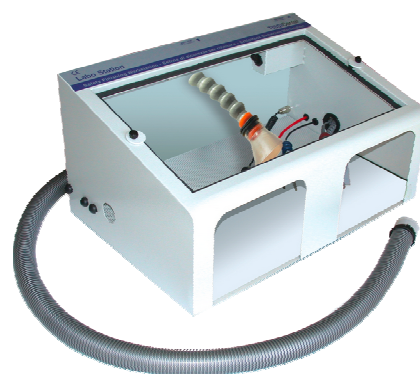
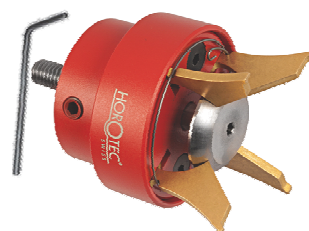
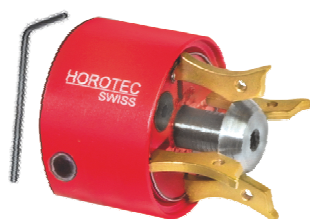


23



POLISHING TOOLS

23 - 2

POLISHING MACHINES

23 - 5

SANDBLASTERS / SUCTION

23 - 9

Hand polishing system developed for the watch industry, particularly for watch cases finish, and modified by HOROTEC® for the after sales service.
These 2 versions tools are composed of a vice with 4 brass claws (inside tightening from Ø 14 to 34 mm and from Ø 25 to 50) mounted on ball bearings, allowing the POLISHING WITHOUT RISKING ANY FLATTENING on the item worked on (watch case, bezel, case back, ring, etc.). As soon as one comes in contact with the brush, the system starts turning at the same speed as the brush.



MSA	Model	Kg
23.501	Bobino with vice MSA23.501-A (clockwise threading), Ø 14...34 mm	0.780
23.504	Bobino with vice MSA23.504-A (clockwise threading), Ø 25...50 mm	0.780



MSA	Model	Kg
23.502	Bobino with vice MSA23.501-E (counter clockwise threading), Ø 14...34 mm	0.780
23.505	Left turning Bobino MSA23.504-E (counter clockwise threading), Ø 25...50 mm	0.780

Delivered with an Allen key to adjust the separation of the 4 claws and to block the vice on the threading of the Bobino. The back screw is used to adjust the rotation of the Bobino. It allows to completely stop it or to have a free rotation. The underneath lever allows to tighten the claws for a quick change of the polishing parts.



There is no more contact between the fingers and the item to polish.

For voluntary blocking, just hold the base of the red vice.





MSA	Model	Kg
23.501-C	Bobino (clockwise threading), thread Ø 16 mm	0.700
23.501-B	Bobino (counter clockwise threading), thread Ø 16 mm	0.700

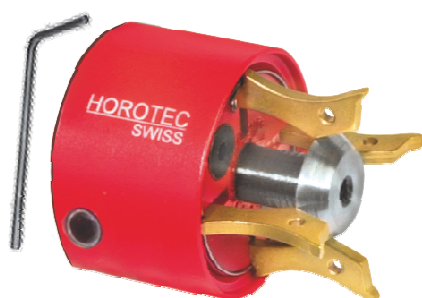


Delivered with 1 Allen key.



MSA	Size	Kg
23.501-P	Ø 32 x 90 mm	0.050

Handle for polishing tools MSA23.501, MSA23.502, MSA23.504, MSA23.505, MSA23.501-B et MSA23.501-C.



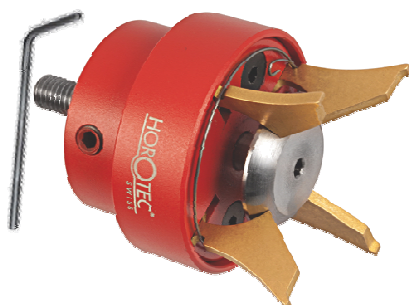
MSA	Model	Kg
23.501-A	Vice (clockwise threading), thread Ø 16 mm	0.080
23.501-E	Vice (counter clockwise threading), thread Ø 16 mm	0.080

Spare parts :

MSA	Item	Kg
23.500-A	Assortment of 4 claws	0.010
23.501-G	Spring	0.001



Delivered with an Allen key to adjust the separation of the 4 claws (Ø 14 to 34 mm) and to block the vice on the threading of the Bobino.



