



Fig. shows product samples and may differ from the original.

THE NEW ART OF GRINDING - CYLINDRICAL GRINDING MACHINES



## CYLINDRICAL GRINDING MACHINES ZR 600 / ZR 1000

- User friendly Z-Control with high comfort
- Automatic infeed with compensation of the dressing amount
- Fully automatic grinding cycle with dressing cycles
- Grinding cycles:
  - Cylindrical grinding
  - Shoulder grinding
  - Roughing / finishing / sparking out
- Easy operation via touchscreen
- Large and clear colour screen 10.4"
- Electronic handwheel, usable in X- and Z-axis, adjustable increments of 0.001 and 0.01 mm
- Stable cast iron execution of all machine components
- High machine weight for max. rigidity

- Preloaded precision linear guideways in X-axis (Bosch Rexroth) for highest accuracy
- Scraped V slideways in Z-axis provide excellent damping characteristics and high quality micrograph
- Electro-mechanic longitudinal and cross motion
- Direct measuring system in X-axis (Heidenhain) for exact positioning
- Encoder in Z-axis
- Maintenance-free paper band filtration unit with 250 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

- Infinitely variable grinding spindle motor
- Grinding spindle motor with constant cutting speed during the complete working range of the grinding wheel ( $v_{\text{constant}}$ )
- Super precision spindle bearings guarantee high durability
- Machine lamps
- Tailstock-mounted dressing unit for high precision and surface finish with a fixture for 1 dressing diamond
- Automatic central lubrication in Z-axis
- Partial encapsulation of the machine with sliding door

<b>Capacity</b>	Center height	mm	155
	Max. grinding diameter	mm	300
	Max. distance between centers	mm	600/1,000
	Max. grinding length	mm	600/1,000
	Max. workpiece weight floating	kg	45
	Max. workpiece weight between centers	kg	100/150
<b>X-axis</b>	Feed	m/min	0.001 ~ 1.5
	Smallest feed at diameter	mm	0.001
<b>Z-axis</b>	Feed	m/min	0.001 ~ 2
	Smallest feed	mm	0.001
	Swivel angle of table	degree	±11°
<b>Wheel head</b>	Driving motor	kW	5.6
	Grinding wheel dimensions	mm	400 x 50 x 127
	Cutting speed	m/s	35

<b>Internal grinding device</b>	Grinding spindle drive	kW	1.5
	Grinding spindle diameter	mm	80
	Spindle range	rpm	20,000/30,000/40,000
<b>Workpiece spindle head</b>	Taper hole	morse taper	MK5
	Swivel angle	degree	+90° -30°
	Driving motor	kW	0.75
<b>Tailstock</b>	Spindle stroke	mm	25
	Taper hole	morse taper	MK4
<b>Power</b>	Power requirement	kW	8
<b>Dimensions</b>	Machine weight	kg	4,200 / 4,500
	Machine dimension (L x W x H)	mm	2,900 x 2,500 x 1,700



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