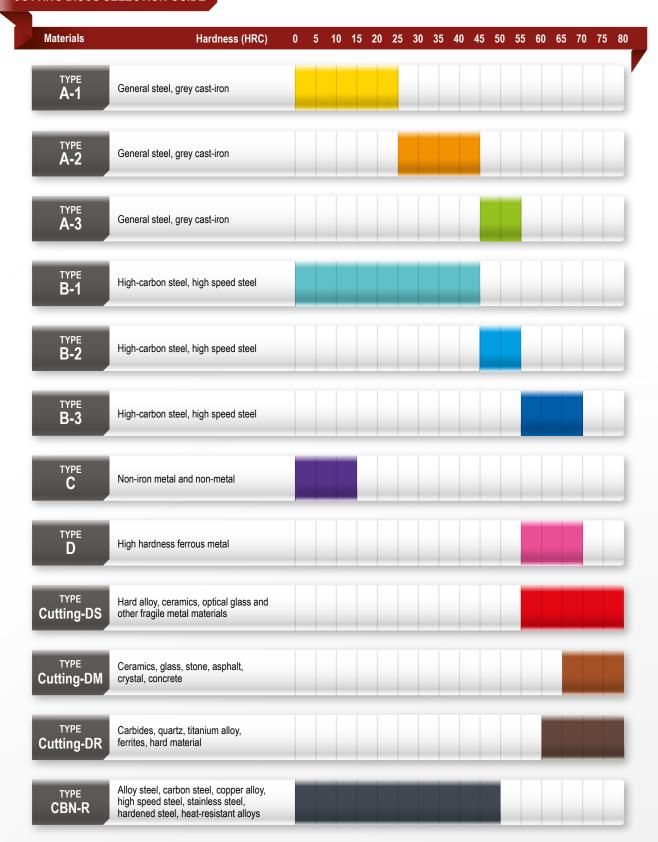
Standard accessories

Diamond cutting disc Ø100mm; Spanners





CUTTING DISCS SELECTION GUIDE





CONSUMABLES FOR CUTTING PROCESS

ABRASIVE CUTTING DISCS - Arbor 32mm

Code	Model	Diameter mm	Thickness mm	Q.ty per pack	Weight kg	Recommended for
90A1200	A1	200	0,8-2	10	1,5	
90A1250	A1	250	1,2-2	10	2	General steel and grey
90A1300	A1	300	1,5-2	10	3,3	cast-iron with hardness
90A1350	A1	350	2,5	10	5,4	<25 HRC
90A1400	A1	400	2,8	10	8,3	
90A2200	A2	200	0,8-2	10	1,5	
90A2250	A2	250	1,2-2	10	2	General steel and grey
90A2300	A2	300	1,5-2	10	3,3	cast-iron with hardness
90A2350	A2	350	2,5	10	5,4	25÷45 HRC
90A2400	A2	400	2,8	10	8,3	
90A3200	A3	200	0,8-2	10	1,5	
90A3250	A3	250	1,2-2	10	2	General steel and grey cast-iron with hardness 45÷55 HRC
90A3300	A3	300	1,5-2	10	3,3	
90A3350	A3	350	2,5	10	5,4	
90A3400	A3	400	2,8	10	8,3	



Cutting disc	cs Type -B					
Code	Model	Diameter mm	Thickness mm	Q.ty per pack	Weight kg	Recommended for
90B1200	B1	200	0,8-2	10	1,8	
90B1250	B1	250	1,2-2	10	2,4	High-carbon steel and
90B1300	B1	300	1,5-2	10	3,6	high-speed steel with
90B1350	B1	350	2,5	10	5,8	hardness <45 HRC
90B1400	B1	400	2,8	10	8,6	
		·				
90B2200	B2	200	0,8-2	10	1,8	
90B2250	B2	250	1,2-2	10	2,4	High-carbon steel and
90B2300	B2	300	1,5-2	10	3,6	high-speed steel with
90B2350	B2	350	2,5	10	5,8	hardness 45÷55 HRC
90B2400	B2	400	2,8	10	8,6	
		·				
90B3200	B3	200	0,8-2	10	1,8	
90B3250	B3	250	1,2-2	10	2,4	High-carbon steel and
90B3300	B3	300	1,5-2	10	3,6	high-speed steel with
90B3350	B3	350	2,5	10	5,8	hardness 55÷70 HRC
90B3400	B3	400	2,8	10	8,6	



CONSUMABLES FOR CUTTING PROCESS

Cutting discs Type -C						
Code	Model	Diameter mm	Thickness mm	Q.ty per pack	Weight kg	Recommended for
90C0200	С	200	0,8-2	10	1,3	
90C0250	С	250	1,2-2	10	1,9	Non-iron metal and
90C0300	С	300	1,5-2	10	2,8	non-metal with hardness ≤15 HRC
90C0350	С	350	2,5	10	4,9	
90C0400	С	400	2,8	10	7,5	

Cutting discs Type -D							
Code	Model	Diameter mm	Thickness mm	Q.ty per pack	Weight kg	Recommended for	
90D0200	D	200	0,8-2	10	2,3		
90D0250	D	250	1,2-2	10	2,8	High hardness ferrous	
90D0300	D	300	1,5-2	10	3,9	metal with hardness	
90D0350	D	350	2,5	10	6	55÷70 HRC	
90D0400	D	400	2,8	10	9,2		

Cooling liquid for cutting machines						
Code	Model	Quantity I	Quantity I Usage Weig			
1100101		1	Anti-oxidation-Cooling	1,3		
1100251		2,5	Anti-oxidation-Cooling	2,8		
1100501	Cooling-C	5	Anti-oxidation-Cooling	5,5		
1101001		10	Anti-oxidation-Cooling	10,5		
1100051		0,5	Anti-septic	0,8		





CONSUMABLES FOR CUTTING PROCESS

DIAMOND CUTTING DISCS

Diamond, edge sintering type, cutting discs							
Code	Model	Diameter mm	Arbor mm	Thickness mm	Q.ty per pack	Weight kg	Recommended for
1031000		100	20	0,5	1	0,1	Lland allow agramia
1031250		125	25,4	0,5	1	0,1	Hard alloy, ceramic material, optical glass
1031500	C	150	25,4	0,6	1	0,1	
1032000	Cutting-DS	200	32	1	1	0,2	and other fragile metal materials with
1032500		250	32	2	1	0,3	hardness 60÷82 HRC
1033500		350	32	2,5	1	0,5	Haluness 00-02 HING

Diamond, mo	Diamond, metal bond, cutting discs						
Code	Model	Diameter mm	Arbor mm	Thickness mm	Q.ty per pack	Weight kg	Recommended for
1000760		76	12,7	0,2	1	0,2	
1001000		100	12,7	0,5	1	0,2	Ceramics, glass,
1001250		125	12,7	0,5	1	0,2	
1001500	Cutting DM	150	12,7	0,6	1	0,3	stone, asphalt,
1001780	Cutting-DM	178	12,7	0,7	1	0,4	crystal, concrete with
1002000		200	32	0,9	1	0,6	hardness >62 HRC
1002500		250	32	1,2	1	0,8	
1003000		300	32	1,4	1	1,2	

Diamond, resin bond, cutting discs							
Code	Model	Diameter mm	Arbor mm	Thickness mm	Q.ty per pack	Weight kg	Recommended for
1011000		100	12,7	0,5	1	0,2	
1011250		125	12,7	0,5	1	0,2	Carbides.
1011500		150	12,7	0,6	1	0,3	quartz,titanium
1011780	Cutting-DR	178	12,7	0,7	1	0,4	alloy, ferrites,
1012000		200	32	0,9	1	0,5	hard material with
1012500		250	32	1,2	1	0,8	hardness >52 HRC
1013000		300	32	1,4	1	1,2	

CBN, resin b	CBN, resin bond, cutting discs							
Code	Model	Diameter mm	Arbor mm	Thickness mm	Q.ty per pack	Weight kg	Recommended for	
1021000		100	12,7	0,5	1	0,2	Alloy steels,carbon	
1021250		125	12,7	0,5	1	0,2	steels, copper alloy,	
1021500		150	12,7	0,6	1	0,3	high speed steel,	
1021780	CBN-R	178	12,7	0,7	1	0,4	stainless steel,	
1022000		200	32	0,9	1	0,5	hardening steels, heat	
1022500		250	32	1,2	1	0,8	resistent alloys with	
1023000		300	32	1,4	1	1,2	hardness <49 HRC	

Cooling liquid for micro-cutting						
Code	Model	Quantity I	Anti-rust mix	Usage	Weight kg	
1110101		1	4%	Lubrication-Anti-oxidation	1,3	
1110251	Coolina MC	2,5	4%	Lubrication-Anti-oxidation	2,8	
1110501	Cooling-MC	5	4%	Lubrication-Anti-oxidation	5,5	
1111001		10	4%	Lubrication-Anti-oxidation	10,5	

Dressing stone for diamond cutting discs					
Code	Model	Usage Q.ty per pack		Weight kg	
80DD000	Dressing Stone-CD	Metal and resin bond discs	1	0,8	











DIGIPRESS-200

Features

- > Fully automatic mounting press with touch screen for data setting such as heating temperature, heating time, cooling time, pressure
- Cylinders with an intermediate piston which makes possible to carry out 4 mounting operations at same time
 Adjustable piston height
- Different mold sizes available (ø 25mm, ø 30mm, ø 40mm, ø 50mm)
- > Automatic water cooling system.



Model	DIGIPRESS 225	DIGIPRESS 232	DIGIPRESS 240	DIGIPRESS 250
Mold diameter	ø 25mm	ø 30mm	ø 40mm	ø 50mm
Mounting quantity per time	4	4	4	4
Moulding temperature	200°C	200°C	200°C	200°C
Mounting time	10min	10min	10min	10min
Heating time to 180°C	2-3min	2-3min	2-3min	2-3min
Heating power	1500W	1500W	1500W	1500W
Cooling time	1 to 99min	1 to 99min	1 to 99min	1 to 99min
Pressure	20MPa	20MPa	20MPa	20MPa
Noise level	70dB	70dB	70dB	70dB
Operating temperature	0÷40°C	0÷40°C	0÷40°C	0÷40°C
Humidity non-condensing	<80%	<80%	<80%	<80%
Water inlet	ø 8mm	ø 8mm	ø 8mm	ø 8mm
Water outlet	ø 10mm	ø 10mm	ø 10mm	ø 10mm
Power supply	230V ±10% - 50/60Hz - 1Ph			
Dimensions	540x580x500mm	540x580x500mm	540x580x500mm	540x580x500mm
Weight	78kg	78kg	78kg	78kg

Standard accessories

Mounting powder; filler; inlet water pipe; outlet water pipe; hose clamp

Optional accessories

Chamber separator available on request



DIGIPRESS-100

Features

- > Fully automatic mounting press with touch screen for data setting such as heating temperature, heating time, cooling time, pressure
- One cylinder with an intermediate piston which makes possible to carry out 2 mounting operations at same time
- > Adjustable piston height
- Different mold sizes available (ø 25mm, ø 30mm, ø 40mm, ø 50mm)
- > Automatic water cooling system.



