

CONVENTIONAL TURNING MACHINES

Series

WDR 205/255/205VS/255VS



HIGHLIGHTS

- Compact design with heavy base frame
- H-shaped cast iron bed
- Max. Speed up to 2.700 rpm
- Stepless speed (VS)
- Various bed lengths
- Comfortable handling
- Motor spindle brake
- Fixed stops
- Powerful tailstock with quick clamping

TECHNICAL DATA AT A GLANCE

Machine type	 mm	 mm	 mm/min	 kW
WDR 205	410/230	1.100-3.100	63/2.000	5,5 (7,5)
WDR 205VS	410/230	1.100-3.100	63/2.700	5,5 (7,5)
WDR 255	510/320	1.100-3.100	80/1.500 (105)	5,5 (7,5)
WDR 255VS	510/320	1.100-3.100	80/2.500 (105)	7,5 (10)

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

UNIVERSAL TURNING MACHINE WDR 205/255/205VS/255VS

WDR 205 x 1000/1500/2000/3000	Order no.: 601165 / 601166 / 601167 / 601168
WDR 255 x 1000/1500/2000/3000	Order no.: 601169 / 601170 / 601095 / 601171
WDR 205 VS x 1000/1500	Order no.: 601070 / 601071
WDR 255 VS x 1000/1500/2000	Order no.: 601072 / 601073 / 601074



ALL HIGHLIGHTS AT A GLANCE

- Compact design with heavy base frame
- Machine has an offset
- Powerful lathe bed with hardened and ground bed guides
- Maximum speed up to 2.000 rpm
- Spindle bore up to 102 mm (optional)
- Monobloc bed
- Fixed stops
- Powerful tailstock with quick clamping
- Hydraulic chuck (optional)

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TECHNICAL DATA WDR 205/255

- Centre height, mm 205/255
- Swing Ø over bed mm 410/510
- Swing Ø over gap, mm 660/760
- Swing Ø over cross slide, mm 230/320
- Centre width, mm 1.100-3.100
- Bed width, mm 330
- Spindle bore, mm 63/80
- Spindle nose 6/8
- Gear stages 12
- Speed range, rpm 36-2.000/36-1.500
- Longitudinal feed, mm/rev 0.04-1
- Cross feed, mm/rev 0.02-0.5
- Thread pitches:
metric, mm 0.2-14
Withworth Gg/1' 2-72
Module, mod. 0.3 - 3.5
Diametral pitch, DP 8-44
- Cross slide, mm 260
- Top slide, mm 127
- Drive power, kW 5.5 (7.5)
- Quill stroke, mm 130
- Quill diameter, mm 65/75
- Taper MK 5
- Max. Workpiece weight
80 mm spindle bore (WDR 255):
Overhung: 300 kg
Between centres: 800 kg
With steady rest: 1000 kg
- Dimensions (LxWxH),
mm 2.370-4.410x1.100x1.800
- Weight, kg 2.000-2.150/3.650/3.800

TECHNICAL DATA WDR 205VS/255VS

- Centre height, mm 205/255
- Swing Ø over bed mm 410/510
- Swing Ø over gap, mm 640/760
- Swing Ø over cross slide, mm 230/320
- Centre width, mm 1.000-1.500/1.100-3.100
- Bed width, mm 305/330
- Spindle bore, mm 54/80
- Spindle nose 6/8
- Gear stages 3
- Speed range,
rpm 25-2.700/15-2.500
- Longitudinal feed, mm/rev 0.04-1
- Cross feed, mm/rev 0.02-0.5
- Thread pitches:
metric, mm 0.2-14
Withworth Gg/1' 2-72
Module, mod. 0.3 - 3.5
Diametral pitch, DP 8-44
- Cross slide, mm 240/260
- Top slide, mm 95/127
- Drive power, kW 5.5 (7.5) / 7.5 (10)
- Quill stroke, mm 130
- Quill diameter, mm 65/75
- Taper MK 5
- Max. Workpiece weight
102 mm spindle bore (WDR 255VS):
Overhung: 400 kg
Between centres: 900 kg
With steady rest: 1100 kg
- Dimensions (LxWxH),
mm 2.400-2.900/2.370-4.410x1.100x1.800
- Weight, kg 1.700-2.000/2.000-3.600

STANDARD EQUIPMENT WDR205/255

- Hardened and ground bed guides
- Spindle stop with brake motor in accordance with CE
- Chuck guard electrically fused
- Spindle nose Camlock DIN 55029
- Chip guard on steel holder
- Rear chip guard
- Thread gauge
- Complete coolant system
- Tailstock
- LED machine light
- Central lubrication for gearbox and ways
- Complete electrical equipment 400 V / 50 Hz
- Operating tool and operating instructions
- CE standard

