

# 1-side Polishing, Lapping and Flat Honing

Precision and Safety – User-friendliness – High productivity



## 1-side Polishing, Lapping and Flat Honing



In the manufacture of small to medium sized work pieces, absolute precision, superior quality and economic efficiency are often of paramount importance. Requirements that are fully and comprehensively satisfied by our FLM 500 and 550 range of machines. Lapping or polishing with free-rolling particles or flat honing with fixed abrasives wheels - the machine of

our FLM 500 and 550 range are space saving in their dimensions but high in performance. Their operational application is mainly concentrated on small to medium series. And their technological advantages are well in evidence:

- Quick adjustment of the lapping wheel by means of central screw

- Laid out for thin and small work pieces (Thickness <0.3 mm)
- Flexible changeover to other processes
- Wheel cooling and continuously variable drive
- Easy and fast wheel changing



## Technical data

	FLM 500	FLM 550
Lapping-plate, outer Ø	500 mm	550 mm
3 conditioning-rings, inner Ø	190 mm	220 mm
Rotating speed of lapping plate	0 - 75 min <sup>-1</sup>	0 - 75 min <sup>-1</sup>
Timer	digital	digital
Main drive	2,2 kW	2,2 kW
Voltage	3x400-480 Volt, 50/60 Hz	3x400-480 Volt, 50/60 Hz
Dimension L x W x H	850x1200x1450 mm	850x1200x1450 mm
Weight	approx. 480 kg	approx. 480 kg
Colour	Pearl white RAL 1013 Vermilion RAL 2002	Pearl white RAL 1013 Vermilion RAL 2002

Options		
Pneumatic pressure adjustable, 3 cylinders	50-750 N	50-750 N
Cooling unit		yes
Loading- and unloading table		yes
Turning device		yes
Polishing systems		yes
Dimension with pneumatic	850x1200x1850 mm	850x1200x1850 mm





## 1-side Polishing, Lapping and Flat Honing



Lapping or polishing with free-rolling particles or flat honing with fixed or super abrasive wheels – the machines of our FLM 750 – 1500 range are real all-rounders. Their employment in both large and small manufacturing shops is multipurpose and includes single piece machining as well as performance oriented series production.

Their technological advantages are well in evidence:

- Quick adjustment of the lapping wheel by means of central screw
- Optimal maintaining of a flat working wheel
- Wheel cooling
- Quick and easy wheel change
- Stable bearing arrangement for quiet operation
- Modern single arm pneumatic construction for optimal accessibility and reduction of working times
- Various dosage systems of lapping and polishing materials for economic consumption

## Technical data

	FLM 750	FLM 1000	FLM 1250	FLM 1500
Lapping-plate, outer Ø	750 mm	1000 mm	1250 mm	1500 mm
3 conditioning-rings, inner Ø	300 mm	400 mm	500 mm	600 mm
Rotating speed of lapping plate	0 - 75 min <sup>-1</sup>	0 - 60 min <sup>-1</sup>	0 - 50 min <sup>-1</sup>	0 - 40 min <sup>-1</sup>
Timer	digital	digital	digital	digital
Main drive	4 kW	7,5 kW	15 kW	22 kW
Voltage	3x400-480 Volt 50/60 Hz	3x400-480 Volt 50/60 Hz	3x400-480 Volt 50/60 Hz	3x400-480 Volt 50/60 Hz
Dimension L x W x H	1250x1700x2200 mm	1500x2000x2200 mm	1850x2500x2300 mm	2000x2500x2300 mm
Weight	approx. 2500 kg incl. pneumatic	approx. 3000 kg incl. pneumatic	approx. 4000 kg incl. pneumatic	approx. 6000 kg incl. pneumatic
Colour	Pearl white RAL 1013 Vermilion RAL 2002	Pearl white RAL 1013 Vermilion RAL 2002	Pearl white RAL 1013 Vermilion RAL 2002	Pearl white RAL 1013 Vermilion RAL 2002

Options				
Pneumatic pressure adjustable, 3 cylinders	50-1800 N	50-2700 N	50-4850 N	50-6880 N
Cooling unit	yes			
Loading- and unloading table	yes			
Turning device	yes			
Indexing for loading/turning/unloading	yes			
Polishing systems	yes			



## Special Purpose Machinery Manufacture

### FLM 755-4R-H

Production Flat Honing Machine with loading and unloading table as well as integrated measuring system, loading and unloading by means of "Sandwich-System" used on 2-wheel machines.