Model	DIGIPRESS 125	DIGIPRESS 132	DIGIPRESS 140	DIGIPRESS 150
Mold diameter	ø 25mm	ø 30mm	ø 40mm	ø 50mm
Mounting quantity per time	2	2	2	2
Moulding temperature	200°C	200°C	200°C	200°C
Mounting time	10min	10min	10min	10min
Heating time to 180°C	2-3min	2-3min	2-3min	2-3min
Heating power	1500W	1500W	1500W	1500W
Cooling time	1 to 99min	1 to 99min	1 to 99min	1 to 99min
Pressure	20MPa	20MPa	20MPa	20MPa
Noise level	70dB	70dB	70dB	70dB
Operating temperature	0÷40°C	0÷40°C	0÷40°C	0÷40°C
Humidity non-condensing	<80%	<80%	<80%	<80%
Water inlet	ø 8mm	ø 8mm	ø 8mm	ø 8mm
Water outlet	ø 10mm	ø 10mm	ø 10mm	ø 10mm
Power supply	230V ±10% - 50/60Hz - 1Ph			
Dimensions	410x480x500mm	410x480x500mm	410x480x500mm	410x480x500mm
Weight	65kg	65kg	65kg	65kg

Standard accessories

Mounting powder; filler; inlet water pipe; outlet water pipe; hose clamp

Optional accessories

Chamber separator available on request



ZETAPRESS M2D

Features

- > Automatic mounting press with large size LCD touch screen, microprocessor controlled for setting all process parameters such as, automatic pre-heating, heating, working pressure, cooling time

 One cylinder with intermediate piston which makes
- possible to carry out 2 mounting operations at same time

 Different mold sizes available (ø 25mm, ø 32mm, ø 40mm, ø 50mm), two sizes can be selected
- > Automatic water cooling system





Model	ZETAPRESS M2D
Mold diameter (2 sizes can be selected as standard configuration)	ø 25, ø 30, ø 40, ø 50mm
Mounting quantity per time	2
Moulding temperature	50÷300
Mounting time	<15min
Heating time to 100°C	8min
Heating time to 140°C	10min
Heating time to 180°C	12min
Heating power	1000W
Cooling time	3÷5min
Pressure	0÷72MPa
Noise level	65dB
Operating temperature	0÷30°C
Humidity non-condensing	<85%
Water inlet	8mm
Water outlet	13mm
Power supply	230V ±10% - 50/60Hz - 1Ph
Dimensions	630x520x520mm
Weight	120

Standard accessories

Two molds selected from: ø 25mm, ø 30mm, ø 40mm, ø 50mm; mounting powder; filler; inlet water pipe; outlet water pipe; hose clamp





VACUUM-X

Features

Designed to be used with porous samples.
 Allows the degassing of the material porosities and replacement with cold mounting resin
 Supplied with a fully enclosed working chamber and diaphragm pump.



Model	VACUUM-X
Vacuum chamber Dimensions	300x300x300mm
Vacuum level	0.087MPa
Noise level	66dB
Operating temperature	7÷40°C
Humidity non-condensing	65%
Motor power	180W
Power supply	230V ±10% - 50/60Hz - 1Ph
Dimensions	610x550x560mm
Weight	73kg

Standard accessories

Set of plastic pipes; epoxy resin; hardener; diaphragm pump



VACUUM-Y

Features

Designed to be used with porous samples.
 Allows the degassing of the material porosities and replacement with cold mounting resin
 Supplied with a fully enclosed transparent working chamber and diaphragm pump.



Model	VACUUM-Y
Vacuum chamber dimensions	ø 180x314mm
Vacuum level	0.087MPa
Noise level	66dB
Operating temperature	7÷40°C
Humidity non-condensing	65%
Motor power	180W
Power supply	230V ±10% - 50/60Hz - 1Ph
Dimensions	480x400x400mm
Weight	40kg

Standard accessories

Set of plastic pipes; epoxy resin; hardener; diaphragm pump

CONSUMABLES FOR MOUNTING PROCESS

Mounting is the second step of the metallographic sample preparation.

This procedure is recommended for small, fragile, particularly shaped or thin layered samples.

Samples are englobed into a resin for protection, handling and having uniform sizes to obtain the best grinding/polishing operations.

Depending on the materials, two techniques are available:

- hot mounting
- cold mounting





CONSUMABLES FOR MOUNTING PROCESS

SELECTION GUIDE

HOT MOUNTING

Model	Resin type	Hardness	Shrinkage	Temperature	Heating time	Cooling time	Resin properties	Recommended for
HotMresin-B	Phenolic	90 shore D	Low	150 to 180°C	3 to 5 min	2 to 4 min	Black phenolic lightly filled with glass fiber	Standard mounting media for soft materials
HotMresin-G	Phenolic	90 shore D	Low	150 to 180°C	3 to 5 min	2 to 4 min	Green phenolic	Standard mounting media for soft materials
HotMresin-R	Phenolic	90 shore D	Low	150 to 180°C	3 to 5 min	2 to 4 min	Red phenolic	Standard mounting media for soft materials
HotMresin-Br	Phenolic	90 shore D	Low	150 to 180°C	3 to 5 min	2 to 4 min	Brown phenolic	Standard mounting media for soft materials
HotMresin-Bgf	Phenolic, glass fiber	95 shore D	Low	150 to 180°C	3 to 5 min	2 to 4 min	Black phenolic with glass fiber	Standard mounting for medium-hard materials
HotMresin-CCB	Conductive phenolic	90 shore D	Low	150 to 180°C	3 to 5 min	2 to 4 min	Black phenolic with carbon, electrically conductive	Mounting media for soft to hard materials, for electrolytic polishing or SEM application
HotMresin-T	Acrylic	88 shore D	Low	180 to 190°C	7 to 9 min	5 to 6 min	Transparent acrylic	Mounting media for soft to medium materials, suitable when is required a transparent mold
HotMresin-CCBr	Conductive acrylic	90 shore D	Low	160 to 180°C	6 to 9 min	3 to 4 min	Brown acrylic with copper, electrically conductive	Mounting media for soft to hard materials, for electrolytic polishing
HotMresin-EB	Ероху	96 shore D	Very low	160 to 180°C	5 to 6 min	3 to 4 min	Black epoxy, very low removal rate	Hard materials, edge observation, surface deposit, coating



CONSUMABLES FOR MOUNTING PROCESS

	ing resins				
Code	Model	Color	Q.ty kg	Description	Weight kg
3000250			2,5		2,7
3001000	HotMresin-B		10	Phenolic resin, ligthly filled with glass fiber	10,4
3002500			20		26
3010250	HotMresin-G		2,5		2,7
3011000			10	Phenolic resin	10,4
3012500		20		26	
3020250			2,5	Phenolic resin	2,7
3021000	HotMresin-R		10		10,4
3022500			20		26
3030250			2,5		2,7
3031000	HotMresin-Br		10	Phenolic resin	10,4
3032500			20		26
					'
3080100			1		1,3
3080250	HotMresin-Bgf		2,5	Phenolic glass fiber resin	2,7
3081000			10		10,4
			'	'	1
3040100			1	Carbon conductive phenolic resin	1,3
3040250	HotMresin-CCB		2,5		2,7
		,			,
3050100			1		1,3
3050250	HotMresin-T		2,5	Acrylic transparent resin	2,7
3051000		O	10		10,4
		, ,			1
3060200	HotMresin-CCBr		2	Conductive acrylic copper resin	2,3
		'	'		1
3070100			1		1,3
3070250			2,5		2,7
3071000	HotMresin-EB		10	High quality epoxy resin	10,4
3071500			15		15,6
3072500			20		20,7

Mould release agent					
Code	Model	Q.ty ml	Description	Weight kg	
75RA000	Release agent	500	Spray SIL-JET	0,5	



CONSUMABLES FOR MOUNTING PROCESS

SELECTION GUIDE

COLD MOUNTING

Cold mounting								
Model	Resin type	Hardness	Shrinkage	Max. temperature	Curing time	Mixing ratio volume	Resin properties	Recommended for
ColdMresin-T	Acrylic	85 shore D	Low	85°C	8 to 10 min	2 volumes of powder + 1 volume of liquid	Translucent acrylic	Control/general use with fast mounting
ColdMresin-G	Acrylic	92 shore D	Very low	78°C	5 to 7 min	2 volumes of powder + 1 volume of liquid	Green acrylic	Hard materials with fast mounting
ColdMresin-B	Acrylic	90 shore D	No	85°C	7 to 10 min	2 volums of powder + 1 volume of liquid	Blue acrylic	Hard materials with fast mounting
ColdMresin-CC	Conductive acrylic	82 shore D	Low	75°C	18 to 20 min	1 volume of powder + 1 volume of liquid	Carbon conductive acrylic	SEM control or electrolytic polishing
ColdMresin-E	Ероху	84 shore D	No	75°C / 180°C	About 12 hours at 25°C / 30 min at 80°C	12% of hardener	Transparent epoxy	Porous materials observation edges and coating temperature sensitive materials



CONSUMABLES FOR MOUNTING PROCESS

Cold moun	ting resins					
Code	Model	Color	Q.ty	Description	Weight kg	Mixing ratio volume
20P0100			1 kg	High quality powder	1,2	
20P1000		0	10 kg	acrylic translucent resin	10,5	
20L0050	ColdMresin-T	0	0,5		1	2 volumes of powder + 1 volume of liquid
20L0100		0	11	High quality liquid acrylic translucent resin	1,5	
20L0500		0	51		5,6	
					1	
22P0100			1 kg	High quality powder	1,2	
22P1000			10 kg	acrylic green resin	10,5	
22L0050	ColdMresin-G		0,5 I	High quality liquid acrylic green resin	1	2 volumes of powder + 1 volume of liquid
22L0100			11		1,5	
22L0500			51		5,6	
23P0100			1 kg	Very high quality powder acrylic blue resin	2,4	
23P1000			10 kg		0,7	
23L0050	ColdMresin-B		0,5		0,7	2 volums of powder + 1 volume of liquid
23L0100			11	Very high quality liquid acrylic blue resin	1,2	
23L0500			51		5,6	
		1			1	
25L0100	ColdMresin-E		11	High quality epoxy highly transparent resin	1,3	120ml of Hardner-E + 1I epoxy
26P0100	ColdMresin-CC		1 kg	Powder acrylic carbon conductive resin	1,3	1 volume of powder + 1 volume of liquid
26L0100	COldivil esii i-CC		11	Liquid acrylic carbon conductive resin	1,3	1 volume of powder + 1 volume of liquid

Hardener for epoxy resin						
Code	Model	Color	Q.ty	Description	Weight kg	Mixing ratio volume
25L0100	ColdMresin-E	0	11	High quality epoxy highly transparent resin	1,3	120ml of Hardner-E + 1I epoxy

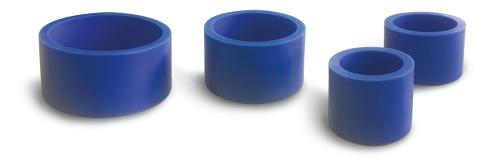
Code	Model	Q.ty ml	Description	Weight kg
25HE250	Hardner-E for 25L0100	250	Hardener for epoxy resin	0,5





CONSUMABLES FOR MOUNTING PROCESS

Mold C Molds for cold n	Mold C Molds for cold mounting process						
Code	Diameter mm	Lenght mm	Width mm	Height mm	Description	Q.ty/Pack	Weight kg
5802025	25	1	1	27		5	0,3
5802030	30	1	1	27	Polypropilene mold	5	0,3
5802040	40	1	1	27		5	0,2
5800025	25	1	1	23		5	0,3
5800030	30	1	1	25		5	0,3
5800040	40	1	1	30		5	0,3
5800050	50	1	1	30	Lligh quality siliage mold	3	0,3
5800060	60	1	1	35	High quality silicon mold	3	0,3
5801055	1	55	30	22		3	0,4
5801070	1	70	40	22		3	0,4
5801100	1	100	50	22		3	0,5







BELTGRIND-2

Features

- > Bench-top wet abrasive belt grinding machine suitable for spectroscopy samples analysis
 > Double abrasive belt station

- Working time 2 minutes approx
 Widely used for physical and chemical inspections in metallographic laboratories.



Model	BELTGRIND-2
Station	2
Abrasive belt dimensions WxL	100x920mm
Motor speed	1400rpm
Belt speed	768mm/min
Center distance	255mm
Noise level	<65dB
Operating temperature	0÷30°C
Humidity non-condensing	85%
Water inlet	ø 6mm
Water outlet	ø 20mm
Motor power	500W
Power supply	400V ±10% - 50/60Hz - 3Ph
Dimensions	550x570x320mm
Weight	56kg

Standard accessories

Abrasive belts 100x920mm 2pcs; inlet water pipe; outlet water pipe; hose clamp

CONSUMABLES

Abrasive-LBT Abrasive belts

Code	Dimension LxW mm	Grit FEPA-P (ANSI/CAM)	Description	Q.ty/pack	Weight kg
7900060	920x100	P60 (60)		50	1
7900120	920x100	P120 (120)		50	1
7900180	920x100	P180 (180)	Abrasive belt for spectroscopy sample preparation	50	1
7900240	920x100	P240 (240)		50	1
7900320	920x100	P320 (280)		50	1
7900400	920x100	P400 (320)		50	1



BELTGRIND-1

Features

- > Bench-top wet abrasive belt grinding machine

- suitable for spectroscopy samples analysis
 Single abrasive belt station
 Working time 2 minutes approx
 Widely used for physical and chemical inspections in metallographic laboratories.



