

## 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
- ▶ Precision slide
- ▶ Hand wheels with adjustable fine scaling 0.04 / 0.02 mm
- ▶ Quadruple tool holder
- ▶ All guides adjustable using cleats
- ▶ 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
- ▶ 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
- ▶ DC 24 Volt electrical system
- ▶ Lockable main switch
- ▶ Right-handed/left-handed rotation switchable on bed slide
- ▶ Safety hand wheels with release function in the X and Z axis
- ▶ Tailstock adjustable  $\pm 10$  mm for turning spheres
- ▶ Tailstock spindle sleeve and handwheel with adjustable fine scaling 0.025 mm

- ▶ Fast, easy adjustment without tools thanks to clamping lever
- ▶ Grey cast iron prism bed with strong ribbing, induction tempered and precision ground
- ▶ Pull-out chip drawer with guide rails
- ▶ Emergency stop device with foot pedal
- ▶ Machine base with 3 covers (no compartments)
- ▶ Coolant system
- ▶ LED machine lamp in chip guard

### TH 4010 / TH 4010D:

- ▶ Motor circuit switch

### TH 4010D / TH 4010V:

#### ▶ Digital position display DPA21

- › User-friendly membrane keyboard, splash water protected, sealed and dazzle free
- › 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 Power Supply
- › All contactors und relays by Siemens or Schneider
- TH 4010V by Eaton



### TH 4010V: Inverter SINAMICS G120D



More information: „SIEMENS SINAMICS G 120D Frequency inverters“ on page 136



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

<b>Technical specifications</b>	
Electrical connection	400 V / 3 Ph ~50 Hz
<b>Spindle</b>	
Drive motor	1.5/2.4 kW      4 kW
Spindle taper	MT 6
Spindle seat	Camlock DIN ISO 702-2 No. 5
Spindle bore, bar passage diameter	Ø 52 mm
Quadruple tool holder mounting height	max. 16 mm
<b>Technical specifications</b>	
Centre height	205 mm
Centre width	1 000 mm
Swing Ø over machine bed	410 mm
Swing in the bed bridge	540 mm
Turning length in bed bridge	165 mm
Bed width	206 mm
<b>Speed range</b>	
Spindle speed	45 - 1 800 rpm      30 - 3 000 rpm
speeds	16 speeds      2 speeds; elec. control
<b>Travel</b>	
Top slide travel	100 mm
Cross slide travel	195 mm
<b>Feeds and pitches</b>	
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)
<b>Tailstock</b>	
Tailstock seat	MT 3
Tailstock- sleeve diameter/ sleeve travel	Ø 45 mm / 130 mm
<b>Dimensions</b>	
Length x width x height	1 920 x 740 x 1 222 / 1 555 mm
Net weight	775 kg      780 kg

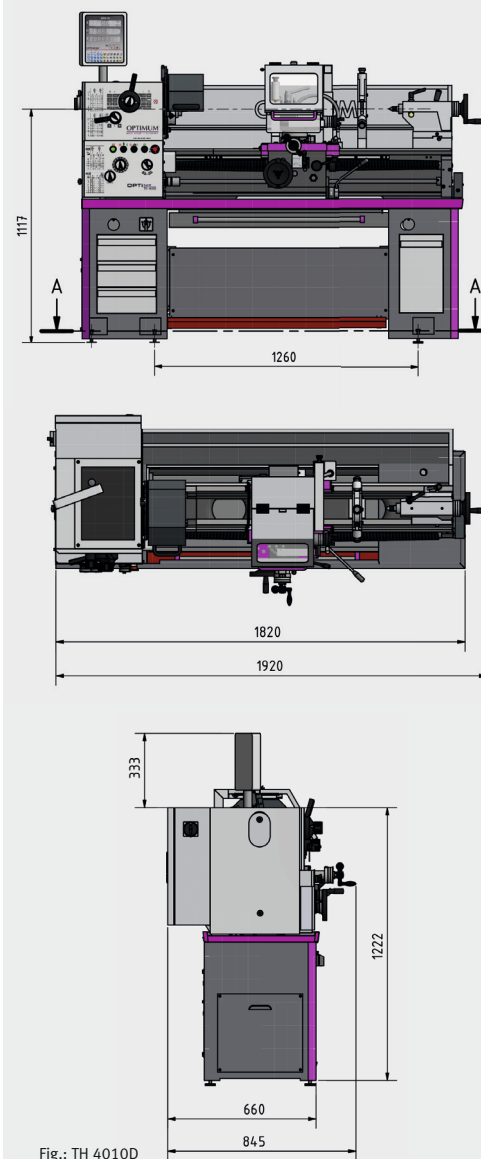
Lathe chuck	Art no.
<b>OPTIMUM Four-jaw lathe chuck</b> Ø 200 mm no. 5, centric	3442845
<b>OPTIMUM Four-jaw lathe chuck</b> Ø 200 mm no. 5, individual	3442880
<b>BISON three-jaw lathe chuck</b> Ø 200 mm no. 5, centric	3450315
<b>BISON Four-jaw lathe chuck</b> Ø 200 mm no. 5, centric	3450365
› Information about lathe chucks from page 180	

Accessories	Art no.
<b>Quick change tool holder</b> SWH 3-E	3384303
<b>Factory assembly</b> SWH 3-E	9000400
<b>Spare tool holder</b> 20 x 100 type D for square chisels	3384304
<b>Spare tool holder</b> 30 x 100 type H for round chisels	3384322
<b>Lathe tool set</b> 16 mm, 11-part (see page 186)	3441604
<b>Lathe tool set</b> 16 mm, 5-part (see page 186)	3441668
<b>Lathe tool set</b> 16 mm, 5-part "Made in Germany" (see page 186)	3441216
<b>Lathe tool set</b> 16 mm, 5-part (see page 186)	3441610
<b>Collet chuck</b> 5C	3441555
<b>Collet kit</b> 3 - 25 mm, 5C, 17-part	3441509
<b>Vibration-damping machine base</b> SE 2 (6 pcs. required)	3381016
› More accessories for lathes from page 184	

\*Important information on transport surcharges and „General notes on operating our machines“ on page 249

\*\*The lathe (frequency converter) complies with the DIN EN 55011 standard: class C2 - Note for operation with frequency converter on page 249

### Dimensions



**Remember to order  
a lathe chuck**

### Scope of supply

- › Steady rest passageway Ø 5 - 85 mm
  - › Follow rest 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
  - › Change gear kit
  - › 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