

Heavy leading and feed spindle lathes, characterised by excellent flexibility, precision and economy. With DPA 21 digital position display and quick change tool holder. TH 5620V featuring Siemens inverter Vario drive

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
- ▶ Coolant system featuring separate coolant tank, fill level display and oil trap; easy and complete draining and cleaning as per DIN
- ▶ Guaranteed concentricity of spindle nose better than 0.015 mm
- ▶ Clear-cut selector lever for switching the feed speeds
- ▶ Emergency stop mushroom button, motor circuit breaker, lockable main switch
- ▶ Clockwise/anti-clockwise rotation switchable on bed slide, switchable via switching spindle
- ▶ Central lubrication in bed slide
- ▶ Mechanical longitudinal feed switch-off of bed slide with four configurable eccentrics
- ▶ Leading spindle cover
- ▶ Safety hand wheels with release function in the X and Z axis
- ▶ Emergency stop device with foot pedal
- ▶ Electrical system with Siemens components
- ▶ Energy chain for material-friendly cable and hose guiding

- ▶ Scale on thread gauge adjustable
- ▶ Quick change tool holder SWH 7-C
- ▶ 1 tool holder 32 x 150 type D for square chisels

- ▶ Digital position display DPA 21
 - › Rev counter
 - › Clear reduction of manufacturing times
 - › Greater operation accuracy
 - › Reduction of error quota
 - › Glass scales

TH 5620V:

- Two speeds
- ▶ Spindle bore/bar passage Ø 105 mm
- ▶ Siemens Sinamics frequency inverter / Safety Integrated
- ▶ Speed monitoring in line with Machinery Directive
- ▶ Other lengths on request

Main spindle

- Tempered and ground
- Running in oil bath
- Borne on 2 adjustable precision taper roller bearings
- Gearwheels easy action, tempered and ground

Quick shift feed gear

- Closed design
- Gearwheels and shafts tempered and ground
- Running in oil bath on precision bearings

Switch

- With lifecycle calculation
- tested in accordance with EN ISO 13849

Hand wheels

- Decoupled
- tested in accordance with EN 23125

Chip guard

- Generously dimensioned
- Integrated LED machine lamp

Tailstock


- Adjustable ± 15 mm for turning balls
- Tailstock spindle sleeve and handwheel with adjustable fine scaling 0.025 mm

Clockwise/anticlockwise switch

- Two channel
- tested in accordance with EN 23125

Control cabinet

- 24 Volt DC adapter
- All contactors and relays by Siemens or Schneider -



TH 5620V: Inverter SINAMICS G120D



More information: „Siemens frequency inverter SINAMICS G 120D“ auf Seite 144



Slide

- Precise workmanship
- Hand wheels with adjustable fine scaling 0.04 / 0.02 mm
- All guides adjustable using wedge rails
- Gears and shafts running in oil bath
- Adjustment range top slide ± 90°