Model	BELTGRIND-1
Station	1
Abrasive belt dimensions WxL	100x920mm
Motor speed	1400rpm
Belt speed	768mm/min
Center distance	255mm
Noise level	<65dB
Operating temperature	0÷30°C
Humidity non-condensing	85%
Water inlet	ø 6mm
Water outlet	ø 20mm
Motor power	500W
Power supply	400V ±10% - 50/60Hz - 3Ph
Dimensions	550x570x320
Weight	56

Standard accessories

Abrasive belt 100x920mm; inlet water pipe; outlet water pipe; hose clamp





QUANTUMPOL-2

Features

- > Abrasive disc grinding machine suitable for spectroscopy samples analysis
- > Compact floor structure, double grinding discs with indipendent controls
- > Stepless rotational speed
- > Equipped with an internal vacuum cleaner for dust removal during operation
- > Widely used for physical and chemical inspections in metallographic laboratories.



Model	QUANTUMPOL-2
Platen	2
Disc dimension	ø 300mm
Platen speed	100÷1400 stepless or four speeds: 300, 600, 900, 1400rpm
Noise level	70dB
Operating temperature	0÷30°C
Humidity non-condensing	65<%
Motor power	1100W
Power supply	230V ±10% - 50/60Hz - 1Ph
Dimensions	820x440x940mm
Weight	115kg

Standard accessories

Platen ø 300mm 2pcs; abrasive paper ø 300mm 180# 2pcs; abrasive paper ø 300mm 400# 2pcs; abrasive paper ø 300mm 800# 2pcs;

Optional accessories

SHM-100

Sample holder for round specimens (diameter on request).
Mechanical type, with adjustable samples height.

CONSUMABLES

Abrasive-Q Grinding discs for QUANTUMPOL-2

Code	Diameter mm	Grit FEPA-P (ANSI/CAM)	Description	Q.ty/pack	Weight kg
7930046	300	P46 (46)		50	1,8
7930060	300	P60 (60)		50	1,8
7930080	300	P80 (80)		50	1,8
7930100	300	P100 (100)	Abrasive disc for spectroscopy sample preparation	50	1,8
7930120	300	P120 (120)		50	1,8
7930180	300	P180 (180)		50	1,8
7930240	300	P240 (240)		50	1,8





POLITOUCH 2H

Features

- Automatic double platen grinding/polishing machine
 Equipped with automatic head to polishing process up to 6 samples at the same time. Possibility to choose different samples holders as standard configuration

 > Platens and automatic head controlled by LCD touch
- screen panel
- > DC brushless motor, stepless speeds
- > Cooling system to prevent sample overheating
- > Recommended for scientific research institutes, metallographic laboratories and universities.



Model	POLITOUCH 2H/250	POLITOUCH 2H/300
Platen	2	2
Platen controls	Double	Double
Platen diameter	250mm	300mm
Platen speed	100÷1000 stepless or four speeds 250, 500, 750, 1000rpm	100÷1000 stepless or four speeds 250, 500, 750, 1000rpm
Platen rotational direction	Clockwise/Counterclockwise	Clockwise/Counterclockwise
Torque	5.5Nm	5.5Nm
Head rotational direction	Clockwise	Clockwise
Head speed	30÷120rpm	30÷120rpm
Sample holder	1 model selected from sample holder table	1 model selected from sample holder table
Sample holding force	0÷0.7MPa	0÷0.7MPa
Max. sample height	40mm	40mm
Head motor power	100W	100W
Noise level	60dB	60dB
Operating temperature	0÷30°C	0÷30°C
Humidity non-condensing	<65%	<65%
Water inlet	ø 12mm	ø 12mm
Water outlet	ø 32mm	ø 32mm
Inlet air pressure	0.5MPa	0.5MPa
Air connection	ø 6mm	ø 6mm
Motor power	1100W	1100W
Power supply	230V ±10% - 50/60Hz - 1Ph	230V ±10% - 50/60Hz - 1Ph
Dimensions	900x725x760mm	900x725x760mm
Weight	115kg	115kg

Standard accessories		
POLITOUCH 2H/250	Sample holder; abrasive paper ø 250mm 180# 2pcs; abrasive paper ø 250mm 400# 2pcs; abrasive paper ø 250mm 800# 2pcs; cover 2pcs; sealing ring; inlet water pipe; outlet water pipe	

Standard accessories			
POLITOUCH 2H/300	Sample holder; abrasive paper ø 300mm 180# 2pcs; abrasive paper ø 300mm 400# 2pcs; abrasive paper ø 300mm 800# 2pcs; cover 2pcs; sealing ring; inlet water pipe; outlet water pipe		

Optional accessories		
Model	Description	
D-1	Automatic dispenser for diamond/ alumina/silica products	
LV-21	Sample leveler plate	
PR-XX	Plastic ring reduction selected from ø 22 up to ø 45mm	









SAMPLE HOLDERS







SPECIAL SAMPLE HOLDERS













Sample holders			
Model	Number of samples	Holes diameter (mm)	
ZH-22	6	ø 22	
ZH-25	6	ø 25 (on request)	
ZH-30	6	ø 30	
ZH-32	6	ø 32 (on request)	
ZH-40	6	ø 40 (on request)	
ZH-45	6	ø 45	
ZH-50	6	ø 50 (on request)	

Special sample holders (on request)		
Model	Number of samples	Holes diameter (mm)
ZA-322	3	ø 22
ZA-325	3	ø 25
ZA-330	3	ø 30
ZA-332	3	ø 32
ZA-340	3	ø 40
ZA-345	3	ø 45
ZA-350	3	ø 50
ZA-422	4	ø 22
ZA-425	4	ø 25
ZA-430	4	ø 30
ZA-432	4	ø 32
ZA-440	4	ø 40
ZA-445	4	ø 45
ZA-450	4	ø 50
ZA-522	5	ø 22
ZA-525	5	ø 25
ZA-530	5	ø 30
ZA-532	5	ø 32
ZA-540	5	ø 40
ZA-545	5	ø 45
ZA-550	5	ø 50
ZA-822	8	ø 22
ZA-825	8	ø 25
ZA-830	8	ø 30
ZA-332	8	ø 32

Sample holders customization according to samples shapes, on request



POLITOUCH 1H

Features

- > Automatic single platen grinding/polishing machine
- > Equipped with automatic head to polishing process up to 6 samples at the same time. Possibility to choose different samples holders as standard configuration

 Platen and automatic head controlled by LCD touch
- screen panel
- > DC brushless motor, stepless speeds
- Cooling system to prevent sample overheatingRecommended for scientific research institutes, metallographic laboratories and universities.



Model	POLITOUCH 1H/250	POLITOUCH 1H/300
Platen	1	1
Platen diameter	250mm	300mm
Platen speed	100÷1000 stepless	100÷1000 stepless
Platen rotational direction	Clockwise/Counterclockwise	Clockwise/Counterclockwise
Torque	5.5Nm	5.5Nm
Head rotational direction	Clockwise	Clockwise
Head speed	20÷120rpm stepless	20÷120rpm stepless
Sample holder	1 model selected from sample holder table	1 model selected from sample holder table
Sample holding force	0÷0.7MPa	0÷0.7MPa
Max. sample height	40mm	40mm
Head motor power	200W	200W
Noise level	60dB	60dB
Operating temperature	0÷3°C	0÷30°C
Humidity non-condensing	<65%	<65%
Water inlet	ø 12mm	ø 12mm
Water outlet	ø 32mm	ø 32mm
Inlet air pressure	0.5MPa	0.5MPa
Air connection	ø 6mm	ø 6mm
Motor power	1100W	1100W
Power supply	230V ±10% - 50/60Hz - 1Ph	230V ±10% - 50/60Hz - 1Ph
Dimensions	500x725x760mm	500x725x760mm
Weight	96kg	96kg

Standard accessories		
POLITOUCH 1H/250	Sample holder; abrasive paper ø 250mm 180# 2pcs; abrasive paper ø 250mm 400# 2pcs; abrasive paper ø 250mm 800# 2pcs; cover; sealing ring; inlet water pipe; outlet water pipe	

Standard accessories			
POLITOUCH 1H/300	Sample holder; abrasive paper ø 300mm 180# 2pcs; abrasive paper ø 300mm 400# 2pcs; abrasive paper ø 300mm 800# 2pcs; cover; sealing ring; inlet water pipe; outlet water pipe		

Optional accessories		
Model	Description	
D-1	Automatic dispenser for diamond/ alumina/silica products	
LV-21	Sample leveler plate	
PR-XX	Plastic ring reduction selected from ø 22 up to ø 45mm	









SAMPLE HOLDERS







SPECIAL SAMPLE HOLDERS













Sample holders			
Model	Number of samples	Holes diameter (mm)	
ZH-22	6	ø 22	
ZH-25	6	ø 25 (on request)	
ZH-30	6	ø 30	
ZH-32	6	ø 32 (on request)	
ZH-40	6	ø 40 (on request)	
ZH-45	6	ø 45	
ZH-50	6	ø 50 (on request)	

Special sample holders (on request)		
Model	Number of samples	Holes diameter (mm)
ZA-322	3	ø 22
ZA-325	3	ø 25
ZA-330	3	ø 30
ZA-332	3	ø 32
ZA-340	3	ø 40
ZA-345	3	ø 45
ZA-350	3	ø 50
ZA-422	4	ø 22
ZA-425	4	ø 25
ZA-430	4	ø 30
ZA-432	4	ø 32
ZA-440	4	ø 40
ZA-445	4	ø 45
ZA-450	4	ø 50
ZA-522	5	ø 22
ZA-525	5	ø 25
ZA-530	5	ø 30
ZA-532	5	ø 32
ZA-540	5	ø 40
ZA-545	5	ø 45
ZA-550	5	ø 50
ZA-822	8	ø 22
ZA-825	8	ø 25
ZA-830	8	ø 30
ZA-332	8	ø 32

Sample holders customization according to samples shapes, on request



POLITOUCH 2D

Features

- > Manual double platen grinding/polishing machine, fully programmable by LCD touch > Platen Ø 250mm or Ø 300mm
 > DC brushless motor, stepless speed

- > Cooling system to prevent sample overheating
- > Recommended for scientific research institutes, metallographic laboratories and universities.

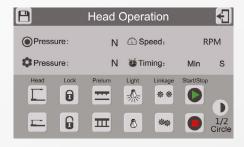


Model	POLITOUCH 2D/250	POLITOUCH 2D/300
Platen	2	2
Platen controls	Double	Double
Platen diameter	250mm	300mm
Platen speed	100÷1000 stepless or four speeds 250, 500, 750, 1000rpm	100÷1000 stepless or four speeds 250, 500, 750, 1000rpm
Platen rotational direction	Clockwise/Counterclockwise	Clockwise/Counterclockwise
Torque	5.5Nm	5.5Nm
Noise level	<60dB	<60dB
Operating temperature	0÷30°C	0÷30°C
Humidity non-condensing	<65%	<65%
Water inlet	ø 12mm	ø 12mm
Water outlet	ø 32mm	ø 32mm
Motor power	1100W	1100W
Power supply	230V ±10% - 50/60Hz - 1Ph	230V ±10% - 50/60Hz - 1Ph
Dimensions	500x725x360 mm	500x725x360mm
Weight	55kg	55kg

Standard accessories		
POLITOUCH 2D/250	Abrasive paper ø 250mm 180# 2pcs; abrasive paper ø 250mm 400# 2pcs; abrasive paper ø 250mm 800# 2pcs; cover; sealing ring; inlet water pipe; outlet water pipe	

Standard accessories		
POLITOUCH 2D/300	Abrasive paper ø 300mm 180# 2pcs; abrasive paper ø 300mm 400# 2pcs; abrasive paper ø 300mm 800# 2pcs; cover; sealing ring; inlet water pipe; outlet water pipe	

Optional accessories		
Model	Description	
D-1	Automatic dispenser for diamond/ alumina/silica products	
SHM-100	Sample holder for round specimens (diameter on request). Mechanical type, with adjustable samples height.	





POLITOUCH 1D

Features

- > Manual single platen grinding/polishing machine, fully programmable by LCD touch screen control panel
- > Platen ø 250mm or ø 300mm

- DC brushless motor, stepless speed
 Cooling system to prevent sample overheating
 Recommended for scientific research institutes, metallographic laboratories and universities.