MSA	Model	Kg
23.504-A	Vice (clockwise threading), thread Ø 16 mm	0.080
23.504-E	Vice (counter clockwise threading), thread Ø 16 mm	0.080

Spare parts :

MSA	Item	Kg
23.503-A	Assortment of 4 claws	0.010
23.504-G	Spring	0.001



Delivered with an Allen key to adjust the separation of the 4 claws (Ø 25 to 50 mm) and to block the vice on the threading of the Bobino.

MANUAL USE : the brass claws adjustment is made by clockwise turning the end cylinder ; the item to polish is hold from the inside. Used by handling the hexagonal vice during the polishing.

USE ON POLISHING MOTOR ARBOUR : first fix the piece to be polished on the brass claws, then fix the vice on the polishing motor arbour and tighten it with 2 screws using the provided hexagonal key.

The end cylinder is reamed to about Ø 14 mm, to fix the vice on the motor arbour.

Optional reduction die is deliverable to fit the vice on Ø 9 mm motor axle.

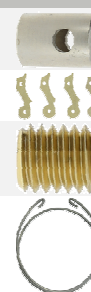


MSA	Ø reaming	Size	Kg
23.500	14 mm	Ø 35 x 80 mm	0.250

Polishing vice with 4 brass claws, tightening from Ø 14 to 34 mm.

Spare parts :

MSA	Item	Kg
23.500-09	Reduction die Ø 9 mm	0.016
23.500-A	Assortment of 4 claws	0.010
23.500-V	Maintaining screw of axis	0.001
23.501-G	Spring	0.001



MSA	Ø reaming	Size	Kg
23.503	14 mm	Ø 39 x 80 mm	0.180

Polishing vice with 4 brass claws, tightening from Ø 25 to 50 mm.

Spare parts :

MSA	Item	Kg
23.500-09	Reduction die Ø 9 mm	0.016
23.500-V	Maintaining screw of axis	0.001
23.503-A	Assortment of 4 claws	0.010
23.504-G	Spring	0.001



PRECITEC
QUALITY

POLYTEC

This range of polishing machines with its modern and ergonomic design has superior technical characteristics (most powerful motor in its class) and differs from other devices in numerous points.

Six different models are currently available with 1 or 2 workstations.

- Extremely user-friendly
- Folding plexiglas protection cover over the working area
- Provides exceptionally good absorption performance with its revised air transfer
- Polishing with this machine provides fully professional conditions of work and guarantees you performance, reliability and longevity
- Regardless of the pressure applied on the brushes, the torque remains constant (no decrease in rotation speed)
- A complete list of spare parts available like spindles, adaptors, filters and protections.



MSA	Voltage	Speeds	Rotations/minute	Size WxDxH	Kg
23.005	230 V	Adjustable *	300...3'000	680 x 370 x 460 mm	43.200
23.005-110	115 V	Adjustable *	300...3'000	680 x 370 x 460 mm	43.200

Features :

- Vacuum : 750 m3/hour (each side)
- Lighting : 4x 9 LED 1600 Lumen (each side)
- Ø brush : 160 mm maximum
- Motor power : 0.55 kW, constant torque
- Power supply : 230 or 115 V (50 Hz).

* Adjustable speed from 300 to 3000 rotations/minute in steps of 5 rotations/minute.
The selected speed is shown on the display.



MSA23.003

2 spindles



MSA23.004

MSA	Voltage	Speeds	Rotations/minute	Size WxDxH	Kg
23.003	230 V	2	1'500 - 3'000	680 x 370 x 460 mm	52.000
23.004	230 V	Adjustable *	300...3'000	680 x 370 x 460 mm	49.000

Features :

- Vacuum : 750 m3/hour (each side)
- Lighting : 4x 9 LED 1600 Lumen (each side)
- Ø brush : 160 mm maximum
- Motor power : 0.55 kW, constant torque
- Power supply : 230 V (50 Hz).

