



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

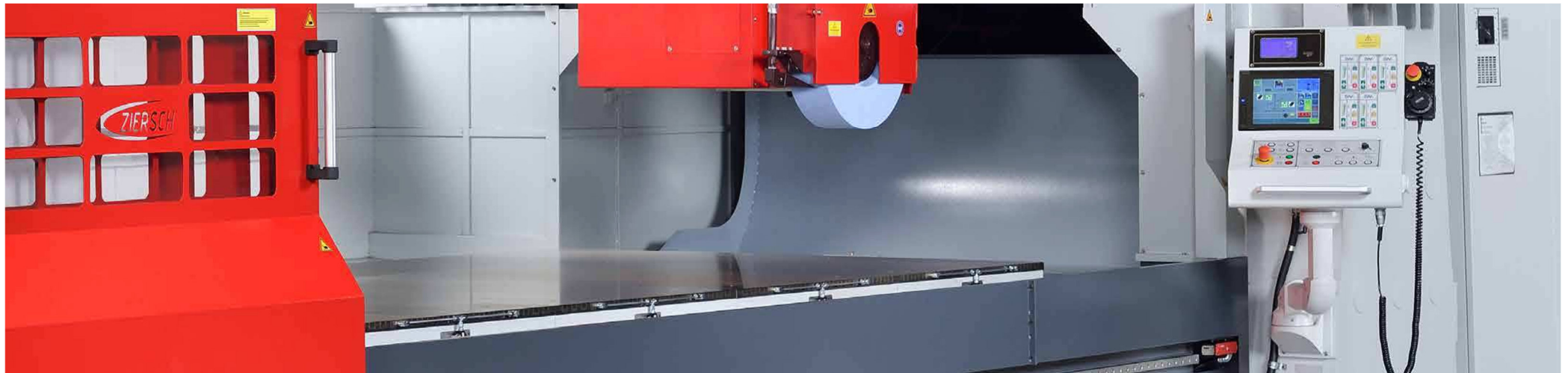
## PORTAL GRINDING MACHINES Z-SERIES

### Features

- For the grinding of large work pieces with a width of up to 2,200 mm. Large and heavy work pieces can quickly and effectively be machined on these portal grinding machines.
- Portal grinding machines with standard equipment alone are available at a very good price / performance ratio. Standard equipment includes amongst others the following:
  - Sturdy, cast iron execution of all machine components
  - Scraped and turcite coated slideways in the X-axis
  - Preloaded precision linear guideways in the Y-axis and Z-axis (Bosch Rexroth)
  - Hydraulic table motion with return cooling unit
  - Electro-mechanic cross- and vertical motion
  - Measuring system in vertical axis (Heidenhain) for precise positioning
  - Paper band filtration unit with 1,700 l tank and 5 bar pressure pump
  - Fully automatic grinding and dressing cycles
  - Additional magnetic separator for prefiltration of the paper band filtration unit
  - Integrated rinsing channel
  - Machine lamps
  - Table-mounted dressing device
  - Partial encapsulation of the machine with sliding door
  - High-performance spindle drive for efficient grinding

