

ZIERSCH



THE NEW ART OF GRINDING – CYLINDRICAL GRINDING MACHINES

CYLINDRICAL GRINDING MACHINES ZR 600 / ZR 1000

Features

- 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-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



			ZR 600	ZR 1000
Capacity	Center height	mm	155	155
	Max. grinding diameter	mm	300	300
	Max. distance between centers	mm	600	1000
	Max. grinding length	mm	600	1000
	Max. workpiece weight floating	kg	45	45
	Max. workpiece weight between centers	kg	100	150
X-axis	Infeed	m/min	0,001 ~ 1,5	0,001 ~ 1,5
	Smallest feed at diameter	mm	0,0002	0,0002
Z-axis	Infeed	m/min	0,001 ~ 2	0,001 ~ 2
	Smallest feed	mm	0,0001	0,0001
	Swivel angle of table	degree	+11° ± 6°	+9° ± 5°
Wheel head	Driving motor	KW	5,6	5,6
	Grinding wheel dimensions	mm	400 x 50 x 127	400 x 50 x 127
	Cutting speed	m/s	35	35
Internal grinding device	Grinding spindle drive	kW	1,5	1,5
	Grinding spindle dimensions	mm	80	80
	Spindle range/driven by belts	rpm	Option 1: max. 28.000 Option 2: max. 42.000	Option 1: max. 28.000 Option 2: max. 42.000
Workpiece spindle head	Taper hole	morse taper	MK 5	MK 5
	Swivel angle	degree	+90° -30°	+90° -30°
	Driving motor	kW	0,75	0,75
Tailstock	Spindle stroke	mm	25	25
	Taper hole	morse taper	MK 4	MK 4
Dimensions	Machine weight	kg	6.000	6.700
	Machine dimensions (L x W x H)	mm	3.240 x 2.820 x 2.290	4.100 x 2.840 x 2.290



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