

**Leading and feed spindle lathes, characterised by excellent flexibility, precision and economy.**  
With DPA 21 digital position display and quick change tool holder.

**Facts that impress in terms of quality, performance and price**

- ▶ Tempered and polished z-axis guideway
- ▶ Spindle collet Camlock DIN ISO 702-2 no. 8
- ▶ Precision slide
- ▶ Hand wheels with adjustable fine scaling 0.04 / 0.02 mm
- ▶ All guides adjustable using cleats
- ▶ Gears and shafts running in oil bath
- ▶ Adjustment range top slide  $\pm 90^\circ$
- ▶ Guaranteed concentricity of spindle nose better than 0.015 mm
- ▶ Main spindle runs in oil bath
- ▶ Gearwheels smooth running, tempered and ground borne on 2 re-adjustable precision taper rollers
- ▶ Clear-cut selector lever for switching the feed speeds
- ▶ Closed design of the quick shift feed gear
- ▶ Gears and shafts tempered and ground, running in oil bath on precision bearings
- ▶ Hand wheels decoupled and approved in line with EN 23125
- ▶ Two-channel CW/CCW switch approved in line with EN 23125
- ▶ Switch with lifecycle calculation, approved in line with EN ISO 13849
- ▶ Right-handed/left-handed rotation switchable on bed slide, switchable via switching spindle
- ▶ Central lubrication in bed slide
- ▶ Coolant system featuring separate coolant tank, fill level display and oil trap; easy and complete draining and cleaning as per DIN
- ▶ Leading spindle cover
- ▶ Emergency stop button, motor circuit breaker, lockable main switch
- ▶ Emergency stop device with foot pedal
- ▶ Safety hand wheels with release function in the X axis
- ▶ Tailstock adjustable  $\pm 10$  mm for turning spheres
- ▶ Tailstock spindle sleeve and hand wheel with adjustable fine scaling
- ▶ Tailstock crank for position change
- ▶ Tailstock spindle sleeve with two adjustable transmission ratios 1/4 or 1/1 rev
- ▶ LED machine lamp
- ▶ Fast feed - Pushbutton and selector lever for enabling rapid motion in transverse and longitudinal directions for an even more rational work approach. Does not switch off the entire machine when running into the limit switch
- ▶ Safety limit switch with positively opening contacts
- ▶ Electrical motor brake with fast emergency stop – in normal operations, fast stop without post-run
- ▶ Electrical system with Siemens components
- ▶ Energy chain for material-friendly cable and hose guiding
- ▶ Quick change tool holder SWH 9-D
- ▶ 1 tool holder 41 x 180 type D for square chisels 32 mm

**Digital position display DPA 21**

- › Clear reduction of manufacturing times
- › Glass scales

**Control Cabinet**

- › 24 Volt DC Power Supply
- › All contactors und relays by Siemens or Schneider



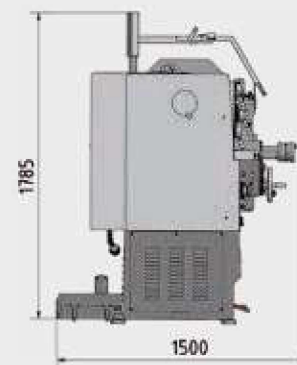
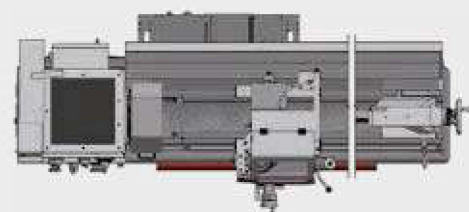
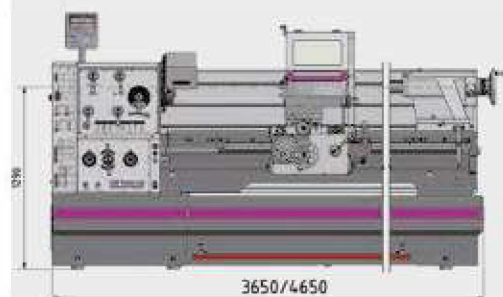
Fig.: TH 6630D

## Technical specifications, accessories and dimensions

Model	TH 6620D	TH 6630D
Article no.	3462210	3462220
Technical specifications		
Electrical connection	400 V / 3 Ph ~50 Hz	
Total rated value	10 kW	
Coolant pump motor	150 W	
Spindle		
Drive motor	9 kW	
Spindle taper	Ø 113 mm (taper 1:20)	
Spindle seat	Camlock DIN ISO 702-2 No. 8	
Spindle bore, bar passage diameter	Ø 105 mm	
Quick change tool holder	SWH 9-D	
Work area		
Centre height	330 mm	
Centre width	2 050 mm	3 050 mm
Swing Ø over machine bed	660 mm	
Swing in the bed bridge	900 mm	
Turning length in bed bridge	250 mm	
Swing over cross slide	440 mm	
Bed width	400 mm	
Load bearing capacity	1.4 t/m	1.4 t/m
Speed range		
Spindle speed	25 - 1 600 rpm	
Number of speeds	16 speeds	
Travel		
Top slide travel	230 mm	
Cross slide travel	368 mm	
Feeds and pitches		
Feed motor output	550 W	
Rapid traverse	3.8 m /min. max. 5 min. (30 min. break)	
Longitudinal feed within the range	0.044 - 1.48 mm/rev (25 feeds)	
Cross feed within	0.022 - 0.74 mm/rev (25 feeds)	
Pitch - metric in range	0.45 - 120 mm/rev (54 pitches)	
Pitch - inch in range	80 - 7/16 turns/inch (60 pitches)	
Diametral pitch in range	7/8 - 160 turns/π (42 pitch)	
Modular thread in range	0.25 - 60 mm x π (46 thread)	
Tailstock		
Tailstock seat	MT 5	
Tailstock quill diameter/stroke	90 mm/235 mm	
Dimensions		
Length	3 650 mm	4 650 mm
width x height	1 500 x 1 785 mm	
Weight	3,345 kg	3 730 kg

Lathe chuck	Art no.
<b>OPTIMUM three-jaw lathe chuck</b> Ø 315 mm no. 8, centric	3442768
<b>OPTIMUM Four-jaw lathe chuck</b> Ø 315 mm no. 8, centric	3442856
<b>OPTIMUM Four-jaw lathe chuck</b> Ø 315 mm no. 8, individual	3442888
<b>BISON three-jaw lathe chuck</b> Ø 315 mm no. 8, centric	3450335
<b>BISON Four-jaw lathe chuck</b> Ø 315 mm no. 8, centric	3450385
Accessories	Art no.
<b>Travelling centre</b> MT 5	3440705
<b>BISON co-travelling centre</b> MT 5 (2-row SKF angular contact bearings)	3451005
<b>Lathe tool set</b> HM 25 mm, 5-part (see page 192)	3441672
Lathe tool set HM 25 mm, 5-part, extension kit (see page 192)	3441623
<b>Vibration-damping machine base</b> SE 3 (6 pcs. required)	3381018
<b>Vibration damper</b> SE 85 (6 pcs. needed)	3352982
› More accessories for lathes from page 184	

### Dimensions



**Remember to order  
a lathe chuck**

### Scope of supply

- › Steady rest passageway max. Ø 150 mm
- › Follow rest passageway max. Ø 130 mm
- › LED machine lamp
- › Reduction sleeve Ø 113 mm / MT 5
- › One fixed and one alloyed centre MT 5
- › Quick change tool holder 9-D
- › Tool holder 41 x 180 type D for square chisels 32 mm
- › Replaceable gear set
- › Quality oil included
- › Operating tool