STANDARD EQUIPMENT WDR 205VS/255VS

- 3-stage reduction gear
- Infinitely variable speed
- Hardened and ground bed guides
- Spindle stop with brake motor in accordance with CE
- Chuck protection electrically fused
- Spindle nose Camlock DIN 55029
- Chip guard on steel holder
- Rear chip guard
- Thread gauge
- Complete coolant system
- Foot brake (option)
- Halogen machine light
- Central lubrication for gearbox and guides
- Complete electrical equipment 400 V./50 Hz.
- Operating tools and operating instructions
- CE standard

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

SPECIAL EQUIPMENT WDR 205

- 3-axis digital readout
- Rapid traverse
- Spindle motor 7.5 kW
- Fixed steady rest 10-150 mm
- Moving steady rest 10-65 mm
- Foot brake

SPECIAL EQUIPMENT WDR 255

- 3-axis digital readout
- Rapid traverse
- Fixed steady rest 20-190 mm
- Fixed steady rest 90-240 mm
- Moving steady rest 10-65 mm
- Spindle motor 7.5 kW
- Spindle bore: 102 mm
- Foot brake

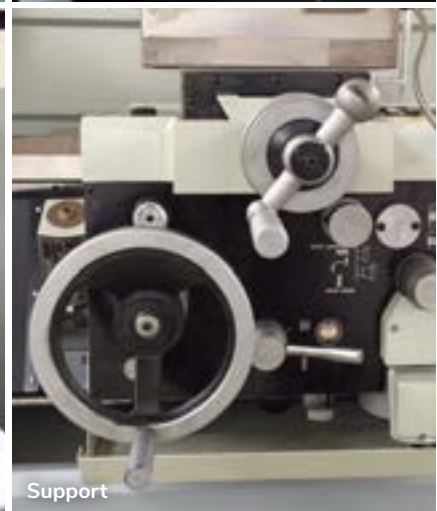
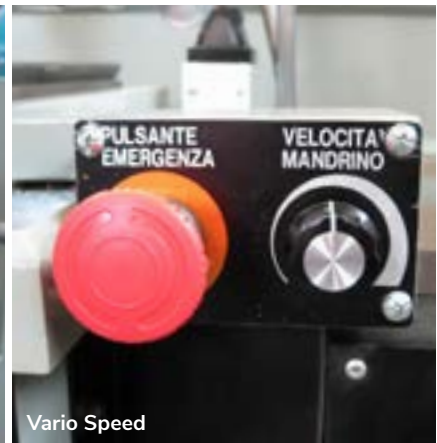
SPECIAL EQUIPMENT WDR 205VS

- 3-axis digital readout
- Rapid traverse
- Fixed steady rest 10-150 mm
- Moving steady rest 10-65 mm
- Spindle motor 7.5 kW
- Taper turning device
- Foot brake

SPECIAL EQUIPMENT WDR 255VS

- 3-axis digital readout
- Rapid traverse
- Fixed steady rest 20-190 mm
- Fixed steady rest 90-240 mm
- Moving steady rest 10-65 mm
- Spindle motor 10 kW
- Taper turning device
- Larger spindle bore 102 mm diameter
- Foot brake

