

CNC FLATBED TURNING MACHINES

Series for heavy-duty turning

WDR 1200

The WDR series was developed to meet the demands of heavy-duty turning. The overall design of the machine is very stable

HIGHLIGHTS

- Heavy part machining
- Monoblock bed machine
- Machine bed from a single mould
- Vibration damped
- Large turning diameter
- Large spindle bores
- Numerous accessories and SPECIAL EQUIPMENT
- Special sizes possible



TECHNICAL DATA AT A GLANCE

Machine type	 mm	 mm	 mm/min	 kW
WDR 1200	1.290	1.500 - 5.000	880	37

Further information on the machine series and numerous accessories can be found on our website:
<https://www.wagner-maschinen.de/en/drehen/cnc-flat-bed-lathes>

MONOBLOC CNC TURNING MACHINE

WDR 1200 x 1500 / 1200 x 2000 / 1200 x 3000 1200 x 4000 / 1200 x 5000

WDR 1200 x 1500 Order no.: 500754
WDR 1200 x 2000 Order no.: 500755
WDR 1200 x 3000 Order no.: 500756

WDR 1200 x 4000 Order no.: 500757
WDR 1200 x 5000 Order no.: 500758



ALL HIGHLIGHTS AT A GLANCE

- Sturdy cast construction
- Flatbed
- Good accessibility
- Programmable tailstock
- Tailstock travel over the entire length
- Large spindle bore
- Integrated chip conveyor
- Flat guide
- Driven tools

Further information on the machine series and numerous accessories can be found on our website:
<https://www.wagner-maschinen.de/en/drehen/cnc-flat-bed-lathes>

TECHNICAL DATA

- Centre height 650 mm
- Max. swing Ø over bed, 1,290 mm
- Max turning Ø over cross slide, 880 mm
- Centre width 1,500 / 2,000 / 3,000 / 4,000 / 5,000 mm
- Bed width 755 mm
- Spindle nose DIN 55026 A2 - 15
- Spindle bore 130 mm
- X-axis 650 mm
- Z-axis 1,350 / 1,850 / 2,850 / 3,850 / 4,850 mm
- Spindle speed 500 rpm.
- Automatic stage I 5-40 rpm
- Automatic stage II 10-80 rpm
- Automatic stage III 25-200 rpm
- Automatic stage IV 100-500 rpm
- Tailstock adjustment, with towed longitudinal slide
- Quill stroke, 300 mm
- Tailstock quill taper MK 6
- Quill diameter 160 mm
- Quill drive 1:1 or 1:4
- Spindle motor AC 37 kW
- X-axis travel 750 mm
- Z-axis driver motor AC-servo 40 Nm
- X-axis driver motor AC-servo 23 Nm
- Feed Z- and X-axis 0-4,000 mm/min
- Rapid traverse Z- and X-axis 4,000 mm/min
- Repeat accuracy X/Z-axis +/- 0.012 / 0.035 mm
- Positioning accuracy X/Z-axis +/- 0.02 / 0.045 mm
- Max. workpiece weight without fixed steady rest and tailstock 2,000 kg
- Max. workpiece weight with tailstock 6,000 kg
- Max. workpiece weight with tailstock and fixed steady rests 7,000 kg
- Weight, approx. 11,200 / 12,000 / 13,500 / 15,000 / 16,500 kg
- Dimensions (LxBxH) 5,000 / 5,500 / 6,500 / 7,500 / 8,500 x 2,650 x 2,200 mm

STANDARD EQUIPMENT

- Solid cast prism flat guide with additional support guide on bed
- 4-stage gearbox with automatic gear stage
- Constant cutting speed
- 1 electronic handwheel
- Ways induction hardened, ground and Turcite counter-coated
- Precision ball screw hardened and ground
- Quality class C3
- Main spindle NSK Leger
- Splash and chip guard with sliding door and integrated viewing window made of safety glass
- Automatic central lubrication of the guideways and the headstock
- 4-jaw face plate Ø 1,000 mm
- Complete coolant system
- Spindle oil cooler
- Tailstock with manual quill stroke 1:4 ratio MK 6 with drag device
- Machine light
- Reduction of spindle bore to morse cone
- Fixed centre point
- 1 set machine base with levelling screws
- Tool box with operating tools
- Programming and operating instructions
- Electrical equipment 400 V / 50 Hz
- Siemens 828 D control with Shopturn incl. Siemens digital AC feed motors and AC spindle motor with 39 kW at 30 min ED

SPECIAL EQUIPMENT

- Turret 4 stations tool taper
- Turret 8 stations VDI 50
- Turret 12 stations BMT 75 / altern. VDI 50
- Tool disk with 12 stations VDI 50 for turret
- 3-jaw chuck 630 mm diam.
- Fixed steady rest 70-480 mm
- Fixed steady rest 400-700 mm
- C-axis, spindle indexing with hyd. spindle brake
- Linear scales X-axis
- Linear scales Z-axis
- Tailstock with hydraulic quill / pressure gauge
- Tailstock with mobile quill 800 mm diam.
- Tailstock with motor and toothed rack 5,000 mm
- Drill bar holder Ø 120 mm, length 1,700 mm

DETAIL PICTURES



Interior



Control system

Further information on the machine series and numerous accessories can be found on our website:

<https://www.wagner-maschinen.de/en/drehen/cnc-flat-bed-lathes>

We reserve the right to make design changes in the course of technical improvements. Illustrations, dimensions and weights are not binding.