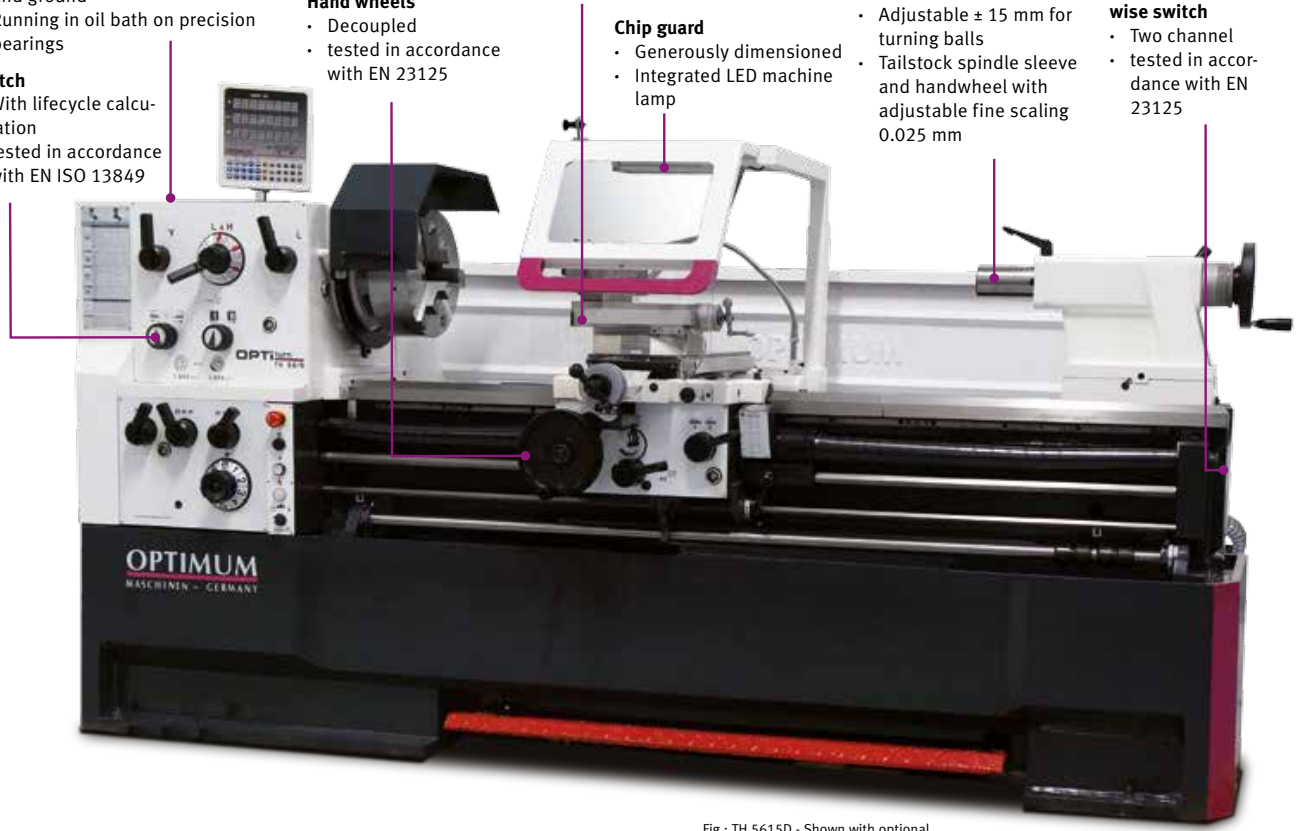
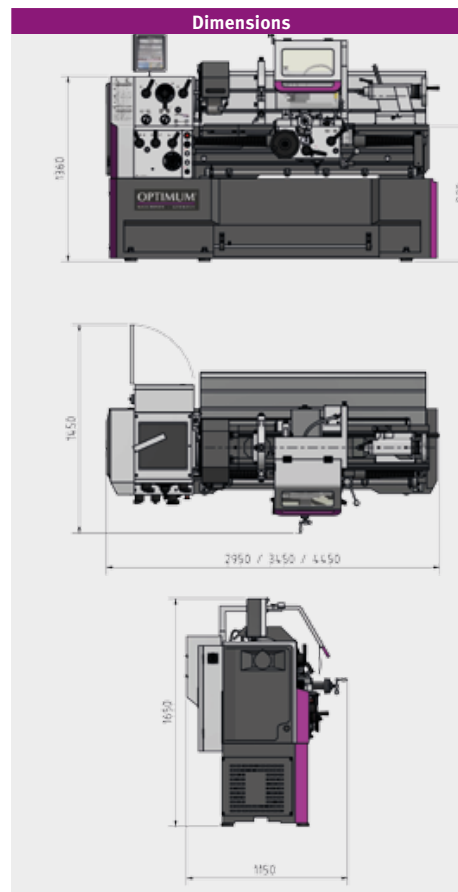