### Control system features

- 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- and cross axis



<b>Machine type</b>		<b>Z 1015</b>	<b>Z 1020</b>	<b>Z 1030</b>	<b>Z 1520</b>
Grinding range	mm	1.500 x 1.200	2.000 x 1.200	3.000 x 1.200	2.000 x 1.700
Cross travel	mm	1.100	1.100	1.100	1.600
Longitudinal travel	mm	2.000	2.500	3.500	2.500
Distance table to spindle centre	mm	1.050	1.050	1.050	1.050
Size of magnetic chuck	mm	1.500 x 1.000	2.000 x 1.000	3.000 x 1.000	2.000 x 1.500
Ground table size	mm	1.550 x 1.000	2.050 x 1.000	3.050 x 1.000	2.050 x 1.500
Table load incl. magnetic chuck	kg	3.000	4.000	6.000	4.500
Infeed longitudinal axis	mm /min	5.000 – 30.000	5.000 – 30.000	5.000 – 30.000	5.000 – 30.000
Infeed cross axis	mm /min	0,01 – 5.000	0,01 – 5.000	0,01 – 5.000	0,01 – 5.000
Infeed vertical axis	mm /min	0,001 – 3.000	0,001 – 3.000	0,001 – 3.000	0,001 – 3.000
Grinding wheel dimensions	mm	500 x 100 x 203,2	500 x 100 x 203,2	500 x 100 x 203,2	500 x 100 x 203,2
Grinding spindle drive	kW	22	22	22	32
Control range grinding spindle motor	U/mim	1.000 -3.000	1.000 -3.000	1.000 -3.000	1.000 -3.000
Distance between columns incl. enclosure	mm	1.250	1.250	1.250	1.900
Machine dimension [L x W x H(max)]	mm	7.680 x 4.840 x 4.550	7.850 x 4.840 x 4.550	9.890 x 4.840 x 4.550	8.500 x 5.500 x 4.670
Machine weight (approx.)	kg	20.000	22.000	26.000	36.000

<b>Machine type</b>		<b>Z 1530</b>	<b>Z 1540</b>	<b>Z 2030</b>	<b>Z 2040</b>
Grinding range	mm	3.000 x 1.700	4.000 x 1.700	3.000 x 2.200	4.000 x 2.200
Cross travel	mm	1.600	1.600	2.100	2.100
Longitudinal travel	mm	3.500	4.500	3.500	3.500
Distance table to spindle centre	mm	1.050	1.050	1.050	1.050
Size of magnetic chuck	mm	3.000 x 1.500	4.000 x 1.500		
Ground table size	mm	3.050 x 1.500	4.050 x 1.500	3.050 x 2.000	4.050 x 2.000
Table load incl. magnetic chuck	kg	6.000	8.000	10.000	12.500
Infeed longitudinal axis	mm /min	5.000 – 30.000	5.000 – 30.000	5.000 – 30.000	5.000 – 30.000
Infeed cross axis	mm /min	0,01 – 5.000	0,01 – 5.000	0,01 – 5.000	0,01 – 5.000
Infeed vertical axis	mm /min	0,001 – 3.000	0,001 – 3.000	0,001 – 3.000	0,001 – 3.000
Grinding wheel dimensions	mm	500 x 100 x 203,2	500 x 100 x 203,2	500 x 100 x 203,2	500 x 100 x 203,2
Grinding spindle drive	kW	32	32	32	32
Control range grinding spindle motor	U/mim	1.000 -3.000	1.000 -3.000	1.000 -3.000	1.000 -3.000
Distance between columns incl. enclosure	mm	1.900	1.900	2.400	2.400
Machine dimension [L x W x H(max)]	mm	10.510 x 5.500 x 4.670	12.530 x 5.500 x 4.670	10.510 x 5.500 x 4.700	12.300 x 5.500 x 4.700
Machine weight (approx.)	kg	39.000	42.000	43.000	47.000



Machine type		Z 2050
Grinding range	mm	5.000 x 2.200
Cross travel	mm	2.100
Longitudinal travel	mm	5.500
Distance table to spindle centre	mm	1.050
Size of magnetic chuck	mm	
Ground table size	mm	5.050 x 2.000
Table load incl. magnetic chuck	kg	15.000
Infeed longitudinal axis	mm/min	5.000 – 30.000
Infeed cross axis	mm/min	0,01 – 5.000
Infeed vertical axis	mm/min	0,001 – 3.000
Grinding wheel dimensions	mm	500 x 100 x 203,2
Grinding spindle drive	kW	32
Control range grinding spindle motor	U/mim	1.000 -3.000
Distance between columns incl. enclosure	mm	2.400
Machine dimension [L x W x H(max)]	mm	12.300 x 5.500 x 4.700
Machine weight (approx.)	kg	50.000

Ziersch GmbH  
Am Vogelherd 60  
98693 Ilmenau, Germany

+49 3677 76132-0

[www.ziersch.com](http://www.ziersch.com)  
[info@ziersch.com](mailto:info@ziersch.com)

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