

Fully equipped lathes for mechanics. Impressive precision and performance TH 4010D with digital position display DPA 21, TH 4010V additionally with 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. 5
- ▶ Guaranteed concentricity of spindle nose better than 0.015 mm
- ▶ Gears and shafts tempered and ground, running in oil bath on precision bearings
- ▶ Motor circuit breaker (TH 4010 / TH 4010D)
- ▶ DC 24 Volt electrical system
- ▶ Lockable main switch
- ▶ Clockwise/anti-clockwise rotation switchable on bed slide
- ▶ Safety hand wheels with release function in the X and Z axis
- ▶ Emergency stop device with foot pedal
- ▶ Coolant system
- ▶ LED machine lamp in chip guard

TH 4010D / TH 4010V:

Digital position display DPA21

- › User-friendly membrane keyboard, splash water protected, sealed and dazzle free
- › Greater operation accuracy
- › Reduction of error quota
- › X, Z0, Z axis each with 8-digit display
- › Glass scales

TH 4010V:

Siemens Sinamics frequency inverter / Safety Integrated

- ▶ Quick change tool holder 3-E
- ▶ Tool holder 20 x 100 type D for square chisels

Control cabinet

- 24 Volt DC adapter
- All contactors und relays by Siemens or Schneider - TH 4010V by Eaton



TH 4010D / TH 4010V

- Digital position display DPA 21

Slide

- Precise workmanship
- Hand wheels with adjustable fine scaling 0.04 / 0.02 mm
- All guides adjustable using wedge rails
- Adjustment range top slide ± 90°

Hand wheels

- Decoupled
- tested in accordance with EN 23125

TH 4010V:

Inverter SINAMICS G120D



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



Tailstock

- Adjustable ±10 mm for turning balls
- Tailstock spindle sleeve and hand-wheel with adjustable fine scaling 0.025 mm

Prism bed

- With pronounced ribbing
- Grey cast iron
- Induction tempered and precision-ground

Clockwise/anticlockwise switch

- Two channel
- tested in accordance with EN 23125

Main spindle

- Running in oil bath
- Gearwheels easy action, tempered and ground

Switch

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

Chip tray

- Pulls out
- Guide rails

Machine chassis

- With 3 covers (no compartments)

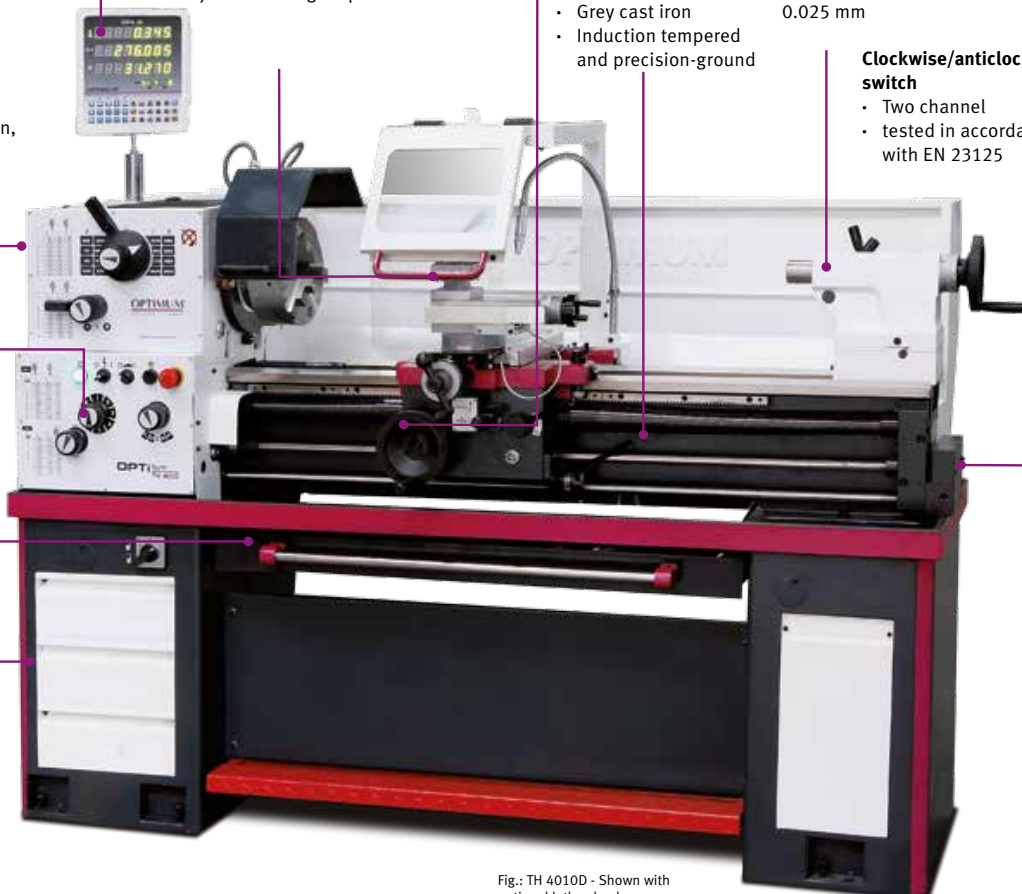
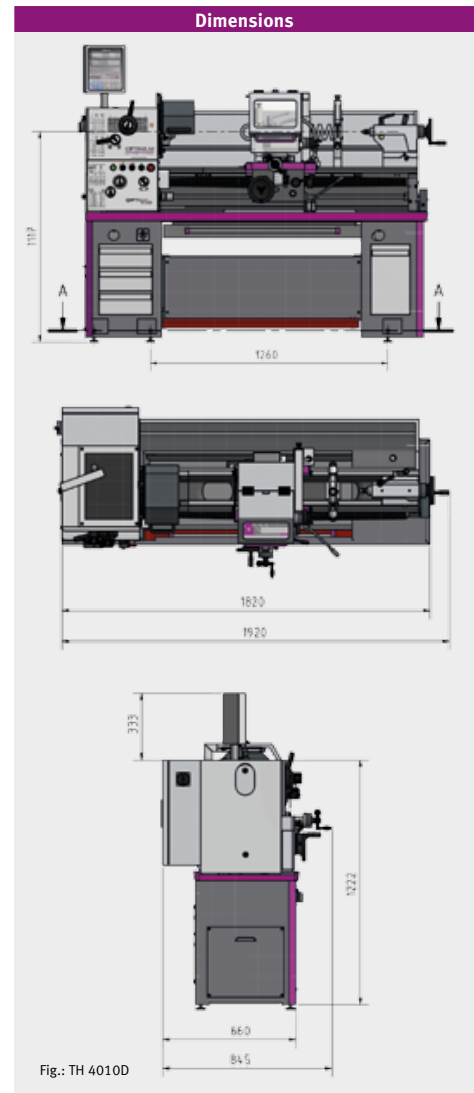