### FLM 2200-P 2R

High-End Optic Polishing Machine with pitch coating for highest polishing qualities in terms of flatness and surface roughness. Integrated CNC milling system, washing station, polishing liquid tank for cleanroom polishing works on glass and zerodur in 24 hours operation.





## FLM 2450 C



Lapping machine with wheel diameter 2450 mm for machining precise and concave surfaces.

Optional available full-guard covering with sliding doors.

## FLM 3250-3R



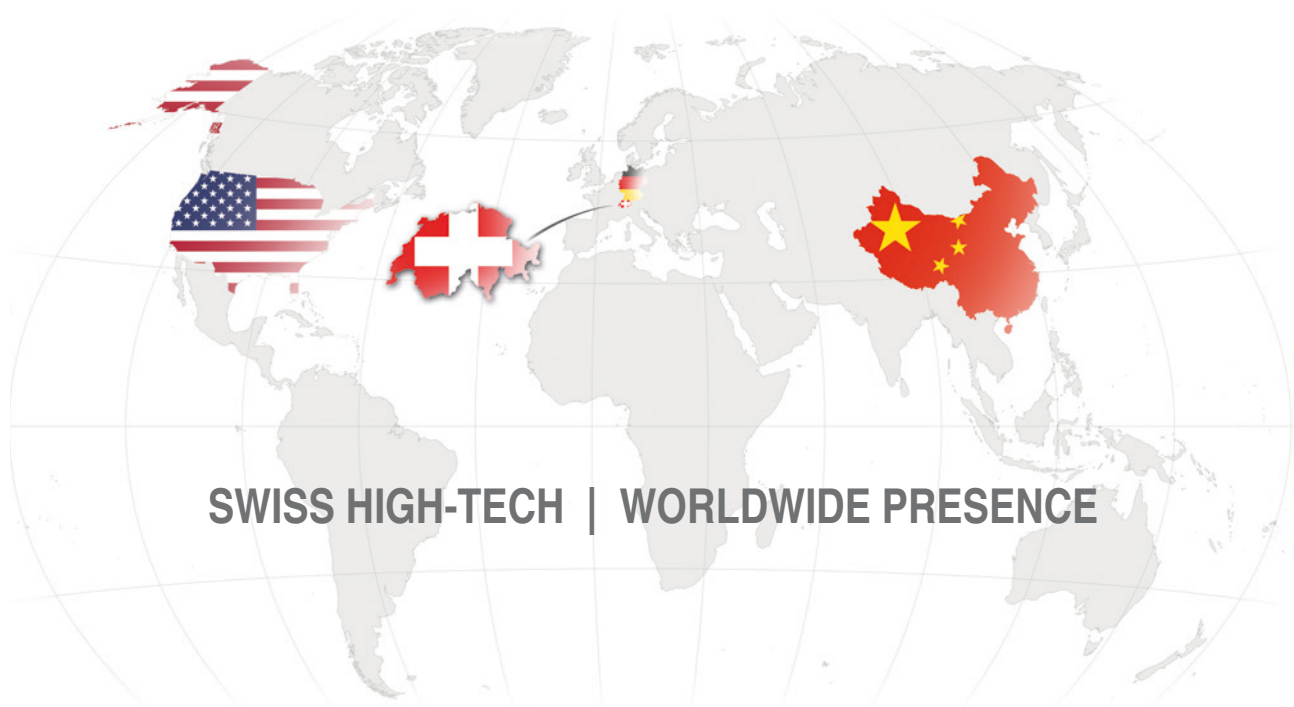
Production lapping machine for parts up to 1500 mm in diameter. Programmable force on work pieces between 0-750 daN.

*We are one of the leading companies worldwide in the manufacture of flat honing, lapping and polishing machines. At our customers we are known just as much by our standard products as by custom-made and need-oriented special products. This special know-how results from*

*decades of experience from daily new assignments in contract work and the support of our expert and committed workforce. We are happy to pass on our know-how to our customers within the framework of contract work, tests and complex or experimental project studies.*

*Put to the test our reliability and innovative dynamism.*

*Further information may be obtained from the addresses listed or from our homepage.*



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