

**ZIERSCH**



THE NEW ART OF GRINDING – SURFACE GRINDING MACHINES Z-SERIES

## SURFACE 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
- Scraped and turcite coated slideways in the longitudinal axis provide excellent vibration absorption and a high-quality grinding surface pattern.
- Hydraulic longitudinal motion with return cooling unit to achieve good surfaces
- Electro-mechanic cross- and vertical motion
- Measuring systems in vertical axis (Heidenhain) for precise positioning
- Maintenance-free paper band filtration unit with up to 500l tank and 2-bar pressure pump for effective cooling and rinsing

- Integrated rinsing channel
- Magnetic separator for prefiltration of the paper band filtration unit
- Infinitely variable grinding spindle motor
- Machine lamp
- Table-mounted dressing device for high precision and surface finish
- Electro-permanent magnetic chuck (SAV) with integrated pole changing unit and traction regulation
- Partial encapsulation of the machine with sliding door and a service door
- Effective splash guard and an excellent accessibility
- Preparation of the machine for installation of a coolant mist exhaust unit

### Control system features

- Very comfortable and easy to operate Z-control
- Automatic vertical infeed with dressing amount compensation
- Fully automatic grinding cycle with dressing cycles
- Easy operation via touchscreen
- Large and clear colour screen (10.4")
- Electronic handwheel, usable in vertical

Machine type		Z 24	Z 35	Z 48	Z 510	Z 612	Z 715
Grinding range	mm	400 x 250	500 x 350	800 x 500	1.000 x 600	1.200 x 700	1.500 x 800
Cross travel	mm	220	330	450	550	650	750
Longitudinal travel	mm	600	720	1.200	1.400	1.600	1.900
Distance table to spindle centre	mm	540	540	600	600	600	600
Size of magnetic chuck	mm	400 x 200	500 x 300	800 x 400	1.000 x 500	1.200 x 600	1.500 x 700
Table load incl. magnetic chuck	kg	250	500	700	1.000	1.300	1.600
Infeed longitudinal axis	mm/min	1.000 - 30.000	1.000 - 30.000	1.000 - 30.000	1.000 - 30.000	1.000 - 30.000	1.000 - 30.000
Infeed cross axis	mm/min	0,01 - 2.000	0,01 - 2.000	0,01 - 2.000	0,01 - 2.000	0,01 - 2.000	0,01 - 2.000
Infeed vertical axis	mm/min	0,001 - 1.500	0,001 - 1.500	0,001 - 1.500	0,001 - 1.500	0,001 - 1.500	0,001 - 1.500
Grinding wheel dimensions	mm	250 x 38 x 50,8	250 x 38 x 50,8	400 x 50 x 127	400 x 80 x 127	400 x 80 x 127	400 x 80 x 127
Grinding spindle drive	kW	3,7	5,4	11	11	11	11
Control range grinding spindle motor	U/min	1.000 - 4.500	1.000 - 4.500	1.000 - 3.000	1.000 - 3.000	1.000 - 3.000	1.000 - 3.000
Machine dimension [L x W x H(max)]	mm	3.050 x 2.450 x 2.510	3.040 x 2.500 x 2.510	3.990 x 2.860 x 2.740	4.730 x 3.020 x 2.740	5.140 x 3.380 x 2.740	5.730 x 3.580 x 2.740
Machine weight (approx.)	kg	3.050	3.350	6.600	7.280	8.400	9.300



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