

## Lathes

Stock number:	1350-588
Type of machinery:	Lathes
Manufacturer:	DMT KERN
Type:	CD800
Year:	2006 / 2022
Control unit:	CNC
Maker of control unit:	HEIDENHAIN MANUALplus4110V2
Country of origin:	Germany
Item location:	Hamburg
Delivery time:	Immediately
Freight basis:	Ex site



### Seller



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### techn. Details

turning diameter:	800 mm
turning length:	2000 mm
total power requirement:	kW
Distance between centers:	2000 mm
swing diameter over face slide:	530 mm
travel of cross-slide:	395 mm
Spindle speed area:	1-1800 U/min
Spindle Head :	Size 11
Spindle Hole:	106 mm
Spindle diameter in the front bearing:	150 mm
transmission ratio:	2
Digitaler AC-Motor:	40% ED kW 37
Feed area plan:	0,001-1000 mm/U
Feed range longitudinal:	0,001-2000 mm/U
Rapid traverse longitudinal (Z-axis):	10 m/min
Rapid traverse cross (X-axis):	5 m/min
thread pitch:	0,01- 999,9 mm
diameter of quill:	115 mm
quill travel:	225 mm
taper in tailstock-quill:	MK6
power:	400/ 50 V / Hz.
Dimensins of the machine approx. (LxWxH):	4700 x 2300 x 2200 mm
Weight of the machine approx.:	7100 kg

### Description

Operating hours: 16,700 h (read in July 2022)

General overhaul in 2022:

## Lathes

### GEOMETRY

- Disassembly and reassembly of the lathe
- Cleaning of the components/groups
- Guideway grinding of the machine bed on all sides in geometry according to manufacturer's specifications

### BED SUPPORT

- Resurfacing of the bed support with Turcite coating
- Scraping of the bed support on the machine bed
- Adjustment of the rear handles and wedge bars by scraping

### PLANSUPPORT

- Resurfacing of the plan support with Turcite coating
- Grinding of the plan support guide
- Scraping of the plan support in accordance with the underpass
- renewal of the guide wedge

### BALL SCREWS

- Assembly of new ball screws (X and Z axis) and their complete bearings

### TOOLING SYSTEM

- Disassembly and reassembly of the tool turret
- Maintenance of the tool turret (cleaning, sealing and testing)

### TAILSTOCK GEOMETRY

- Scraping of the tailstock on the machine bed in geometry
- Adjustment of center height to spindle center (main spindle gear)

### TAILSTOCK MECHANICS

- disassembly and reassembly of the tailstock
- check and maintenance of quill (guide)
- Checking and maintenance of the clamping mechanism

### MAIN SPINDLE GEARBOX MECHANICS

- Disassembly and reassembly of the main spindle gear incl. cleaning and inspection
- re-bearing of the gear shaft bearings and main spindle bearings
- Adjustment of the gear shifting
- Renewal of drive connection motor and input shaft (V-belt)
- Overhaul of the main spindle motor electrically and mechanically

### GENERAL

- Replacing the wipers completely
- Replacing the oil lubrication nipples completely
- in case of automatic lubrication, the lubrication system is completely checked and renewed if necessary

### ACCESSORIES (new)

- Bison three-jaw chuck (face spiral), steel DIN 55027 with hard reversible jaws
- Fixed steady rest with roller jaws
- Guiding range  $\varnothing$  30 - 300 mm

### ELECTRIC

- Replacing of defective electric cables, protection cables and strain reliefs (especially in the moving part)
- Cleaning of the electric switchboard
- Replacing the relays, contactors and fuses
- replacement of the right industrial light

### PAINTING AND SHEET METAL ENCLOSURES

- touching up of the painting
- Alignment of sliding doors, check electromechanical tumblers

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## Lathes

### SPINDLE BOX

- Powerful main motor with high drive power and low bend speed for plenty of power even in the lower speed range
- Large spindle bore
- Oil circulation lubrication with separate lubrication unit for the main spindle bearings
- Two-stage gearbox in the headstock, manually or optionally automatically switched
- Coolant collection tray at the rear of the main spindle with coolant return into the chip tray

### MACHINE BED

- Guides hardened and precision ground

### BED SLIDES

- Bed slide guides plastic coated
- Guides and taper bars precision-scraped for high continuous precision, finest oil pockets
- Central lubrication with metering piston distributors on all guideways and the preloaded ball screws

### PLANSCHLITTEN

- Guides made of GG and finely scraped
- Long, continuous, scraped wedge bar
- Aluminium link apron as cover at the front of the cross slide

### AXIS DRIVES

- Digital drive motors with integrated absolute measuring systems mean that no reference point travel is necessary after switching on the machine

### RIDING STOCK

- with lateral adjustment
- Roller guide for easy sliding of the tailstock on the bed

### MACHINE COVER

- Two (three for larger centre widths) separate safety doors for optimum covering of the working area and at the same time very good accessibility
- Left safety door with function as chuck guard
- Safety doors pulled down low, completely covering the doors behind the lower guide shaft support
- Safety screens in sandwich construction with polycarbonate inlay reliably protect the operator from ejected parts
- Additional panelling (machine closed on the right) e.g. as complete panelling when machining non-ferrous metals, higher coolant pressures or for better efficiency in conjunction with a workspace extraction system
- Movable safety doors

### OPERATING UNIT

- Combination operating unit with ergonomically optimally arranged machine operating panel and control (utility model protection 20 2004 009 351.0) 2-fold guided in ball bushings
- very good handling and good accessibility to the working area when changing workpieces and tools as well as for special machining technologies

### ACCURACY

- high accuracy due to high-quality components such as precision ball screws and measuring systems

The machine is offered with a 12-month warranty from HR Werkzeugmaschinen GmbH.