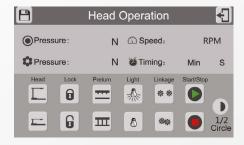


Model	POLITOUCH 1D/250	POLITOUCH 1D/300
Platen	1	1
Platen diameter	250mm	300mm
Platen speed	100÷1000 stepless or four speeds 250, 500, 750, 1000rpm	100÷1000 stepless or four speeds 250, 500, 750, 1000rpm
Platen rotational direction	Clockwise/Counterclockwise	Clockwise/Counterclockwise
Torque	5.5Nm	5.5Nm
Noise level	<60dB	<60dB
Operating temperature	0÷30°C	0÷30°C
Humidity non-condensing	<65%	<65%
Water inlet	ø 12mm	ø 12mm
Water outlet	ø 32mm	ø 32mm
Motor power	1100W	1100W
Power supply	230V ±10% - 50/60Hz - 1Ph	230V ±10% - 50/60Hz - 1Ph
Dimensions	500x725x360 mm	500x725x360mm
Weight	55kg	55kg

Standard accessories		
POLITOUCH 1D/250	Abrasive paper ø 250mm 180# 2pcs; abrasive paper ø 250mm 400# 2pcs; abrasive paper ø 250mm 800# 2pcs; cover; sealing ring; inlet water pipe; outlet water pipe	

Standard accessories		
POLITOUCH 1D/300	Abrasive paper ø 300mm 180# 2pcs; abrasive paper ø 300mm 400# 2pcs; abrasive paper ø 300mm 800# 2pcs; cover; sealing ring; inlet water pipe; outlet water pipe	

Optional accessories		
Model	Description	
D-1	Automatic dispenser for diamond/ alumina/silica products	
SHM-100	Sample holder for round specimens (diameter on request). Mechanical type, with adjustable samples height.	





POLI-2HX

Features

- > Automatic double platen ø 250mm grinding/polishing machine
- > Equipped with automatic head for polishing processes up to 6 samples at the same time. Possibility to choose two different samples holders as a standard configuration
 > Platen and automatic head controlled by digital LCD panels
- > Stepless speed and three level constant speed

- Fully programmable, 8 steps process control with automatic stop
 Cooling system to prevent sample overheating
 Recommended for scientific research institutes, metallographic laboratories and universities.



Model	POLI-2HX/250
Platen	2
Platen diameter	250mm
Platen speed	0÷1000rpm
Platen rotational direction	Clockwise/Counterclockwise
Torque	5Nm
Head rotational direction	Counterclockwise
Head speed	50÷200rpm
Sample holder	1 model selected from sample holder table
Sample holding force	0.2÷0.4MPa
Max. sample height	45mm
Head motor power	750W
Noise level	50dB
Operating temperature	0÷30°C
Humidity non-condensing	80%
Water inlet	ø 6mm
Water outlet	ø 25mm
Inlet air pressure	0.5-0.8MPa
Air connection	ø 4
Motor power	550W
Power supply	230V ±10% - 50/60Hz - 1Ph
Dimensions	430x760x610mm
Weight	74kg

XH-30 XH-40 XH-45 XH-50

Standard accessories

1 Sample holder; magnetic plate Ø250mm 2pcs; anti-sticky disc Ø250mm 2pcs; adhesive grinding paper Ø250mm, 320# 10pcs; adhesive grinding paper Ø250mm, 1000# 10pcs; inlet water pipe; outlet water pipe

Optional accessories		
Model	Description	
D-1	Automatic dispenser for diamond/ alumina/silica products	
LV-21	Sample leveler plate	
PR-XX	Plastic ring reduction selected from ø 22 up to ø 45mm	

Sample holders		
Model	Number of sample	Holes diameter (mm)
XH-22	6	ø 22
XH-30	6	ø 30
XH-32	6	ø 32
XH-40	6	Three ø 30; three ø 40
XH-45	6	Three ø 30; three ø 45
XH-50	6	Three ø 30; three ø 50



POLI-1HX

Features

- > Automatic single platen ø 250mm grinding/polishing machine
- > Equipped with automatic head for polishing processes up to 6 samples at the same time. Possibilty to choose two different samples holders as a standard configuration

 > Platen and automatic head controlled by digital LCD panels

 > Stepless speed and three level constant speed

- > Fully programmable, 8 steps process control with automatic stop
- Cooling system to prevent sample overheating
 Recommended for scientific research institutes, metallographic laboratories and universities.



Model	POLI-1HX/250
Platen	1
Platen diameter	250mm
Platen speed	0÷1000rpm
Platen rotational direction	Clockwise/Counterclockwise
Torque	5Nm
Head rotational direction	Counterclockwise
Head speed	50÷200rpm
Sample holder	1 model selected from sample holder table
Sample holding force	0.2÷0.4MPa
Max. sample height	45mm
Head motor power	750W
Noise level	50dB
Operating temperature	0÷30°C
Humidity non-condensing	80%
Water inlet	ø 6mm
Water outlet	ø 25mm
Inlet air pressure	0.5-0.8MPa
Air connection	ø 4
Motor power	550W
Power supply	230V ±10% - 50/60Hz - 1Ph
Dimensions	430x760x610mm
Weight	74kg

XH-30 XH-40 XH-45 XH-50

Standard accessories

1 Sample holder; magnetic plate Ø250mm; anti-sticky disc Ø250mm; adhesive grinding paper Ø250mm, 320# 10pcs; adhesive grinding paper Ø250mm, 1000# 10pcs; inlet water pipe; outlet water pipe

Optional accessories		
Model	Description	
D-1	Automatic dispenser for diamond/ alumina/silica products	
LV-21	Sample leveler plate	
PR-XX	Plastic ring reduction selected from ø 22 up to ø 45mm	

Sample holders					
Model	Number of sample	Holes diameter (mm)			
XH-22	6	ø 22			
XH-30	6	ø 30			
XH-32	6	ø 32			
XH-40	6	Three ø 30; three ø 40			
XH-45	6	Three ø 30; three ø 45			
XH-50	6	Three ø 30; three ø 50			



POLI-2X

Features

- > Manual double platen ø 250mm grinding/polishing

- machine, fully programmable

 > Platen LCD digital control panel

 > Cooling system to prevent sample overheating

 > Recommended for scientific research institutes, metallographic laboratories and universities.



Model	POLI-2X/250
Platen	2
Platen diameter	250mm
Platen speed	50÷1000rpm
Platen rotational direction	Clockwise/Counterclockwise
Torque	5Nm
Noise level	<40dB
Operating temperature	0÷30
Humidity non-condensing	<80°C
Water inlet	ø 6mm
Water outlet	ø 25mm
Motor power	550W
Power supply	230V ±10% - 50/60Hz - 1Ph
Dimensions	710x760x330mm
Weight	57kg

Standard accessories

Magnetic plate Ø250mm; anti-sticky disc Ø250mm; adhesive grinding paper Ø250mm, 320# 10pcs; adhesive grinding paper Ø250mm, 1000# 10pcs; inlet water pipe; outlet water pipe

Optional accessories		
Model	Description	
D-1	Automatic dispenser for diamond/ alumina/silica products	
SHM-100	Sample holder for round specimens (diameter on request). Mechanical type, with adjustable samples height.	



POLI-1X

Features

- Manual single platen ø 250mm grinding/polishing machine, fully programmable
 Platen LCD digital control panel
 Cooling system to prevent sample overheating
 Recommended for scientific research institutes,

- metallographic laboratories and universities.



Model	POLI-1X/250
Platen	1
Platen diameter	250mm
Platen speed	50÷1000rpm
Platen rotational direction	Clockwise/Counterclockwise
Torque	5Nm
Noise level	<40dB
Operating temperature	0÷30
Humidity non-condensing	<80°C
Water inlet	ø 6mm
Water outlet	ø 25mm
Motor power	550W
Power supply	230V ±10% - 50/60Hz - 1Ph
Dimensions	410x760x330mm
Weight	40kg

Standard accessories

Magnetic plate Ø250mm; anti-sticky disc Ø250mm; adhesive grinding paper Ø250mm, 320# 10pcs; adhesive grinding paper Ø250mm, 1000# 10pcs; inlet water pipe; outlet water pipe

Optional	Optional accessories		
Model	Description		
D-1	Automatic dispenser for diamond/ alumina/silica products		
SHM-100	Sample holder for round specimens (diameter on request). Mechanical type, with adjustable samples height.		





ELECTRO-P

Features

- > Electrolytic polishing and etching machine for Metallographic Sample Preparation
- > Teflon electrolytic chamber
- > Equipped with voltage control display and digital timer
- > Recommended for scientific research institutes, metallographic laboratories and universities.



Model	ELECTRO-P
Output voltage	0÷60V/0÷25A, adjustable (1V steps)
Chamber capacity	300÷1000ml
Noise level	<60dB
Operating temperature	0÷30°C
Humidity non-condensing	<65%
Power supply	230V ±10% - 50/60Hz - 1Ph
Control box dimensions	450x420x230mm
Electrolytic chamber dimensions	270x230x320mm
Weight	10kg

Standard accessories

Sample mask with hole 3pcs (ø 10, ø 15, ø 20mm)

Optional accessories

20ELEC05

Sample mask with hole selected from ø 10mm to ø 40mm

Appendix

Ingredients and recommended parameters for electrolyting and etching sample preparations

NO.	Composition	Parameter	Suitable Materials
1	30mlHCl+10mlHNO3+50ml glycerin	6-8V	Showing the general composition of heat-resistant alloy
2	5-20% H ₃ PO ₄ aqueous solution	8V	Showing the general composition of heat-resistant alloy
3	40%NH ₄ OH aqueous solution	4-8V	Heat-resistant steel, showing carbide and borate
4	10% aqueous solution of oxalic acid	3-6V	Showing the general composition of heat-resistant alloy
5	3gFeSO ₄ +0.1gFe ₂ (SO ₄) ₃ +100ml distilled water	0.1-0.2A/cm2	Showing the composition of medium-carbon steel, low alloy, structural steel and high-speed steel
6	10g potassium ferricyanide+90ml distilled water	0.2-0.3 A/cm2	Indicating the composition of high-speed steel
7	50/ agreed a solution of autoburic acid	6V	Indicating the composition of iran abramium nieled
	5% aqueous solution of sulphuric acid	0.1-0.5A/cm2	Indicating the composition of iron-chromium-nickel
8	50% aqueous solution of nitric acid	1.5V	Corrosive austenite or ferrite inoxidizable steel crystal
9	700ml ethanol+100ml 2-butoxy+200ml 30%	35-40V	Charles of transal maining allowing mallow host registing allowed poliched
9	perchloric acid	15-20S	Steel, cast iron, aluminium, aluminium alloy, heat-resisting alloy, all polished
10	700ml ethanol+100ml glycerine+200ml 30%	15-50V	Inaverteel high annual steel and aluminium allow poliched
10	perchloric acid	15-60S	lnox steel, high-speed steel and aluminium alloy, polished
44	2001	1.5-1.8V	Aller in the land access well also
11	300ml water+700ml 85% phosphoric acid	5-10 minutes	Alloy, inox steel and copper, polished
10	250ml water - 750ml aulahuria asid	1.5-6V	Inaviated polichad
12	250ml water +750ml sulphuric acid	1-2 minutes	Inox steel, polished



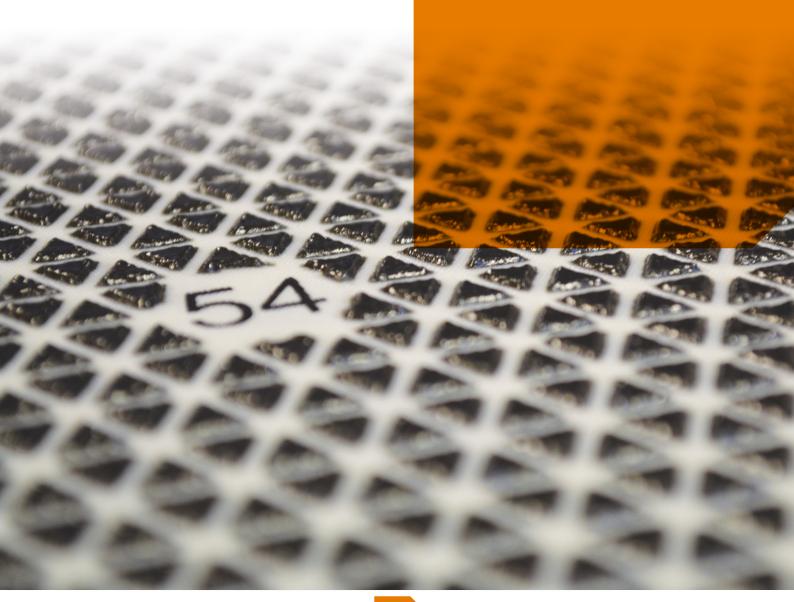
The final steps in metallographic sample prepation are grinding and polishing.