DETAIL PICTURES



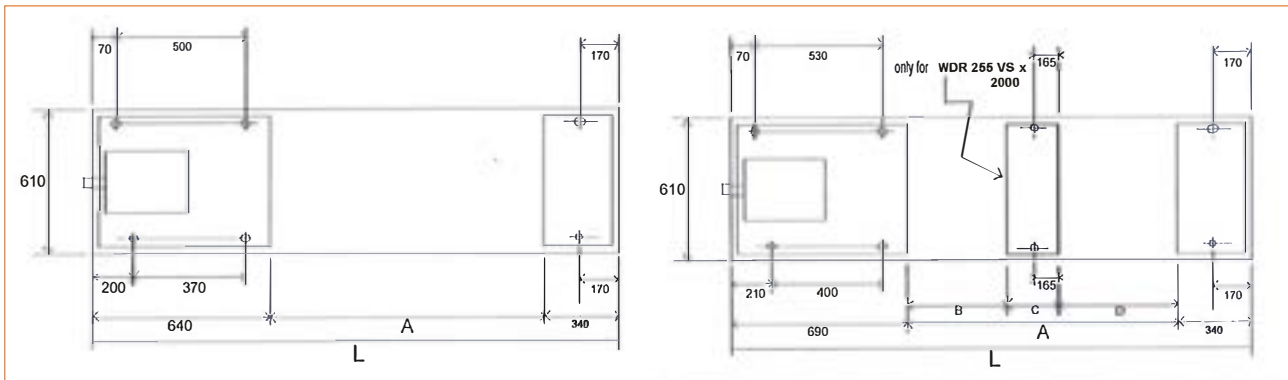
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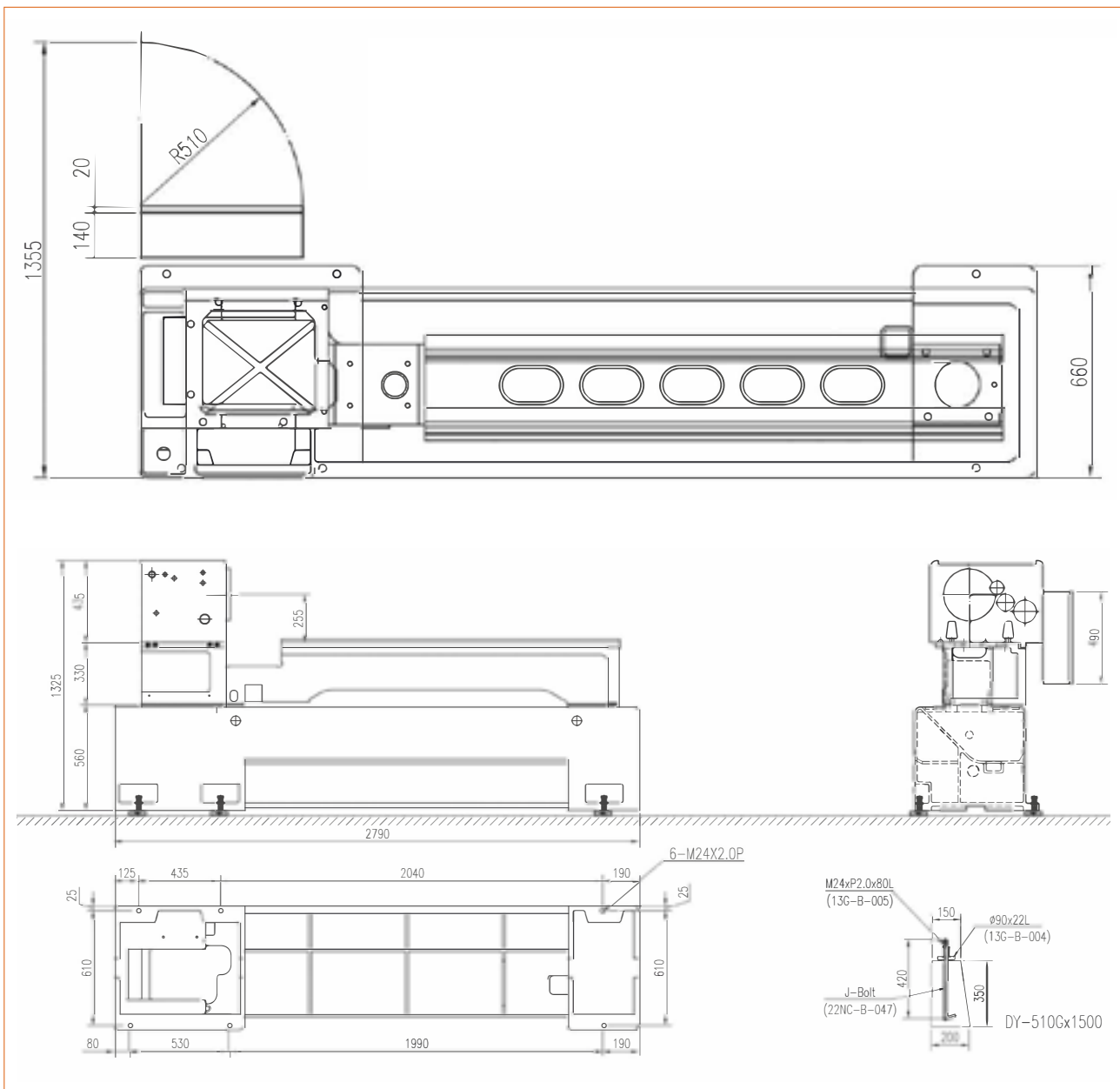
TECHNICAL PLANS

WDR 205VSx1000 A 1210 mm/L 2180 mm
WDR 205VSx1500 A 1710 mm/L 2680 mm

WDR 255VSx1000 A 1230 mm/L 2260 mm
WDR 255VSx1500 A 1730 mm/L 2760 mm



WDR 255VS Installation plan



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