Fig.: TH 4010D - Shown with optional lathe chuck

Technical specifications, accessories and dimensions

Model	TH 4010	TH 4010D	TH 4010V
article no.	3402070	3402080	3402085
Technical specifications			
Electrical connection	400 V / 3 Ph ~50 Hz		
Spindle			
Drive motor	1.5/2.4 kW	4 kW	
Spindle taper	MT 6		
Spindle holder	Camlock DIN ISO 702-2 No. 5		
Spindle bore, bar passage diameter	Ø 52 mm		
Four x tool holder mounting height	max. 16 mm		
Technical specifications			
Max. height	205 mm		
Max. width	1,000 mm		
Orbit Ø above machine bed	410 mm ⁽¹⁾		
Orbit Ø in the bed bridge	540 mm		
Turning length in bed bridge	165 mm		
Bed width	206 mm		
Speed range			
Spindle speed	45 - 1,800 rpm	30 - 3,000 rpm	
speeds	16 speeds	2 speeds; elec. control	
Strokes			
Top slide stroke	100 mm		
Cross slide stroke	195 mm		
Feeds and pitches			
Longitudinal feed within the range	0.043 - 0.653 mm/rev (48 feeds)		
Cross feed within	0.015 - 0.206 mm/rev (48 feeds)		
Pitch - metric in range	0.4 - 7 mm/rev (42 pitches)		
Pitch - inch in range	70 - 4 turns/inch (42 pitches)		
Tailstock			
Tailstock chuck	MT 3		
Tailstock spindle sleeve diameter/stroke	Ø 45 mm / 130 mm		
Dimensions			
Length x width x height	1,920 x 740 x 1,222 / 1,555 mm		
Net weight	775 kg	780 kg	
Transport packaging flat rate**	TPFR 2		



Remember to order a lathe chuck

Accessories	Art no.
► lathe chuck	
OPTIMUM Four-jaw lathe chuck Ø 200 mm no. 5, centric	3442845
OPTIMUM Four-jaw lathe chuck Ø 200 mm no. 5, individual	3442880
BISON three-jaw lathe chuck Ø 200 mm no. 5, centric	3450315
BISON Four-jaw lathe chuck Ø 200 mm no. 5, centric	3450365
► Tool holders and lathe tools	
Quick change tool holder SWH 3-E	3384303
Factory assembly SWH 3-E	9000400
Spare tool holder 20 x 100 type D for square chisels	3384304
Spare tool holder 30 x 100 type H for round chisels	3384322
Lathe tool set 16 mm, 11-part	3441604
Lathe tool set 16 mm, 5-part	3441668
Lathe tool set 16 mm, 5-part "Made in Germany"	3441216
Lathe tool set 16 mm, 5-part	3441610
Information on „Lathe tool set“ on page 152	
► Accessories	
Collet chuck 5C	3441555
Spring collet set 3 - 25 mm, 5C, 17-part	3441509
Vibration-damping machine base SE 2 (6 pcs. required)	3381016
► More „Accessories Turning“ on page 148	

Scope of Delivery
• Fixed steady passageway Ø 5 - 85 mm
• Travelling steady passageway Ø 5 - 65 mm
• LED machine lamp
• Reduction sleeve MT 6 - MT 3
• Fixed centres MT 3
• Fixed centre MT 3, alloyed
• Travelling centre MT 3
• Position stop with granular adjustment
• Set of interchangeable gears
• Machine initially filled with premium grade oil
• Operating tool
TH 4010 / TH 4010D
• Quadruplicate tool holder 16 mm
TH 4010V
• Quick change tool holder 3-E
• Tool holder 20 x 100 type D for square chisels

** 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