

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 ± 90°
- ▶ 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 ± 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**

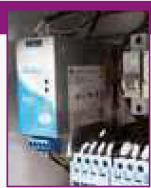
- › User-friendly membrane keyboard, splash water protected, sealed and dazzle free
- › Glass scales

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: Siemens Inverter SINAMICS G120D

made in EU



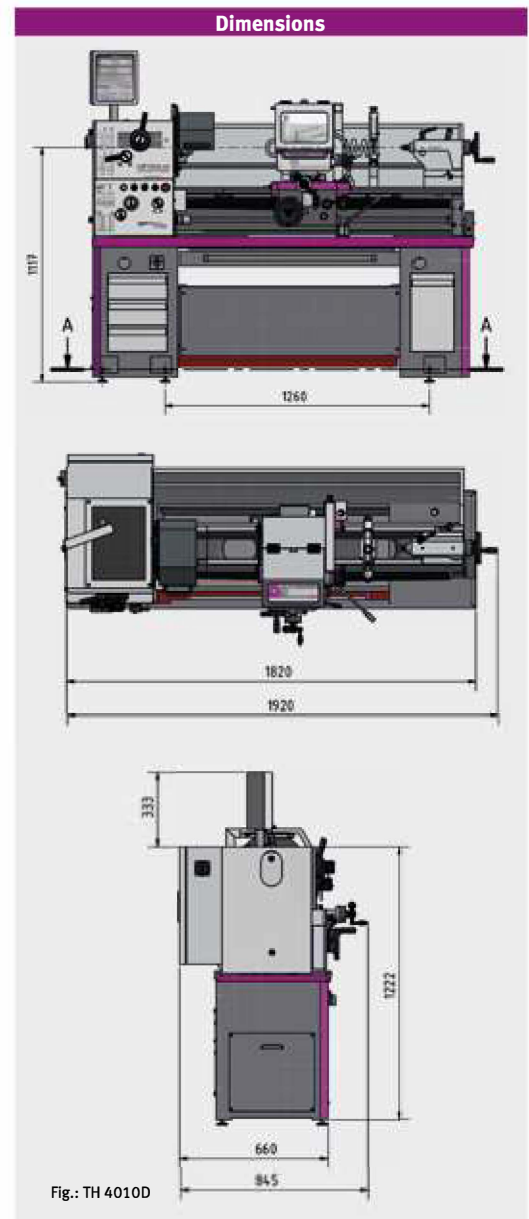
More information: „SIEMENS SINAMICS G 120D Frequency inverters“ on page 140



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 seat | Camlock DIN ISO 702-2 No. 5 | | |
| Spindle bore, bar passage diameter | Ø 52 mm | | |
| Quadruple tool holder mounting height | max. 16 mm | | |
| Technical specifications | | | |
| 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 | | |
| Speed range | | | |
| Spindle speed | 45 - 1 800 rpm | 30 - 3 000 rpm | |
| speeds | 16 speeds | 2 speeds; elec. control | |
| Travel | | | |
| Top slide travel | 100 mm | | |
| Cross slide travel | 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 seat | MT 3 | | |
| Tailstock- sleeve diameter/ sleeve travel | 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 | |



| Lathe chuck | Art no. |
|----------------------------------------------------------------|---------|
| 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 |
| › Information about lathe chucks from page 184 | |

| Accessories | Art no. |
|----------------------------------------------------------------------|---------|
| 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 (see page 190) | 3441604 |
| Lathe tool set 16 mm, 5-part (see page 190) | 3441668 |
| Lathe tool set 16 mm, 5-part "Made in Germany" (see page 190) | 3441216 |
| Lathe tool set 16 mm, 5-part (see page 190) | 3441610 |
| Collet chuck 5C | 3441555 |
| Collet kit 3 - 25 mm, 5C, 17-part | 3441509 |
| Vibration-damping machine base SE 2 (6 pcs. required) | 3381016 |
| › More accessories for lathes from page 188 | |

**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

*Important information on transport surcharges and „General notes on operating our machines“ on page 253

**The lathe (frequency converter) complies with the DIN EN 55011 standard: class C2 - Note for operation with frequency converter on page 253

**Feed and lead spindle lathe impresses with rugged design and simple handling.
TM 4010D with DPA 21 digital position display**

Facts that impress in terms of quality, performance and price

- ▶ Tempered and polished z-axis guideways
- ▶ 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
- ▶ Tailstock with tempered and ground spindle sleeve
- ▶ DC 24 Volt electrical system
- ▶ All pitch gears made of steel, hardened and polished, shafts on needle bearings, all components lubricated in an oil bath
- ▶ Right-handed/left-handed rotation switchable on bed slide
- ▶ Safety hand wheels with release function in the X and Z axis
- ▶ Emergency stop device
- ▶ Perfectly concentric main spindle guarantees high load capacity thanks to use of precision taper roller bearings
- ▶ Chip compartment folds out for easy chip removal from front
- ▶ Machine chassis with rugged steel design
- ▶ Coolant pump with coolant tank and fill level display Tank removable for easy cleaning
- ▶ With safety device to prevent simultaneous operation of thread cutting and pitch mechanism
- ▶ Hand wheels decoupled and approved in line with EN 23125
- ▶ Switch with lifecycle calculation, approved in line with EN ISO 13849
- ▶ LED machine lamp in chip guard
- ▶ Motor electrically braked
- ▶ Three-jaw chuck Ø 200 mm, no. 5 included in standard scope of delivery
- ▶ User-friendly membrane keyboard
- ▶ Two-channel CW/CCW switch approved in line with EN 23125

