

CNC INCLINED BED TURNING MACHINES

Series WDS

680/680A/680AY/ WDS 680WAY



HIGHLIGHTS

- Driven tools (version A) with Y-axis 90° (version AY)
- Spindle nose A 2-8 (optional FL 170)
- Clearance in the drawtube 65 mm (75 mm for FL 170)
- Hydraulic chuck and tailstock package
- Counter spindle
- Inclined bed 45°

TECHNICAL DATA AT A GLANCE

Machine type	 mm	 mm	 mm/min		 kW
WDS 680	680/400	1.050/974 1.600/1.500 2.350/2.300	75 (90)/4.000	12	15/18,5
WDS 680A	680/400	1.050/974 1.600/1.500 2.350/2.300	75 (90)/4.000	12	15/18,5
WDS 680AY	680/400	1.050/974 1.600/1.500 2.350/2.300	75 (90)/4.000	12	15/18,5
WDS 680WAY	680/450	1.000	75 (90)/4.000	12	18

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



CNC SLANT BED LATHE WDS 680/680A/680AY with SIEMENS 828 control system

WDS 680x1050/2350

WDS 680A x 1050/1550/2350

WDS 680AY x 1050/1550/2350

WDS 680 W AY x 1050

Order no.: 500134/500139

Order no.: 500130/500137/500140

Order no.: 500395/500138/500141

Order no.: 500142



ALL HIGHLIGHTS AT A GLANCE

- Driven tools (version A)
- Y-axis 90° (version AY)
- Spindle nose A 2-8
- Clearance in draw tube 65 mm (75 mm for FL 170)
- Hydraulic chuck and tailstock package
- Counter spindle (option)
- Inclined bed 45°

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TECHNICAL DATA WDS 680/680A/680AY / WDS 680WAY

- Max. orbital diameter 680 mm
- Max. turning diameter 400 mm
- Max. workpiece turning length: 1,500 / 2,300 mm
- Traverse paths:
X-axis: 267 mm Z-axis: 1,500 / 2,350 mm
- Feed motors:
- X-axis rapid traverse in diameter 30 m/min.
Z-axis rapid traverse 30 m/min.
- Spindle bore 90 mm
- Clearance in the drawtube 75 mm
- Spindle speed 3,500 rpm
- Drive power 22 / 26 kW
- Spindle holder DIN 55026 A 2-8
- Chuck diameter 310 mm (option 380 mm with 2500 rpm)
- Disc turret VDI 50 Base plate
- Number of tools 12
- External tool dimensions 32 x 32 mm
- Internal tools diam. 50 mm
- Drive 3.3 kW
- Speed 4,000 rpm
- Switching time of the tool turret from tool to tool 0.8
- Quill taper MK 5
- Quill stroke: 1,450 / 1,600 x 150 mm
- Dimensions (LxWxH):
5,500 x 2,150 x 2,100 mm/ 6,450 x 2,200 x 2,150 mm
- Weight net/gross: 9,000 kg / 11,000 kg

STANDARD EQUIPMENT WDS 680/680A/680AY / WDS 680WAY

- Siemens 828 D CNC control with spindle and feed motors from Siemens
- 45° inclined bed
- 12-station turret for driven tools
- Maximum speed 4,000 rpm
- **Performance in standard:**
- Drilling: diam. 20 mm
- M16 thread
- Milling diam. 20 mm, 14 mm deep, 40 mm/min
- VDI 50 disc turret holder
- Hydraulic three-jaw hollow chuck, diam. 310 mm (option 380 mm) with hard base jaws and reversible top jaws
- Tailstock mounted on flat guide
- Pneumatic drag device fixing (with hydraulic quill WDS 680 x 2,350 mm)
- Programmable tailstock over the entire length (WDS 680 x 1,600 mm)
- Electronic handwheel, switchable with cable
- Oil separator
- Coolant device
- Cooling 1.5 kW, 12 bar
- Chip conveyor and chip trolley
- Automatic centralised lubrication
- Fully protected cabin with lighting
- Operating tools & tool box
- Operating instructions
- Programming manual
- CE standard

SPECIAL EQUIPMENT WDS 680/680A/680AY / WDS 680W AY

- Spindle bore 90
- Larger motor for WDS 680 series
- Larger spindle bore 102 mm for WDS 680
- Counter spindle with hydraulic clamping device
- High pressure pump 7 bar
- Bar feeder
- Renishaw tool measuring system
- Automatic door opening
- Automatic part collecting device
- Short bar loader DH 65 L

DETAIL PICTURES



Revolver



Lining



Chip conveyor

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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.