Grinding process is divided in two steps:

- planar grinding for removing surface irregularities
- fine grinding for obtaining a level surface.

Polishing process is necessary for fine grinding surface traces removal in preparation to microscope examination.

Good results depend on the right choice of consumables like abrasive papers, cloths, diamond and alumina suspensions which combined to the right machines parameters allow perfect sample preparation.





SELECTION GUIDE

Grinding dis	cs selection guide	
Model	Description	Recommended use
Abrasive SIC-X	Water-resistant abrasive silicon carbide paper PSA	Soft non-metallic materials (soft rocks, polymers), metallic materials: non-ferrous metallic materials (aluminium, copper, nickel base, coatings), ferrous metallic materials (soft steel, low carbon, cast iron)
Abrasive SIC-Y	Water-resistant abrasive silicon carbide paper non PSA	Soft non-metallic materials (soft rocks, polymers), metallic materials: non-ferrous metallic materials (aluminium, copper, nickel base, coatings), ferrous metallic materials (soft steel, low carbon, cast iron)
Grinding-DX	Metallic or hard resin bonded diamond grinding discs for very hard non-metallic materials	Hard non-metallic materials (ceramics, glass, concrete)
Grinding-H2O	Soft resin bond diamond discs for hard metallic materials	Hard metallic materials (steels, refractory metals), used to reduce process time, for flat and fine grinding application and superior edge sharpness
Grinding-S	Grinding discs to be used with diamond suspensions Poly DS-01 and Mono DS-01	Hard and very hard materials (hardened steel), suitable for flat and fine grinding applications and pre-polishing



Abrasivo Waterproof		brasive papers	PSA (Pressure Sensitive Adhesive)		
Code	Diameter mm	Grit FEPA-P (ANSI/CAM)	Description	Q.ty/ pack	Weight kg
4200080	200	P80 (80)		100	1,1
4200120	200	P120 (120)		100	1,1
4200180	200	P180 (180)		100	1,1
4200240	200	P240 (240)		100	1,1
4200320	200	P320 (280)		100	1,1
4200400	200	P400 (320)	Malara Gallara and Malarahara (DOA)	100	1,1
4200600	200	P600 (380)	Waterproof silicon carbide abrasive (PSA)	100	1,1
4200800	200	P800 (400)		100	1,1
4201000	200	P1000 (500)		100	1,1
4201200	200	P1200 (600)		100	1,1
4202400	200	P2400 (1000)		100	1,1
4204000	200	P4000 (1200)		100	1,1
4250080	250	P80 (80)		100	1,8
4250120	250	P120 (120)		100	1,8
4250180	250	P180 (180)		100	1,8
4250240	250	P240 (240)		100	1,8
4250320	250	P320 (280)		100	1,8
4250400	250	P400 (320)	Maternace cilicon corbido obraciro popor (DCA)	100	1,8
4250600	250	P600 (380)	Waterproof silicon carbide abrasive paper (PSA)	100	1,8
4250800	250	P800 (400)		100	1,8
4251000	250	P1000 (500)		100	1,8
4251200	250	P1200 (600)		100	1,8
4252400	250	P2400 (1000)		100	1,8
4254000	250	P4000 (1200)		100	1,8
	Tana .	T		T	1
4300080	300	P80 (80)		100	2,7
4300120	300	P120 (120)		100	2,7
4300180	300	P180 (180)		100	2,7
4300240	300	P240 (240)		100	2,7
4300320	300	P320 (280)		100	2,7
4300400	300	P400 (320)	Waterproof silicon carbide abrasive paper (PSA)	100	2,7
4300600	300	P600 (380)	Tracerproof silicon carbide abrasive paper (1 ozy)	100	2,7
4300800	300	P800 (400)		100	2,7
4301000	300	P1000 (500)		100	2,7
4301200	300	P1200 (600)		100	2,7
4302400	300	P2400 (1000)		100	2,7
4304000	300	P4000 (1200)		100	2,7





water proof	silicon carbide a	brasive papers			
Code	Diameter mm	Grit FEPA-P (ANSI/CAM)	Description	Q.ty/ pack	Weight kg
6200080	200	P80 (80)		100	1,2
5200120	200	P120 (120)		100	1,2
6200180	200	P180 (180)		100	1,2
6200240	200	P240 (240)		100	1,2
5200320	200	P320 (280)		100	1,2
6200400	200	P400 (320)	Mataraca failisea andida abasaira anna	100	1,2
5200600	200	P600 (380)	Waterproof silicon carbide abrasive paper	100	1,2
5200800	200	P800 (400)		100	1,2
5201000	200	P1000 (500)		100	1,2
6201200	200	P1200 (600)		100	1,2
6202400	200	P2400 (1000)		100	1,2
6204000	200	P4000 (1200)		100	1,2
	'		<u>'</u>		
6250080	250	P80 (80)		100	1,5
6250120	250	P120 (120)		100	1,5
5250180	250	P180 (180)		100	1,5
6250240	250	P240 (240)		100	1,5
5250320	250	P320 (280)		100	1,5
6250400	250	P400 (320)	Waterproof silicon carbide abrasive paper	100	1,5
6250600	250	P600 (380)		100	1,5
6250800	250	P800 (400)		100	1,5
6251000	250	P1000 (500)		100	1,5
6251200	250	P1200 (600)		100	1,5
3252400	250	P2400 (1000)		100	1,5
6254000	250	P4000 (1200)		100	1,5
		1		1.00	.,-
6300080	300	P80 (80)		100	2
6300120	300	P120 (120)		100	2
6300180	300	P180 (180)		100	2
6300240	300	P240 (240)		100	2
3300320	300	P320 (280)		100	2
6300400	300	P400 (320)		100	2
300600	300	P600 (380)	Waterproof silicon carbide abrasive paper	100	2
6300800	300	P800 (400)		100	2
6301000	300	P1000 (500)		100	2
301200	300	P1200 (600)		100	2
302400	300	P2400 (1000)		100	2
6304000	300	P4000 (1200)		100	2



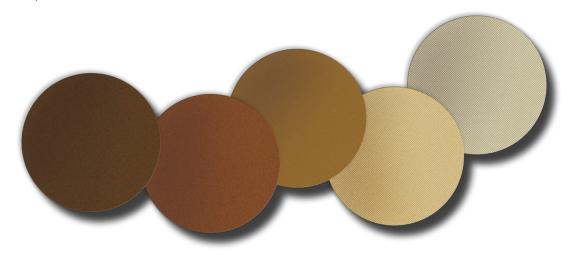
Grinding Diamond g	J DX rinding discs				
Code	Diameter mm	Grit size µ	Description	Q.ty	Weight kg
1520250	200	250		1	0,3
1520125	200	125	Matallia hand diagrand minding diag	1	0,3
1520075	200	75	Metallic bond diamond grinding disc	1	0,3
1520040	200	40		1	0,3
1520030	200	30	Hard resin bond diamond grinding disc	1	0,3
1520020	200	20	Metallic bond diamond grinding disc	1	0,3
1520010	200	10	Hard resin bond diamond grinding disc	1	0,3
1525250	250	250	Metallic bond diamond grinding disc	1	0,4
1525125	250	125		1	0,4
1525075	250	75		1	0,4
1525040	250	40		1	0,4
1525030	250	30	Hard resin bond diamond grinding disc	1	0,4
1525020	250	20	Metallic bond diamond grinding disc	1	0,4
1525010	250	10	Hard resin bond diamond grinding disc	1	0,4
1530250	300	250		1	0,4
1530125	300	125	Matallia hand diamond ariading diag	1	0,4
1530075	300	75	Metallic bond diamond grinding disc	1	0,4
1530040	300	40		1	0,4
1530030	300	30	Hard resin bond diamond grinding disc	1	0,4
1530020	300	20	Metallic bond diamond grinding disc	1	0,4
1530010	300	10	Hard resin bond diamond grinding disc	1	0,4

On request, Grinding-DX are available with metallic back for magnetic applications



Grinding H2O Diamond grinding discs water use										
Code	Diameter mm	Grit size µ	Description	Q.ty	Weight kg					
2020125	200	125		1	0,5					
2020075	200	75	Soft resin bond diamond grinding disc for hard and very hard	1	0,5					
2020054	200	54	materials with hardness >200HV	1	0,5					
2020018	200	18		1	0,5					
2025125	250	125		1	0,5					
2025075	250	75	Soft resin bond diamond grinding disc for hard and very hard	1	0,5					
2025054	250	54	materials with hardness >200HV	1	0,5					
2025018	250	18		1	0,5					
2030125	300	125		1	0,7					
2030075	300	75	Soft resin bond diamond grinding disc for hard and very hard	1	0,7					
2030054	300	54	materials with hardness >200HV	1	0,7					
2030018	300	18		1	0,7					

On request ø 350mm and ø 400mm available





Dressing stone for diamond grinding discs									
Code	Model	Dimension mm	Abrasive	Q.ty	Weight kg				
81GD000	Dressing stone-GD	50x60x100	Al_2O_3	Redressing diamond grinding discs models Grinding-DX and Grinding-H ₂ O	1	0,3			

Magnetic discs for platen										
Code	Model	Diameter mm	Usage	Q.ty	Weight kg					
2300200		200		1	0,3					
2300250	Magnetic-S	250	Stick on platen for metallic discs use	1	0,3					
2300300		300		1	0,3					

Metallic discs for magnetic supports									
Code	Model	Diameter mm	Usage	Q.ty	Weight kg				
2400200	200	200		1	0,3				
2400250	Metallic-D	250	Supports for adhesive pads for magnetic discs	1	0,4				
2400300		300		1	0,5				

Grinding discs for diamond suspensions									
Code	Model	Diameter mm	Suitable diamond suspension μ	Description	Q.ty	Weight kg			
1450200	Grinding-S	200	15, 9, 6		1	0,2			
1450250		250	15, 9, 6	Grinding disc for hard steels and cast iron with hardenss >130HV	1	0,3			
1450300		300	15, 9, 6		1	0,3			

Zirconium oxide abrasive papers PSA										
Code	Model	Diameter mm	Srit FEPA-P (ANSI/CAM) Description		Q.ty/ pack	Weight kg				
60ZO250	- Abrasive-ZO	250	P80 (80)	Zirconium oxide abrasive paper adhesive,	25	1,8				
60ZO300	Abrasive-20	300	P80 (80)	pressure sensitive, for material high removal rate	25	2,3				





Lubricant water	Lubricant-L		
Code	Q.ty I	Description	Weight kg
2900100	1	Water salable labels and for longing	1,2
2900500	5	Water soluble lubricant for lapping. Can be used with Grinding-H2O to increase grinding power.	5,3
2901000	10	Can be mixed with alumina powder.	10,4





SELECTION GUIDE

Polishing cloths selection guide							
Woven cloths:	With laminated back to avoid abrasive penetration. Made of different fibres with hard surface polishing properties, assure flat pre-polishing without edge wear.						
Non-woven cloths:	Made of plastic or latex impregnated fibres and sometimes chemical treated. Used for very hard materials (quartz, semi-conductor, glass) for high precision surface finishing.						
Flocked cloths: Classified according to flock lenght and density grade. Used for super-polished finishing. Flocked cloths must b used for the shortest time possible in order to avoid inclusions.							

