

SHL SWIVELLING SINGLE OR DOUBLE POLISHING MACHINE TYPE EP 1000 / DP 1000 ROB WITH DPE-G

The SHL swivelling single or double polishing machine type EP 1000 ROB or DP 1000 ROB (stationary or swivelling) is designed for use in robot polishing plants.

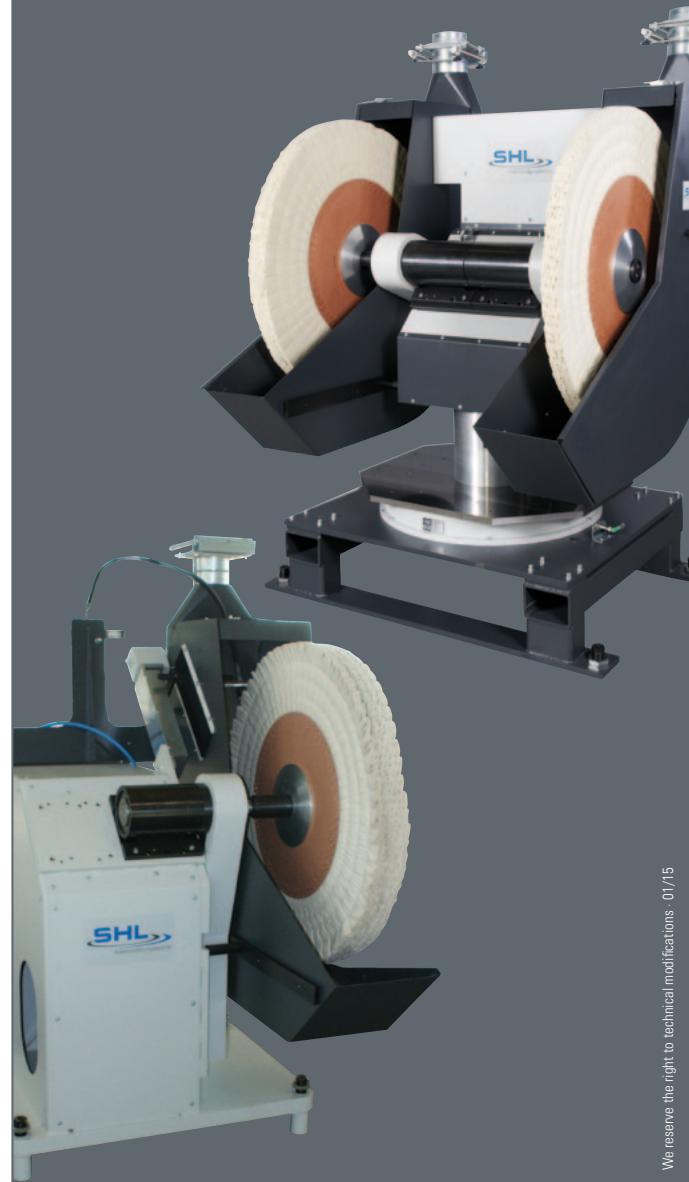
All the electronic elements required for the machine are inside a switching cabinet. From there, the machine is connected to the robot via a PROFINET system to create a functional unit. The machining unit, located on a machine plinth, can be swivelled steplessly to the left and right from its central position. With the EP

1000 ROB, the polishing machine is equipped with a single spindle (layout left or right) to accommodate one single polishing disk. With the DP 1000 ROB, the polishing machine is equipped with a double polishing spindle or two single spindles to accommodate two sets of polishing disks.

The robot program readjusts automatically if the disk is worn out, while the spindle speed is increased to compensate for the polishing speed.

Special Design Features

- One/two microprocessor-controlled frequency modulators for stepless regulation of spindle speed.
- Digital display of spindle speed for precise coordination of speed levels in different areas of application respectively.
- Pressure-actuated offset of polishing-disk wear via a robot. Adaptation of spindle speed during reduction of disk diameter takes place automatically via the robot control.
- One/two polishing disk sets, independent of one another in speed and diameter, enable optimal machining during use. Therefore, various products can be polished and the polishing disks can also be used differently.
- One/two liquid abrasive installations (optional also solid abrasive), integrated into the polishing station for easy access and functionally connected to the robot control, each featuring:
 - One high-pressure abrasive pistol with nozzle plus the necessary control and operation elements for controlling the abrasive paste by means of the robot program.
 - Automatic repositioning, which automatically repositions the paste device when the disk diameter is reduced, thus keeping the distance from the disk constant at all times.
- Optional
 - Stepless, dynamic and easy to operate swivelling device $\pm 90^\circ$, resulting in good accessibility during programme generation. Optional: Stepless or incremental.
 - Also available with solid abrasive supply.



TYP EP 1000 ROB AND DP 1000 ROB



EP 1000 ROB



DP 1000 ROB with DPE-G

Technical data

	EP 1000 ROB	DP 1000 ROB
Disk diameter:	550 - 1000 mm	
Motor output:	1 x 7,5 kW	2 x 7,5 kW
Spindle diameter:	45 mm	
Spindle rpm:	Infinitely adjustable ca. 300 – 700 min-1	
Max. polishing package width:	1 x 100 mm	2 x 100 mm
Optional with extended spindle:	1 x 180 mm	2 x 180 mm
Vacuum extraction connection:	ø 140 mm	
Dimensions (L x W x H):	ca. 1480 mm x 1050 mm x 1880 mm	ca. 1480 mm x 1250 mm x 1880 mm
Swivelling radius with DPE-G (optional)	± 90° stepless or incremental	
Paint:	Light grey (RAL 7035) Anthracite grey (RAL 7016)	
Power connection:	400 V, 3 phase, 50 Hz	
Weight:	ca. 850 kg	ca. 1000 kg
Required suction performance: 1	1700m3/h at Δ p = -850 Pa	
Liquid abrasive:	High-pressure abrasive pistol	
Solid abrasive:	optional	



SHL Automatisierungstechnik AG
Spaichinger Weg 14, D-78583 Böttingen

Fon: +49-(0)7429 - 9304-0
Fax: +49-(0)7429 - 9304-50
Internet: www.shl.ag
E-Mail: info@shl.ag