Fig.: TH 5615D - Shown with optional lathe chuck

Technical specifications, accessories and dimensions

Model	TH 5615D	
Article no.	3462160	
Model	TH 5620D	TH 5620V
Article no.	3462170	3462175
Model	TH 5630D	
Article no.	3462180	

Technical specifications		
Electrical connection	400 V / 3 Ph ~50 Hz	
Total connected load	8.5 kW	
Spindle		
Drive motor	7.5 kW	
Spindle taper	MT 7	Ø 113 mm (taper 1:20)
Spindle holder	Camlock DIN ISO 702-2 No. 8	
Spindle bore, bar passage diameter	Ø 80 mm	Ø 105 mm
Work area		
Max. height	280 mm	
Max. width TH 5615D	1,420 mm	
Max. width TH 5620D / TH 5620V	1,910 mm	
Max. width TH 5630D	2,910 mm	
Orbit Ø above machine bed	560 mm ⁽¹⁾	
Orbit Ø above cross slide	355 mm	
Orbit Ø in the bed bridge	790 mm	
Turning length in bed bridge	170 mm	
Bed width	350 mm	
Speed range		
Spindle speed	25 - 1,600 rpm	
Number of gears	12 gears	2 speeds; elec. control
Strokes		
Top slide stroke	130 mm	
Cross slide stroke	316 mm	
Feeds and pitches		
Longitudinal feed within the range	0.059 - 1.646 mm/U (35)	0.031 - 1.7 mm/U (42)
Cross feed within	0.020 - 0.573 mm/U (35)	0.014 - 0.784 mm/U (42)
Pitch - metric in range	0.2 - 14 mm/U (47)	0.1 - 14 mm/U (47)
Pitch - inch in range	112 - 2 turns/inch (60 pitches)	
Diametral pitch in range	4 - 112 (50 turns)	
Modular thread in range	0.1 - 7 mm/rev (34 thread)	
Tailstock		
Tailstock chuck	MT 5	
Spindle sleeve diameter / stroke	Ø 75 mm / 180 mm	
Dimensions		
Length	2,840 / 3,340 / 4,340 mm	
width x height	1,150 x 1,460 mm	
Net weight	2,300 kg / 2,720 kg / 3,000 kg	2,720 kg
Transport packaging flat rate**	TPFR 5 up to TH 5620D TPFR 6 TH 5630D	



**Remember to order
lathe chuck**

Scope of Delivery	
• Fixed steady passageway max. Ø 165 mm	
• Travelling steady passageway max. Ø 95 mm	
• LED machine lamp	
• TH 5615D-TH 5630D: Reduction sleeve MT 7/MT 5	
• TH 5620V: Reduction sleeve Ø 113 mm / MT 5	
• Fixed centre MT 5	
• Fixed and travelling centre MT 5	
• Quick change tool holder 7-C	
• Tool holder 32 x 150 type D for square chisels	
• Thread gauge	
• Position stop with granular adjustment	
• Machine initially filled with premium grade oil	
• Set of interchangeable gears	
• Operating tool	

Lathe chuck	Art no.
▶ OPTIMUM lathe chucks	
Three-jaw lathe chuck Ø 315 mm no. 8, centric	3442768
Four-jaw lathe chuck Ø 315 mm no. 8, centric	3442856
Four-jaw lathe chuck Ø 315 mm no. 8, individual	3442888
▶ BISON lathe chucks	
Three-jaw lathe chuck Ø 315 mm no. 8, centric	3450335
Four-jaw lathe chuck Ø 315 mm no. 8, centric	3450385

Accessories	Art no.
Clamping disc Ø 450 mm no. 8	3442982
Travelling centre MT 5	3440705
BISON co-travelling centre MT 5	3451005
Spare tool holder 40 x 160 type H for round	3384326
Spare tool holder 32 x 150 Type D square	3384308
Lathe tool set HM 32 mm, 5-part	3441674
Vibration damping machine base SE3 (6 pcs.)	3381018

** PTO for an explanation of the packaging surcharges; details of TPFR plus VAT.
(1) Explanation see „General notes on operating our machines“ on page 211