Model	Туре	Description	Main application	Recommended products	Suitable suspensions µ	Adhesive	Metallic back-side
CER		Laminated, long durability	High and plan stock removal, excellent flatness	Diamond products	45, 30, 15, 9, 6	CER-X	CER-Z
ALL		Non-woven with internal film barrier	Plan polishing for medium, hard and very hard materials	Diamond products	15, 9, 6, 3	ALL-X	ALL-Z
PEC		Woven satin with internal barrier film	Higher material removal for all materials	Diamond products	15, 9, 6, 3	PEC-X	PEC-Z
MPE		Woven silk with thin adhesive film and PVC foil and internal barrier	Excellent flatness for all materials	Diamond products	9, 6, 3, 1	MPE-X	MPE-Z
BAG		Woven silk with internal barrier and thin adhesive film	Excellent flatness and semi-finishing for all materials	Diamond products	9, 6, 3, 1	BAG-X	BAG-Z
MAZ		Pure woven wool	Semi-finishing or finishing for medium and soft materials	Diamond products	6, 3	MAZ-X	MAZ-Z
LEA		Soft flocked with internal barrier film	Flatness, semi-finishing and finishing for all materials	Diamond products	9, 6, 3, 1	LEA-X	LEA-Z
ROS		Soft flocked	Flatness, semi-finishing and finishing for all materials	Diamond products	6, 3, 1	ROS-X	ROS-Z
RIZ		Extra-soft flocked	Semi-finishing and finishing for all materials	Diamond products, fine alumina	3, 1, 0,25	RIZ-X	RIZ-Z
CAB		Buffed polyurethane	Super-finishing for all materials	Colloidal silica, extra fine alumina	1 to 0,04	CAB-X	CAB-Z



Code	Model	Diameter	colour	Description	Q.ty/	Weight
Code		mm	Colour	Description	pack	kg
4620020	CER-X	200		Laminated polishing cloth pressure sensitive adhesive	10	0,3
4620001	ALL-X	200		Non-woven polishing cloth pressure sensitive adhesive	5	0,3
4620002	PEC-X	200		Woven satin polishing cloth pressure sensitive adhesive	5	0,3
4620003	MPE-X	200		Woven silk polishing cloth with PVC intermediate layer pressure sensitive adhesive	5	0,3
1620004	BAG-X	200		Woven silk polishing cloth pressure sensitive adhesive	5	0,3
1620005	MAZ-X	200		100% pure woven wool polishing cloth pressure sensitive adhesive	5	0,3
1620006	LEA-X	200		Soft flocked polishing cloth pressure sensitive adhesive	5	0,3
620007	ROS-X	200		Soft flocked polishing cloth pressure sensitive adhesive	5	0,3
1620008	RIZ-X	200		Extra-soft polishing cloth pressure sensitive adhesive	5	0,3
1620009	CAB-X	200		Buffed polyurethane polishing cloth pressure sensitive adhesive	5	0,3
625020	CER-X	250		Laminated polishing cloth pressure sensitive adhesive	10	0,3
625001	ALL-X	250		Non-woven polishing cloth pressure sensitive adhesive	5	0,3
625002	PEC-X	250		Woven satin polishing cloth pressure sensitive adhesive	5	0,3
625003	MPE-X	250		Woven silk polishing cloth with PVC intermediate layer pressure sensitive adhesive	5	0,3
625004	BAG-X	250		Woven silk polishing cloth pressure sensitive adhesive	5	0,3
625005	MAZ-X	250		100% pure woven wool polishing cloth pressure sensitive adhesive	5	0,3
625006	LEA-X	250		Soft flocked polishing cloth pressure sensitive adhesive	5	0,3
625007	ROS-X	250		Soft flocked polishing cloth pressure sensitive adhesive	5	0,3
625008	RIZ-X	250		Extra-soft polishing cloth pressure sensitive adhesive	5	0,3
625009	CAB-X	250		Buffed polyurethane polishing cloth pressure sensitive adhesive	5	0,3
630020	CER-X	300		Laminated polishing cloth pressure sensitive adhesive	10	0,4
630001	ALL-X	300		Non-woven polishing cloth pressure sensitive adhesive	5	0,4
630002	PEC-X	300		Woven satin polishing cloth pressure sensitive adhesive	5	0,4
1630003	MPE-X	300		Woven silk polishing cloth with PVC intermediate layer pressure sensitive adhesive	5	0,4
630004	BAG-X	300		Woven silk polishing cloth pressure sensitive adhesive	5	0,4
630005	MAZ-X	300		100% pure woven wool polishing cloth pressure sensitive adhesive	5	0,4
630006	LEA-X	300		Soft flocked polishing cloth pressure sensitive adhesive	5	0,4
630007	ROS-X	300		Soft flocked polishing cloth pressure sensitive adhesive	5	0,4
630008	RIZ-X	300		Extra-soft polishing cloth pressure sensitive adhesive	5	0,4
1630009	CAB-X	300		Buffed polyurethane polishing cloth pressure sensitive adhesive	5	0,4



Code	Model	Diameter mm	Colour	Description	Q.ty/ pack	Weigh
4620019	CER-Z	200		Laminated polishing cloth magnetic back-side	10	kg
4620010	ALL-Z	200		Non-woven polishing cloth magnetic back-side	5	0,3
4620011	PEC-Z	200		Woven satin polishing cloth magnetic back-side	5	0,3
4620012	MPE-Z	200		Woven silk polishing cloth with PVC intermediate layer magnetic back-side	5	0.3
4620013	BAG-Z	200		Woven silk polishing cloth magnetic back-side	5	0.3
4620014	MAZ-Z	200		100% pure woven wool polishing cloth magnetic back-side	5	0.3
4620015	LEA-Z	200		Soft flocked polishing cloth magnetic back-side	5	0.3
4620016	ROS-Z	200		Soft flocked polishing cloth magnetic back-side	5	0,3
4620017	RIZ-Z	200		Extra-soft polishing cloth magnetic back-side	5	0,3
4620018	CAB-Z	200		Buffed polyurethane polishing cloth magnetic back-side	5	0,3
4625019	CER-Z	250		Laminated polishing cloth magnetic back-side	10	0,3
4625010	ALL-Z	250		Non-woven polishing cloth magnetic back-side	5	0,3
4625011	PEC-Z	250		Woven satin polishing cloth magnetic back-side	5	0,3
4625012	MPE-Z	250		Woven silk polishing cloth with PVC intermediate layer magnetic back-side	5	0,3
4625013	BAG-Z	250		Woven silk polishing cloth magnetic back-side	5	0,3
4625014	MAZ-Z	250		100% pure woven wool polishing cloth magnetic back-side	5	0,3
4625015	LEA-Z	250		Soft flocked polishing cloth magnetic back-side	5	0,3
4625016	ROS-Z	250		Soft flocked polishing cloth magnetic back-side	5	0,3
4625017	RIZ-Z	250		Extra-soft polishing cloth magnetic back-side	5	0,3
4625018	CAB-Z	250		Buffed polyurethane polishing cloth magnetic back-side	5	0,3
4630019	CER-Z	300		Laminated polishing cloth magnetic back-side	10	0,4
4630010	ALL-Z	300		Non-woven polishing cloth magnetic back-side	5	0,4
4630011	PEC-Z	300		Woven satin polishing cloth magnetic back-side	5	0,4
4630012	MPE-Z	300		Woven silk polishing cloth with PVC intermediate layer magnetic back-side	5	0,4
4630013	BAG-Z	300		Woven silk polishing cloth magnetic back-side	5	0,4
4630014	MAZ-Z	300		100% pure woven wool polishing cloth magnetic back-side	5	0,4
4630015	LEA-Z	300		Soft flocked polishing cloth magnetic back-side	5	0,4
4630016	ROS-Z	300		Soft flocked polishing cloth magnetic back-side	5	0,4
4630017	RIZ-Z	300		Extra-soft polishing cloth magnetic back-side	5	0,4
4630018	CAB-Z	300		Buffed polyurethane polishing cloth magnetic back-side	5	0,4



SELECTION GUIDE

Diamond polishing products selection guide							
Model	Туре	Description	Recommended lubricant				
Mono DS-01	Suspension	Water base coloured monocrystalline permanent diamond suspension, high concentration for polishing. Recommended for all materials. To be used with or without lubricant.	Lubricant-WB				
Poly DS-01	Suspension	Water base polycrystalline permanent diamond suspension, high concentration for polishing. Recommended for hard materials.To be used with or without lubricant.	Lubricant-WB				
Mono DS-21	Suspension	2in1 Water base coloured monocrystalline permanent diamond suspension, special formula with more lubricant, more smooth and high concentration for more time grip on cloths. Recommended for all materials. To be used without lubricant.	ı				
Poly DS-21	Suspension	2in1 Water base polycrystalline permanent diamond suspension, special formula with more lubricant, more smooth and high concentration for more time grip on cloths. Recommended for all materials. To be used without lubricant.	ı				
Mono DS-HC	Suspension	Coloured monocrystalline permanent diamond suspension, creamy formulation, without water, alcohol and oil, very high concentration. Recommended for all materials.	Lubricant-AB/Lubricant-WB/ Lubricant-WAB				
Poly DS-HC	Suspension	Polycrystalline permanent diamond suspension, creamy formulation, without water, alcohol and oil, very high concentration. Recommended for all materials.	Lubricant-AB/Lubricant-WB/ Lubricant-WAB				
Mono DS-AB	Suspension	Alcohol base coloured monocrystalline diamond suspension, with high concentration and very high polishing power. Recommended for all materials.	Lubricant-AB				
Poly DS-AB	Suspension	Alcohol base polycrystalline diamond suspension, with high concentration and very high polishing power. Recommended for all hard materials.	Lubricant-AB				
Mono DP	Paste	Water base monocrystalline diamond paste. Recommended for polishing soft materials.	Lubricant-WB				
Poly DP	Paste	Water base polycrystalline diamond paste. Recommended for polishing hard materials.	Lubricant-WB				
Mono SD	Spray	Water base monocrystalline diamond spray. Recommended for polishing all materials.	Lubricant-WB				
Poly SD	Spray	Water base polycrystalline diamond spray. Recommended for polishing hard materials.	Lubricant-WB				
	ı		1				
Alcohol base		Alcohol base products are suitable for polishing materials very sensitive to corrosion. Obs	servation of inclusions.				
Water base products are suitable for other application, monocrystalline and polycristalline types are used as foll - Monocrystalline products are used for normal polishing operations and are suitable for all types of materials. - Polycrystalline products are used for quick and high quality polishing of materials like ceramics, cast iron, cart treated steels. These products minimize deep scratches while keeps high removal materials rate.							



DIAMOND SUSPENSIONS

Mono DS-01 Water base monocrystalline diamond suspensions											
						Code	Grit size µ	Colour	Description	Q.ty I	Weight kg
						8002505	0,25		Suitable for all materials, easy to clean and biodegradable	0,5	0,8
8010005	1		0,5	0,8							
8030005	3		0,5	0,8							
8060005	6		0,5	0,8							
8090005	9		0,5	0,8							
8150005	15		0,5	0,8							
			·	·							
8002510	0,25		Suitable for all materials, easy to clean and biodegradable	1	1,3						
8010010	1			1	1,3						
8030010	3			1	1,3						
8060010	6			1	1,3						
8090010	9			1	1,3						
8150010	15			1	1,3						
		•	·	·							
8002525	0,25		Suitable for all materials, easy to clean and biodegradable 2 2 2 2 2 2	2,5	2,6						
8010025	1			2,5	2,6						
8030025	3			2,5	2,6						
8060025	6			2,5	2,6						
8090025	9			2,5	2,6						
8150025	15			2,5	2,6						
		·	·	·							
8002550	0,25		Suitable for all materials, easy to clean and biodegradable 5 5 5 5 5 5 5 5	5	5,4						
8010050	1			5	5,4						
8030050	3			5	5,4						
8060050	6			5	5,4						
8090050	9			5	5,4						
8150050	15			5	5,4						





Code	Grit	Colour	Description	Q.ty I	Weigh
	size µ	Colour	Description		kg
9002505	0,25			0,5	0,8
9010005	1			0,5	0,8
9030005	3		Suitable for hard materials, easy to clean and biodegradable	0,5	0,8
9060005	6			0,5	0,8
9090005	9			0,5	0,8
9150005	15			0,5	0,8
9002510	0,25			1	1,3
9010010	1			1	1,3
9030010	3		Suitable for hard materials, easy to clean and biodegradable	1	1,3
9060010	6			1	1,3
9090010	9			1	1,3
9150010	15			1	1,3
9002525	0,25			2,5	2,6
9010025	1			2,5	2,6
9030025	3		Suitable for hard materials, easy to clean and biodegradable	2,5	2,6
9060025	6			2,5	2,6
9090025	9			2,5	2,6
9150025	15			2,5	2,6
9002550	0,25			5	5,4
9010050	1			5	5,4
9030050	3		Suitable for hard materials, easy to clean and biodegradable	5	5,4
9060050	6			5	5,4
9090050	9			5	5,4
9150050	15			5	5,4