TM 4010D
Digital position display DPA21

Control Cabinet

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



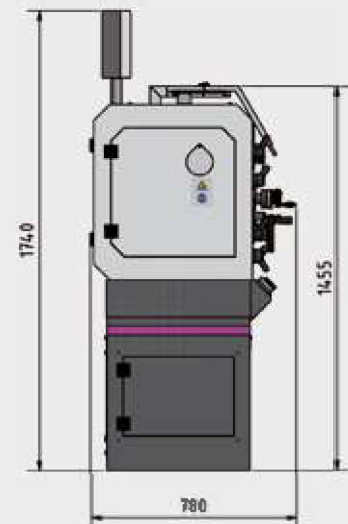
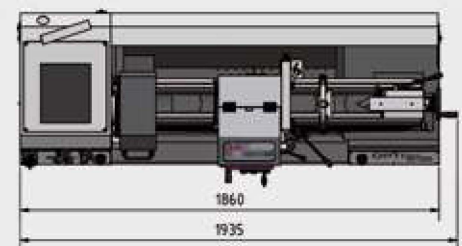
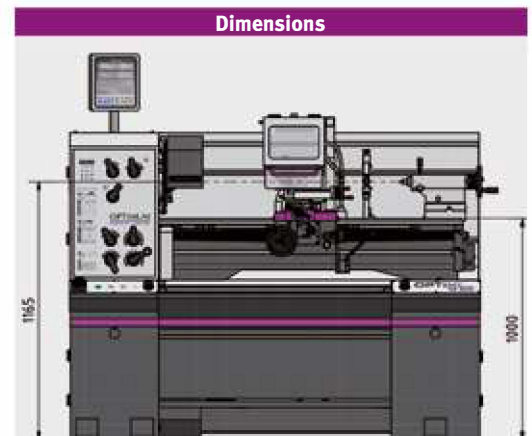
Fig.: TM 4010D

Technical specifications, accessories and dimensions

| Model | TM 4010 | TM 4010D |
|------------------------------------|---------------------------------|----------|
| Article no. | 3403040 | 3403045 |
| Machine data | | |
| Electrical connection | 400 V / 3 Ph ~50 Hz | |
| Total rated value | 2.3 kW | |
| Coolant pump motor | 100 Watts | |
| Spindle | | |
| Drive motor | 2.2 kW | |
| Spindle taper | MT 6 | |
| Spindle seat | Camlock DIN ISO 702-2 No. 5 | |
| Spindle bore, bar passage diameter | Ø 53 mm | |
| Quick change tool holder | SWH 3-E | |
| Work areas | | |
| Centre height | 200 mm | |
| Centre width | 1 000 mm | |
| Swing over cross slide | 400 mm | |
| Swing in the bed bridge | 250 mm | |
| Speed range | | |
| Spindle speeds | 70 - 2 000 rpm | |
| Number of speeds | 8 speeds | |
| Travel | | |
| Top slide travel | 98 mm | |
| Cross slide travel | 185 mm | |
| Feed and pitches | | |
| Longitudinal feed within the range | 0.014 - 0.38 mm/rev (26 feeds) | |
| Cross feed within | 0.052 - 1.392 mm/rev (32 feeds) | |
| Pitch - metric in range | 0.4 - 7 mm/rev (32 pitches) | |
| Pitch - inch in range | 56 - 4 turns/inch (31 pitches) | |
| Tailstock | | |
| Tailstock seat | MT 4 | |
| Spindle sleeve diameter / stroke | Ø 50 mm / 110 mm | |
| Dimensions | | |
| Length x width x height | 1 935 / 780 / 1 740 mm | |
| Weight | 500 kg | |

| Lathe chuck | Art no. |
|---------------------------------------------------------------------------------------------------------|---------|
| BISON three-jaw lathe chuck Ø 200 mm no. 5 Centricly clamping (chuck flange 3450212 required) | 3450210 |
| BISON four-jaw lathe chuck Ø 250 mm no. 5 Centricly clamping (chuck flange 3450218 required) | 3450216 |
| › Information about lathe chucks from page 184 | |

| Accessories | Art no. |
|----------------------------------------------------------------------|---------|
| 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 (see page 190) | 3441604 |
| Lathe tool set 16 mm, 5-part (see page 190) | 3441668 |
| Lathe tool set 16 mm, 5-part "Made in Germany" (see page 190) | 3441216 |
| Lathe tool set 16 mm, 5-part (see page 190) | 3441610 |
| Clamping disc Ø 320 mm no. 5 | 3442979 |
| Vibration-damping machine base SE 2 (6 pcs. required) | 3381016 |
| Levelling platen SE 85 (6 pcs. required) | 3352982 |
| Position stop with granular adjustment | 3441523 |
| › More accessories for lathes from page 188 | |



Scope of supply

- › Three-jaw lathe chuck Ø 200 mm, no. 5
- › Quick change tool holder 3-E
- › Fixed steady 7 - 102 mm
- › Travelling steady 10 - 60 mm
- › Reduction sleeve MT 3 - MT 6
- › Fixed centre MT 4
- › Machine initially filled with premium grade oil
- › Operating tool