



THE NEW ART OF GRINDING – ROTARY TABLE GRINDING MACHINES Z-SERIES

## ROTARY TABLE GRINDING MACHINES Z-SERIES

### Features

- Sturdy cast iron execution of all machine components
- High machine weight for maximum rigidity
- Preloaded precision linear guideways in the vertical and cross axis (Bosch Rexroth) for highest accuracy
- Electro-mechanic cross- and vertical motion
- Direct measuring system in vertical axis (Heidenhain) for exact positioning
- Encoder in cross axis
- Maintenance-free paper band filtration unit with 500 l tank and 2 bar pressure pump for effective cooling and rinsing
- Integrated rinsing channel
- Magnetic separator for prefiltration
- Power supply: 400 volt, 3 phases, 50 hertz
- Grinding spindle drive through coupling, eliminating heat transfer
- Infinitely variable grinding spindle motor

- Grinding spindle motor with constant cutting speed during the complete working range of the grinding wheel (v-constant)
- Super precision spindle bearings guarantee high durability
- Machine lamp (LED)
- Table-mounted dressing unit for high precision and surface finish
- Electro-permanent magnetic chuck (SAV) with integrated pole changing unit and traction regulation
- Regulation in 8 steps
- No heating of the magnetic chuck guarantees highest precision
- Full encapsulation with sliding door and service door on the face; effective splash guard with excellent accessibility
- Preparation of the machine for installation of a coolant mist exhaust unit; connection piece  $\varnothing = 200$  mm

### Control system features

- Very comfortable and easy to operate Z-control
- Automatic vertical positioning with compensation for the planing value
- Fully-automatic grinding cycle with planing cycles
- Easy operation via touchscreen
- Large, easy to read 10.4" colour display
- Electronic handwheel, effective for vertical and transverse axes

Machine type		Z 500R	Z 600R	Z 800R	Z 1000R
Cross travel	mm	550	550	800 x 500	1.000 x 600
Size of magnetic chuck $\varnothing$	mm	500	600	450	550
Distance table to spindle centre	mm	600	600	1.200	1.400
Table load incl. magnetic chuck	kg	500	600	600	600
Infeed cross axis	mm/min	0 – 2.000	0 – 2.000	0 – 2.000	0 – 2.000
Infeed vertical axis	mm/min	0 – 1.500	0 – 1.500	0 – 1.500	0 – 1.500
Grinding wheel dimensions	mm	400 x 80 x 127	400 x 80 x 127	400 x 80 x 127	400 x 80 x 127
Grinding spindle drive	kW	11	11	11	11
Rotary table speed	U/min rpm	10 – 100	10 – 100	10 – 100	10 – 100
Capacity cooling system	L	500	500	500	500
Machine dimensions [L x W x H(max)]	mm	2.730 x 3.250 x 2.740	2.730 x 3.250 x 2.740	3.330 x 3.410 x 2.770	3.330 x 3.410 x 2.770
Machine weight (approx.)	kg	5.500	5.700	7.500	7.800



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11/2022