Mono DS 2in1 monoc	5-21 rystalline dia	amond suspens	ions		
Code	Grit size µ	Colour	Description	Q.ty I	Weight kg
6002505	0,25			0,5	0,8
6010005	1			0,5	0,8
6030005	3		Suitable for all materials, easy to clean and biodegradable more lubricant	0,5	0,8
6060005	6		and more smooth	0,5	0,8
6090005	9			0,5	0,8
6150005	15			0,5	0,8
	0.05			4	140
6002510	0,25		Suitable for all materials, easy to clean and biodegradable more lubricant and more smooth	1	1,3
6010010	1			1	1,3
6030010	3			1	1,3
6060010	6			1	1,3
6090010	9			1	1,3
6150010	15			1	1,3
6002525	0,25			2,5	2,6
6010025	1			2,5	2,6
6030025	3		Suitable for all materials, easy to clean and biodegradable more lubricant	2,5	2,6
6060025	6		and more smooth	2,5	2,6
6090025	9			2,5	2,6
6150025	15			2,5	2,6
6002550	0,25			5	5,4
6010050	1			5	5,4
6030050	3		Suitable for all materials, easy to clean and biodegradable more lubricant	5	5,4
6060050	6		and more smooth	5	5,4
6090050	9			5	5,4
6150050	15			5	5,4



Poly DS- 2in1 polycr		mond suspension	ons		
Code	Grit size µ	Colour	Description	Q.ty I	Weight kg
7002505	0,25			0,5	0,8
7010005	1			0,5	0,8
7030005	3		Suitable for hard materials, easy to clean and biodegradable more lubricant and more	0,5	0,8
7060005	6		smooth	0,5	0,8
7090005	9			0,5	0,8
7150005	15	•		0,5	0,8
7002510	0,25	•		1	1,3
7010010	1		Suitable for hard materials, easy to clean and biodegradable more lubricant and more smooth	1	1,3
7030010	3	•		1	1,3
7060010	6			1	1,3
7090010	9	•		1	1,3
7150010	15			1	1,3
7002525	0,25	•		2,5	2,6
7010025	1			2,5	2,6
7030025	3		Suitable for hard materials, easy to clean and biodegradable more lubricant and more	2,5	2,6
7060025	6		smooth	2,5	2,6
7090025	9			2,5	2,6
7150025	15			2,5	2,6
7002550	0,25	•		5	5,4
7010050	1			5	5,4
7030050	3	•	Suitable for hard materials, easy to clean and biodegradable more lubricant and more	5	5,4
7060050	6		smooth	5	5,4
7090050	9			5	5,4
7150050	15			5	5,4



Mono DS-HC Monocrystalline diamond suspensions very high concentration, water, oil and alcohol free										
Code	Grit size µ	Colour	Description	Q.ty I	Weight kg					
9100105	1			0,5	0,8					
9100305	3			0,5	0,8					
9100605	6		Suitable for all materials, easy to clean, biodegradable and not hazardous	0,5	0,8					
9100905	9			0,5	0,8					

Poly DS-HC Polycrystalline diamond suspensions very high concentration, water, oil and alcohol free										
Code	Grit size μ	Colour	Description	Q.ty I	Weight kg					
9200105	1			0,5	0,8					
9200305	3	•	Cuitable for hard materials, apply to along his degradable and get harded up	0,5	0,8					
9200605	6	•	Suitable for hard materials, easy to clean, biodegradable and not hazardous	0,5	0,8					
9200905	9	•		0,5	0,8					

Mono DS		talline diamond	suspensions		
Code	Grit size µ	Colour	Description	Q.ty I	Weight kg
4002505	0,25			0,5	0,8
4010005	1			0,5	0,8
4030005	3		Suitable for all materials and water sensitive materials, very high polishing power,	0,5	0,8
4060005	6	•	easy to clean and biodegradable	0,5	0,8
4090005	9			0,5	0,8
4150005	15			0,5	0,8
					•
4002510	0,25			1	1,3
4010010	1			1	1,3
4030010	3		Suitable for all materials and water sensitive materials, very high polishing power, easy	1	1,3
4060010	6	0	to clean and biodegradable	1	1,3
4090010	9			1	1,3
4150010	15	•		1	1,3



Poly DS- Alcohol bas		alline diamond s	uspensions		
Code	Grit size µ	Colour	Description	Q.ty I	Weight kg
5002505	0,25			0,5	0,8
5010005	1		Suitable for all hard materials and water sensitive materials, very high polishing power, easy to clean and biodegradable 0,	0,5	0,8
5030005	3	•		0,5	0,8
5060005	6			0,5	0,8
5090005	9	•		0,5	0,8
5150005	15			0,5	0,8
	1	1		_	
5002510	0,25			1	1,3
5010010	1			1	1,3
5030010	3	•	Suitable for all hard materials and water sensitive materials, very high polishing power,	1	1,3
5060010	6		easy to clean and biodegradable	1	1,3
5090010	9	•		1	1,3
5150010	15			1	1,3

DIAMOND PASTES

Mono DP Monocrystalline diamond pastes								
Code	Grit size µ	Colour	Description	Q.ty g Weigh				
Mono DP-0.5	0,5			5 0,2				
Mono DP-1	1			5 0,2				
Mono DP-1.5	1,5			5 0,2				
Mono DP-2	2		5	5 0,2				
Mono DP-2.5	2,5			5 0,2				
Mono DP-3	3		O Noble Second motorists	5 0,2				
Mono DP-3.5	3,5		Suitable for soft materials	5 0,2				
Mono DP-5	5			5 0,2				
Mono DP-6	6			5 0,2				
Mono DP-7	7			5 0,2				
Mono DP-9	9			5 0,2				
Mono DP-10	10			5 0,2				





Poly DP Polycrystalline diamond pastes								
Code	Grit size µ	Colour	Description	Q.ty g We	eight			
Poly DP-0.5	0,5			5 0,2	>			
Poly DP-1	1			5 0,2	2			
Poly DP-1.5	1,5			5 0,2	2			
Poly DP-2	2			5 0,2	2			
Poly DP-2.5	2,5			5 0,2	2			
Poly DP-3	3		Cuitable for hand materials	5 0,2	2			
Poly DP-3.5	3,5		Suitable for hard materials	5 0,2	2			
Poly DP-5	5			5 0,2	2			
Poly DP-6	6			5 0,2	2			
Poly DP-7	7			5 0,2	?			
Poly DP-9	9			5 0,2	2			
Poly DP-10	10			5 0,2)			

DIAMOND SPRAYS

Mono SD Monocrystalline diamond sprays								
Code	Grit size µ	Colour	Description	Q.ty ml	Weight kg			
Mono SD-0.5	0,5			350	0,4			
Mono SD-1	1			350	0,4			
Mono SD-1.5	1,5			350	0,4			
Mono SD-2.5	2,5			350	0,4			
Mono SD-3.5	3,5		Cuitable for all materials	350	0,4			
Mono SD-5	5		Suitable for all materials	350	0,4			
Mono SD-6	6			350	0,4			
Mono SD-7	7			350	0,4			
Mono SD-9	9			350	0,4			
Mono SD-10	10			350	0,4			

Code	Grit size µ	Colour	Description		Q.ty ml	Weight kg
Poly SD-0.25	0,5				200	0,3
Poly SD-0.5	0,5				200	0,3
Poly SD-1	1				200	0,3
Poly SD-3	3		Suitable for hard materials	ech p A b	200	0,3
Poly SD-6	6			S DEMONSTRATE STREET TO ST	non-contras diferentia pa	0,3
Poly SD-9	9			sign of the patients were excellent prices; the control prices in	200	0,3
Poly SD-15	15			express generalization or with spin in great the control of the co	The first entered to compare the ground of the compare to the comp	0,3



LUBRICANTS

Lubricant-WB Water base lubricants									
Code	Colour	Application	Q.ty I	Weight kg					
7150010			1	1,2					
7150025		Water has historiant	2,5	2,8					
7150050		Water base lubricant	5	5,3					
7150100			10	10,4					

	Lubricant-WAB Water and alcohol base lubricants									
Code	Colour	Application	Q.ty I	Weight kg						
72500101			1	1,2						
72500251		Water and alcohol base lubricant	2,5	2,8						
72500501		water and alcohol base lubricant	5	5,3						
72501001			10	10,4						

	Lubricant-AB Alcohol base lubricants									
Code	Colour	Q.ty I	Weight kg							
7350010			1	1,2						
7350025		Alcohol base lubricant	2,5	2,8						
7350050		Alcohol base lubilicant	5	5,3						
7350100			10	10,4						





COLLOIDAL SILICA & ALUMINA PRODUCTS

For final high quality mirror sample surfaces.

CS-SW Colloidal silica	CS-SW Colloidal silica suspensions white								
Code	Colour	Description	Q.ty I	Weight kg					
3300100	0		1	1,3					
3300250	0	Super-finishing with anticrystallization agent	2,5	3,3					
3300500	0		5	6,5					

CS-SP Colloidal silica	CS-SP Colloidal silica suspensions pink								
Code	Colour	Description	Q.ty I	Weight kg					
3400100			1	1,3					
3400250		Super-finishing with anticrystallization agent and more aggressive	2,5	3,3					
3400500			5	6,5					

CS-SB Colloidal silica	suspensions blu	e		
Code	Colour	Description	Q.ty I	Weight kg
3500100		Control Stricking for formers and sink with anti-strategy and ALO	1	1,3
3500250		Super-finishing for ferrous materials with anticrystallization agent and Al ₂ O ₃	5	6,5





	Alumina-C Alumina creams									
Code	Grit size µ	Quality	Colour	Description	Q.ty I	Weight kg				
3600410	0,04	Gamma			1	1,3				
3603010	0,3	Alpha		Super-finishing neutral pH	1	1,3				
3610010	1	Alpha			1	1,3				

	Alumina-SS Alumina smooth suspensions									
Code	Grit size µ	Quality	Colour	Description	Q.ty I	Weight kg				
3700410	0,04	Gamma			1	1,3				
3703010	0,3	Alpha		Super-finishing, slower dry and high concentration, with lubricant	1	1,3				
3710010	1	Alpha			1	1,3				

Alumina-					
Code	Grit size µ	Quality	Description	Q.ty I	Weight kg
3800410	0,04	Gamma	Super-finishing, water base suspension	1	1,1
3803010	0,3	Alpha	Super-finishing, water base suspension	1	1,1
3810010	1	Alpha	Finishing, water base suspension	1	1,1

Alumina Alumina po					
Code	Grit size µ	Quality	Description	Q.ty kg	Weight kg
3900410	0,04	Gamma	Cupas fisishing	1	1,2
3903010	0,3	Alpha	Super-finishing	1	1,2
3910010	1	Alpha	High-finishing	1	1,2
4010010	1	Standard	Finishing	1	1,2
4030010	3	Standard	Comi finishing	1	1,2
4050010	5	Standard	Semi-finishing	1	1,2
4090010	9	Standard		1	1,2
4150010	15	Standard	Lapping	1	1,2
4300010	30	Standard		1	1,2



ADDITIONAL INSTRUMENTS



Digital ultrasonic cleaners

Model	Туре	Capacity	Heating	Frequency	Ultrasonic power	Heating power	Power supply	Tank dimensions	Overall dimensions	Weight	Recommended for:
SONIC-D06	Digital ultrasonic cleaner	0,61	No	40 kHz	50 W	-	230V - 50Hz	150x85x65 mm	175x110x155 mm	1,5kg	
SONIC-D06H	Digital ultrasonic cleaner	0,6 I	Yes	40 kHz	50 W	30 W	230V - 50Hz	150x85x65 mm	175x110x155 mm	1,5kg	
SONIC-D16H	Digital ultrasonic cleaner	1,3	Yes	40 kHz	70 W	30 W	230V - 50Hz	150x135x100 mm	180x165x205 mm	2,5kg	For cleaning samples surfaces
SONIC-D32H	Digital ultrasonic cleaner	3,21	Yes	40 kHz	120 W	100 W	230V - 50Hz	240x135x100 mm	265x165x235 mm	4kg	after the cutting and mounting processes, before the
SONIC-D55H	Digital ultrasonic cleaner	4,5	Yes	40 kHz	180 W	200 W	230V - 50Hz	300x150x100 mm	330x180x260 mm	5,5kg	grinding/polishing processes
SONIC-D70H	Digital ultrasonic cleaner	71	Yes	40 kHz	240 W	500 W	230V - 50Hz	300x240x100 mm	330x270x260 mm	8,5kg	
SONIC-D150H	Digital ultrasonic cleaner	15	Yes	40 kHz	360 W	500 W	230V - 50Hz	330x300x150 mm	360x330x330 mm	11kg	





