

SHL – MODULAR CONTACT ROLLER GRINDING MACHINE TYPE EKS 250/450

NEW

More flexibility, more efficiency: the new SHL machine concept!

With the new, modular SHL machine concept, you can adapt your systems to all requirements even more easily. Thanks to new modules, at any time you can react quickly and flexibly to changed requirements.

Act on a modular basis, work efficiently, remain flexible: witness a surface being processed in a way you've never seen before. The new modular SHL machine concept has been designed for use in robot grinding systems. The machine is connected to the robot to create a single functioning unit by means of an SHL bus system.

The SHL-EKS machine concept wins approval thanks to its robust, stable construction.

Several modules stacked on top of each other create more flexibility. In this way, you can achieve much higher efficiency and an even better performance in your production facility.

Our components, your benefits.

The new SHL-EKS machine is the right investment in the future of your business. In addition to the compact structure, it allows you to stack several modules on top of each other. You will always get the optimum machine concept – for simple component geometries as well as for processing costsensitive parts.

In order to process your components flexibly and perfectly, just as required, you can use three different belt grades (grain sizes) as well as three different contact rollers (contact roller diameters, profiles and hardnesses).

The new SHL modular machine concept

Modular, efficient, flexible

Act on a modular basis, work efficiently, remain flexible: witness a surface being processed in a way you've never seen before.

- Compact structure
- for easy applications and simple component geometries
- Perfectly suited...
...for easy applications and simple component geometries
...for cost-sensitive components and applications

Special design features

- Contact disk diameters of 250 to 450 mm
- Sensitive and steplessly programmable control of the contact disk contact pressure to compensate for workpiece tolerances
- Controlled frequency inverters for stepless control of the spindle speed
- Motor-controlled belt re-tensioning device to keep the belt tension constant



SHL-EKS MODULAR SYSTEM

- Digital display of the drive spindle's speed in the central control panel to adjust the speed level exactly to the job in question with regard to contact disk diameter and the materials to be ground
- Pneumatically activated, automatic belt slackening during belt changing
- Even more flexible and easier to access thanks to the integration of the DPE series, as an option
- Powered contact roller

Module technical data

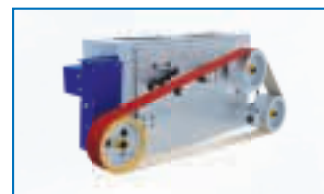
Disk diameter:	250 – 450 mm
Motor power:	4 kW (optional 5.5 kW)
Spindle speed:	min. 300 rpm max. 3,500 rpm
Spindle diameter:	35 mm
Grinding belt length:	3,500
Max. grinding belt width:	100 mm
Free belt:	no
Electrical connection:	400 V, 3 phase, 50 Hz
Belt tension:	min. 0.3 bar max. 7 bar
Contact pressure:	min. 0.0 bar max. 7 bar
Suction connection:	140 mm
Dimensions (L x W x H):	1622 x 630 x 650 mm (without motor)
RAL color:	7035 / 7016
Weight:	approx. 210 kg (module)
Required suction power:	V = 1,700 m ³ /h where $\Delta p = -850$ Pa



3 modules: right or left

2 modules: right or left

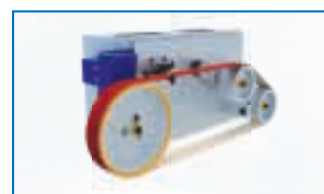
OPTIONS



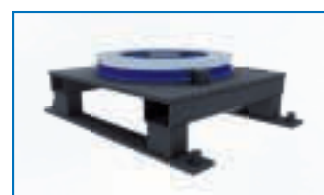
Contact roller \varnothing 250 mm



Contact roller \varnothing 350 mm



Contact roller \varnothing 450 mm



Combination with DPE-G – for even more flexibility and better accessibility → DPE-G datasheet



Contact roller qualities



Optional door for an extra



Headquarters in Boettingen, Germany

Specializing in high-tech for many years now

A process- and solution-oriented automation system house – with all services from a single source: SHL plans, designs and produces robot installations and systems for grinding, polishing, deburring, brushing and milling as well as for different handling tasks.

With qualified specialists covering different areas of expertise, the Böttingen-based technology company has created over 2,000 robot installations so far – throughout the world in companies from different sectors such as the water fittings industry, automotive supply industry, aluminum diecast door fitting industry, medical technology and household devices industry. SHL is thus one of the largest automation system houses in the fields of grinding, polishing and deburring.



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