* Adjustable speed from 300 to 3000 rotations/minute with a VARIO button.



MSA23.000



MSA23.001



MSA23.002

MSA	Voltage	Speeds	Rotations/minute	Size WxDxH	Kg
23.000	230 V	1	3'000	460 x 370 x 460 mm	34.000
23.001	230 V	2	1'500 - 3'000	460 x 370 x 460 mm	38.000
23.002	230 V	Adjustable *	300...3'000	460 x 370 x 460 mm	34.000

Features :

- Vacuum : 750 m3/hour (each side)
- Lighting : 4x 9 LED 1600 Lumen (each side)
- Ø brush : 160 mm maximum
- Motor power : 0.55 kW, constant torque
- Power supply : 230 V (50 Hz).

* Adjustable speed from 300 to 3000 rotations/minute with a VARIO button.

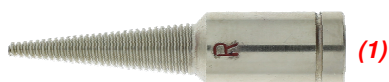


MSA	Speeds	Rotations/min.	Size WxDxH	Kg
23.600	2	1'500 - 3'000	310 x 240 x 285 mm	13.500

Polishing motor.

Motor power : 0.50 kW.

Power supply : 220/240 V.



Spare parts :

MSA	Item	Kg
23.600-A	(1) Right-sided tapered spindle	0.067
23.600-B	Left-sided tapered spindle	0.067

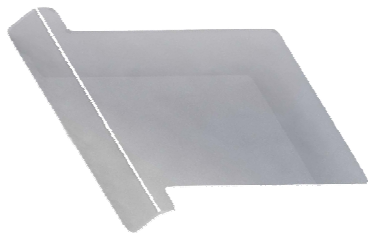


MSA	Size WxDxH	Kg
23.601	250 x 240 x 285 mm	3.100

Dust collector for polishing motor MSA23.600.

POLISHING MACHINES

Spare parts for the polishing machines PRECITEC®.



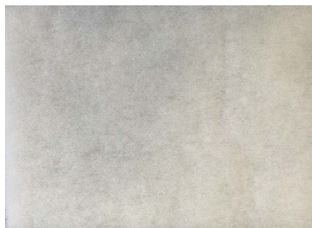
MSA	Size	Kg
23.000-A	227 x 216 mm	0.143

Plexiglas protection.



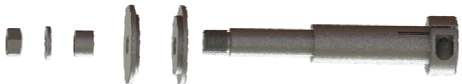
MSA	Size	Kg
23.000-B	265 x 190 x 16 mm	0.026

Fibre filtre.



MSA	Size	Kg
23.000-C	258 x 178 x 48 mm	0.106

Cartridge filtre.



MSA	Size	Kg
23.000-D	Ø 68 x 140 mm	0.683

Grinding wheel.



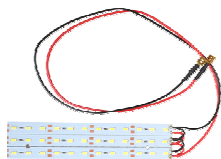
MSA	Size	Kg
23.000-E	Ø 34 x 145 mm	0.228

Right-sided tapered spindle.



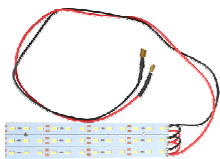
MSA	Size	Kg
23.000-F	Ø 34 x 145 mm	0.228

Left-sided tapered spindle.



MSA	Size	Kg
23.000-G	165 x 36 mm	0.041

Left LED.



MSA	Size	Kg
23.000-H	165 x 36 mm	0.041

Right LED.



MSA	Model	Size	Kg
23.000-I	Left side	230 x 370 x 230 mm	1.380
23.000-J	Right side	230 x 370 x 230 mm	1.380

Protection cover.

Microsandblasters.



(1)



(2)

MSA	Model	Voltage	Size WxDxH	Kg
23.800	2 containers	230 V	400 x 420 x 330 mm	18.000
23.801	3 containers	230 V	400 x 420 x 330 mm	20.000

Ergonomic microsandblaster for the surface treatment of metals, resins and ceramics.