Model	Туре	Stroke/min	Power	Power supply	Standard accessories	Weight	Recommended for:
EG 710	Engraving pen	7100	0,1 kW	230V - 50Hz	2 set of tips	0,3kg	Samples marking

Model	Туре	Heating power	Power supply	Recommended for:
DD-1	Drying device	2000W, 900W, ordinary temperature	230V - 50Hz	Fast sample drying

Model	Description	Recommended for:
SHM-100	Sample holder for round specimens (diameter on request). Mechanical type, with adjustable samples height	Easy handling of specimens

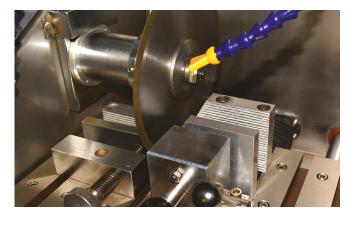
Model	Description	Recommended for:
D-1	Automatic dispenser for diamond/alumina/silica products	Automatic distribution of products during grinding/polishing processes





Sample material	Standard steel, solution 1			
Cutting process	Cutting disc recommended: all mod	dels type-A in according with mater	rial hardness	
Mounting process	Mounting resin recommended: all r	nounting resins		
Grinding/polishing process				
Step	Grinding disc recommended / Grit	Polishing cloth recommended	Diamond product recommended / Grit	Lubricant recommended
1	Model abrasive SIC-X/ Abrasive SIC-Y / P180	1	I	Water
2	Model abrasive SIC-X/ Abrasive SIC-Y / P320	1	I	Water
3	Model abrasive SIC-X/ Abrasive SIC-Y / P600	1	I	Water
4	Model abrasive SIC-X/ Abrasive SIC-Y / P1200	I	I	Water
5	1	Model BAG-X/BAG-Y	Model DS-01 / 6μ	Model lubricant-WB
6	1	Model MAZ-X/MAZ-Y	Model DS-01 / 3µ	Model lubricant-WB
7	1	Model ROS-X/ROS-Y	Model DS-01 / 1µ	Model lubricant-WB

Sample material	Standard steel, solution 2				
Cutting process	Cutting disc recommended: all mod	dels type-A in according with mater	rial hardness		
Mounting process	Mounting resin recommended: all r	nounting resins			
Grinding/polishing process					
Step	Grinding disc recommended / Grit	Polishing cloth recommended	Diamond product recommended / Grit	Lubricant recommended	
1	Model Grinding-H2O / 54µ	1	I	Water	
2	Model Grinding-H2O / 18µ	1	I	Water	
3	Model abrasive SIC-X/ Abrasive SIC-Y / P1200	1	I	Water	
4	1	Model BAG-X/BAG-Y	Model mono DS-01 / 6µ	Model lubricant-WB	
5	1	Model MAZ-X/MAZ-Y	Model mono DS-01 / 3µ	Model lubricant-WB	
6	1	Model ROS-X/ROS-Y	Model mono DS-01 / 1μ	Model lubricant-WB	







Sample material	Standard steel (water sensitive), solution 1			
Cutting process	Cutting disc recommended: all mod	dels type-A in according with mater	rial hardness	
Mounting process	Mounting resin recommended: all r	nounting resins		
Grinding/polishing process				
Step	Grinding disc recommended / Grit	Polishing cloth recommended	Diamond product recommended / Grit	Lubricant recommended
1	Model abrasive SIC-X/ Abrasive SIC-Y / P180	1	I	Water
2	Model abrasive SIC-X/ Abrasive SIC-Y / P320	1	I	Water
3	Model abrasive SIC-X/ Abrasive SIC-Y / P600	1	I	Water
4	Model abrasive SIC-X/ Abrasive SIC-Y / P1200	1	1	Water
5	1	Model BAG-X/BAG-Y	Model mono DS-01 / 6µ	Model lubricant-AB
6	1	Model MAZ-X/MAZ-Y	Model mono DS-01 / 3µ	Model lubricant-AB
7	1	Model ROS-X/ROS-Y	Model mono DS-01 / 1µ	Model lubricant-AB

Sample material	Standard steel (water sensitive), solution 2				
Cutting process	Cutting disc recommended: all mod	dels type-A in according with mater	rial hardness		
Mounting process	Mounting resin recommended: all r	mounting resins			
Grinding/polishing process					
Step	Grinding disc recommended / Grit	Polishing cloth recommended	Diamond product recommended / Grit	Lubricant recommended	
1	Model Grinding-H2O / 54µ	1	1	Water	
2	Model Grinding-H2O / 18µ	1	1	Water	
3	Model abrasive SIC-X/ Abrasive SIC-Y / P1200	I	I	Water	
4	1	Model BAG-X/BAG-Y	Model mono DS-01 / 6µ	Model lubricant-AB	
5	1	Model MAZ-X/MAZ-Y	Model mono DS-01 / 3µ	Model lubricant-AB	
6	1	Model ROS-X/ROS-Y	Model mono DS-01 / 1µ	Model lubricant-AB	



Sample material	Stainless steel, solution 1			
Cutting process	Cutting disc recommended: all mod	dels type-A or Type-B in according	with material hardness	
Mounting process	Mounting resin recommended: all r	nounting resins		
Grinding/polishing process				
Step	Grinding disc recommended / Grit	Polishing cloth recommended	Diamond product recommended / Grit	Lubricant recommended
1	Model abrasive SIC-X/ Abrasive SIC-Y / P180	1	I	Water
2	Model abrasive SIC-X/ Abrasive SIC-Y / P320	1	I	Water
3	Model abrasive SIC-X/ Abrasive SIC-Y / P600	1	I	Water
4	Model abrasive SIC-X/ Abrasive SIC-Y / P1200	1	1	Water
5	1	Model BAG-X/BAG-Y	Model mono DS-01 / 6μ	Model lubricant-AB
6	1	Model MAZ-X/MAZ-Y	Model mono DS-01 / 3µ	Model lubricant-AB
7	1	Model ROS-X/ROS-Y	Model mono DS-01 / 1μ	Model lubricant-AB
8	1	Model CAB-X/CAB-Y	Model CS-SW	(Water) Optional step, is possible use water 18 seconds before end, to clean polishing cloth

NOTE: to avoid micro-black points use limited quantity of diamond suspension

Sample material	Stainless steel, solution 2			
Cutting process	Cutting disc recommended: all mo	dels type-A or Type-B in according	g with material hardness	
Mounting process	Mounting resin recommended: all	mounting resins		
Grinding/polishing process				
Step	Grinding disc recommended / Grit	Polishing cloth recommended	Diamond product recommended / Grit	Lubricant recommended
1	Model Grinding-H2O / 54µ	1	1	Water
2	Model Grinding-H2O / 18µ	1	1	Water
3	Model abrasive SIC-X/ Abrasive SIC-Y / P1200	1	1	Water
4	1	Model BAG-X/BAG-Y	Model mono DS-01 / 6μ	Model lubricant-AB
5	1	Model MAZ-X/MAZ-Y	Model mono DS-01 / 3µ	Model lubricant-AB
6	1	Model ROS-X/ROS-Y	Model mono DS-01 / 1µ	Model lubricant-AB
7	1	Model ROS-X/ROS-Y	Model CS-SW	(Water) Optional step, is possible use water 18 seconds before end, to clean polishing cloth

NOTE: to avoid micro-black points use limited quantity of diamond suspension



Sample material	Aluminium alloys			
Cutting process	Cutting disc recommended: Model	type-C		
Mounting process	Mounting resin recommended: all r	mounting resins		
Grinding/polishing process				
Step	Grinding disc recommended / Grit	Polishing cloth recommended	Diamond product recommended / Grit	Lubricant recommended
1	Model abrasive SIC-X/ Abrasive SIC-Y / P180	1	1	Water
2	Model abrasive SIC-X/ Abrasive SIC-Y / P320	1	1	Water
3	Model abrasive SIC-X/ Abrasive SIC-Y / P600	1	1	Water
4	Model abrasive SIC-X/ Abrasive SIC-Y / P1200	1	1	Water
5	1	Model BAG-X/BAG-Y	Model mono DS-01 / 6μ	Model lubricant-WB
6	1	Model MAZ-X/MAZ-Y	Model mono DS-01 / 3µ	Model lubricant-WB
7	1	Model ROS-X/ROS-Y	Model mono DS-01 / 1µ	Model lubricant-WB
8	I	Model CAB-X/CAB-Y	Model CS-SW or model CS-SP	(Water) Optional step, is possible use water 18 seconds before end, to clean polishing cloth

Sample material	Treated steel			
Cutting process	Cutting disc recommended: all mod	dels type-B in according with mate	erial hardness	
Mounting process	Mounting resin recommended: mo	del HotMresin-EB		
Grinding/polishing process				
Step	Grinding disc recommended / Grit	Polishing cloth recommended	Diamond product recommended / Grit	Lubricant recommended
1	Model Grinding-H2O / 54µ	1	1	Water
2	Model Grinding-H2O / 18µ	1	1	Water
3	1	Model BAG-X/BAG-Y	Model mono DS-01 / 9µ	Model lubricant-WB
4	1	Model BAG-X/BAG-Y	Model mono DS-01 / 3µ	Model lubricant-WB
5	1	Model ROS-X/ROS-Y	Mode IMono DS-01 / 1μ	Model lubricant-WB

Sample material	Very hard treated steel			
Cutting process	Cutting disc recommended: model	type-B3		
Mounting process	Mounting resin recommended: mod	del HotMresin-EB		
Grinding/polishing process				
Step	Grinding disc recommended / Grit	Polishing cloth recommended	Diamond product recommended / Grit	Lubricant recommended
1	Model Grinding-H2O / 54µ	1	1	Water
2	Model Grinding-H2O / 18µ	1	1	Water
3	1	Model BAG-X/BAG-Y	Model Poly DS-01 / 9μ	Model lubricant-WB
4	1	Model BAG-X/BAG-Y	Model Poly DS-01 / 3µ	Model lubricant-WB
5	1	Model ROS-X/ROS-Y	Model Poly DS-01 / 1µ	Model lubricant-WB



Sample material	Titanium solution 1			
Cutting process	Cutting disc recommended: models type-C			
Mounting process	Mounting resin recommended: all mounting resins			
Grinding/polishing process				
Step	Grinding disc recommended / Grit	Polishing cloth recommended	Diamond product recommended / Grit	Lubricant recommended
1	Model Grinding-H2O / 54µ	1	1	Water
2	1	Model BAG-X/BAG-Y	Model Poly DS-01 / 9µ	Model lubricant-WB
3	1	Model CAB-X/CAB-Y	Model CS-SP	1

Sample material	Titanium solution 2				
Cutting process	Cutting disc recommended: model type-C				
Mounting process	Mounting resin recommended: all mounting resins				
Grinding/polishing process					
Step	Grinding disc recommended / Grit	Polishing cloth recommended	Diamond product recommended / Grit	Lubricant recommended	
1	Model abrasive SIC-X/ Abrasive SIC-Y / P180	1	I	Water	
2	Model abrasive SIC-X/ Abrasive SIC-Y / P320	1	I	Water	
3	Model abrasive SIC-X/ Abrasive SIC-Y / P600	1	1	Water	
4	Model abrasive SIC-X/ Abrasive SIC-Y / P1000	1	I	Water	
5	Model abrasive SIC-X/ Abrasive SIC-Y / P4000	I	I	Water	
6	1	Model CAB-X/CAB-Y	Model CS-SW or model CS-SP	1	





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DEVCO S.r.I.

Via Marzabotto, 59 - 20037 Paderno Dugnano (MI) Tel: +39 02 83591153 - Fax: +39 02 95441300 www.echo-lab.it - e-mail: info@echo-lab.it

Sales Office and Showroom

Via dell'Innovazione, 9 - 20032 Cormano (MI)