

Surface Grinding Machine SSM

The grinding machine type SSM is designed for grinding flat and spherical components up to ø500mm. With the appropriate options, the machine can also be used for grinding of aspheric lenses and prisms or precision contour grinding.

The SSM is available with 1 to 5 axes. The basic equipment consists of a vertical NC axis (Z), a belt-driven spindle with internal flushing and a work-piece spindle.

An optional HSK spindle is available, which can also be connected with an automatic tool changer. The axes are separated from the working area in order to perfectly protect them from grinding swart. The complete machine cover is made of stainless steel to provide an easy to clean environment and a long life time of the machine.

The work-pieces are hold by vacuum or pneumatic clamping devices. The grinding process can optionally be controlled and managed by a force measurement system or by the spindle power. The control of the machine features different feed rates during grinding and a dwell time at the end of the grinding process for smoothing the surface.

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The B&R CNC control system offers an easy to work environment. Specific dialogues simplifies the set up and shortens the programming. The touch screen gives a good process overview and is a comfortable interface.

The machine is based on the modulare machine concept from dama technologies ag. A wide range of options, such as tool measurement device, coolant pressure monitoring system, optical working control system and fixation plate etc. guarantee to match perfectly the required specifications.

Technical data SSM

X-axis Traversing path 470 mm

Digital display 0,001 mm

Speed 0 - 5'000 mm/min

200 mm Y-axis Traversing path

Digital display 0,001 mm

Speed 0 - 5'000 mm/min

Z-axis Traversing path 400 mm

Digital display 0,001 mm

Speed 0 - 5'000 mm/min

B-axis (optionally) Swivel range +/- 45°

Digital display 0,001°

Spindle 4 kW, programmable from 500 - 5'000 rpm

Workpiece spindle 1.5 kW, programmable from 20 – 200 rpm

Carrying plate with vacuum clamping up to ø550

Force measuring system

(optionally)

0 - 200 (2000) Newton for feed control for Z-axis

Control for X, Y, and Z-axis movement B&R PP520

- Touch Screen as operator interface

- Force indication optionally

- Spindle load indication

- Emercency stop

B&R CNC control

- Logic unit for 3 axes and 1 spindle

- Hand wheel

Splashing protection doors with windows, complete stainless steel enclosure

Dimensions Length ca. 2'000 mm

ca. 1'800 mm Width Height ca. 2'400 mm ca. 3'100 kg Weight

Electrical connection 3x400V / 50Hz, 3L+N+PE / max. 32A

Compressed ari connection 6bar

Colour RAL 7035 / 3003

The machine complies with the European directives of **CE-conformity**

the CE regulation