- Anti-humidity system
- Precise sanding
- Pneumatic foot pedals.

Spare parts :

MSA	Item
23.800-T08	Tip, Ø 0.80 cm / For grain 50-100 µ
23.800-T12	Tip, Ø 1.20 cm / For grain 80-180 µ and glass beads
23.800-T15	Tip, Ø 1.50 cm / For grain 150-250 µ
23.808-A	Complete air filter with pressure gauge
23.808-B	Neon lamp
23.808-C	Glass protection, pack 5 pieces
23.808-D	Spare glove
23.808-E	Complete air syringe

Consumables :

MSA	Item
23.809-050	High purity aluminium oxide, silicium free. Grain 50 µ, bottle of 5 Kg
23.809-100	High purity aluminium oxide, silicium free. Grain 100 µ, bottle of 5 Kg
23.809-150	High purity aluminium oxide, silicium free. Grain 150 µ, bottle of 5 Kg
23.809-200	High purity aluminium oxide, silicium free. Grain 200 µ, bottle of 5 Kg
23.809-250	High purity aluminium oxide, silicium free. Grain 250 µ, bottle of 5 Kg
23.809-GB	Glass beads



It is recommended to use the microsandblasters with the following suction systems.

Suction systems.



MSA	Power	Size WxDxH	Kg
23.810	400-1000 W	330 x 250 x 380 mm	12.000

Portable unit for suction of dust, residues and abrasives. This professional and silent device has an adjustable suction power and is equipped with 4 fabric filters.
- For use with the microsandblasters MSA23.800 and MSA23.801 and the cabinets MSA23.812 and MSA23.813.

Spare parts :

MSA	Item
23.819-A	Spare motor filter
23.819-B	Spare filter, 4 pieces
23.819-C	Air hose, 2 metres



MSA	Power	Size WxDxH	Kg
23.811	400-1000 W	330 x 330 x 380 mm	15.000

Portable double unit for suction of dust, residues and abrasives.
For diversified simultaneous use.
This professional and silent device has an adjustable suction power and is equipped with 4 fabric filters.
- For use with the microsandblasters MSA23.800 and MSA23.801 and the cabinets MSA23.812 and MSA23.813.

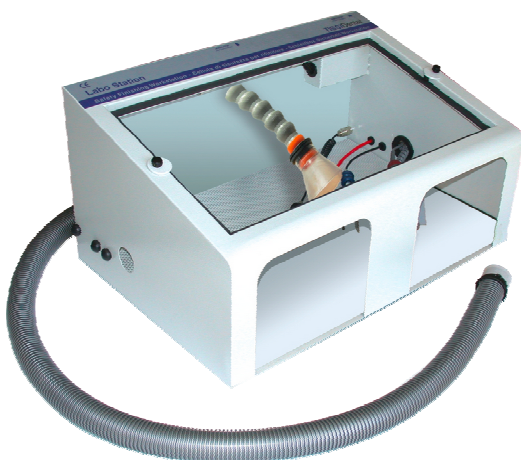
Spare parts :

MSA	Item
23.819-A	Spare motor filter
23.819-B	Spare filter, 4 pieces
23.819-C	Air hose, 2 metres



MSA	Size WxDxH	Kg
23.812	320 x 300 x 250 mm	3.000

Working cabinet for micromotors.
A removable drawer makes it easy to collect the residues of the precious alloys used.
The fitting with hose allows the connection of the portable vacuum cleaners MSA23.810 and MSA23.811.
Excellent working visibility, sealed Plexiglas cabinet.



MSA	Size WxDxH	Kg
23.813	600 x 400 x 400 mm	15.000

Safety cabinet for finishing work with micromotors.
This device is equipped with several side entrances on the left and right, a neon light, a fast-air connector and a power supply for the portable vacuum cleaners MSA23.810 and MSA23.811.
- Bright and wide working area
- Easy-to-clean heavy-duty grid collector
- Solid and reliable construction.