

Precision leading and feed spindle machines, mature technology, fully equipped, easy to operate. 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. 6
- ▶ 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 borne on 2 re-adjustable precision taper rollers
- ▶ 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
- ▶ All metric pitches in range from 0.2 to 14 mm/rev and all inch pitches in range of 72 - 2 turns per inch configurable on control panel without replacing the interchangeable gear wheels thanks to gear shift
- ▶ Right-handed/left-handed rotation switchable on bed slide, switchable via switching spindle
- ▶ Central lubrication in bed slide
- ▶ Chassis and machine bed single-piece cast meehanite
- ▶ Leading spindle cover
- ▶ Emergency stop device with foot pedal
- ▶ 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
- ▶ Coolant system featuring separate coolant tank, fill level display and oil trap; easy and complete draining and cleaning as per DIN
- ▶ LED machine lamp in chip guard
- ▶ Siemens Sinamics frequency inverter / Safety Integrated
- ▶ Quick change tool holder 5-B
- ▶ Tool holder 20 x 100 type D for square chisels 18 mm

Control Cabinet

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



Inverter SINAMICS G120D



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

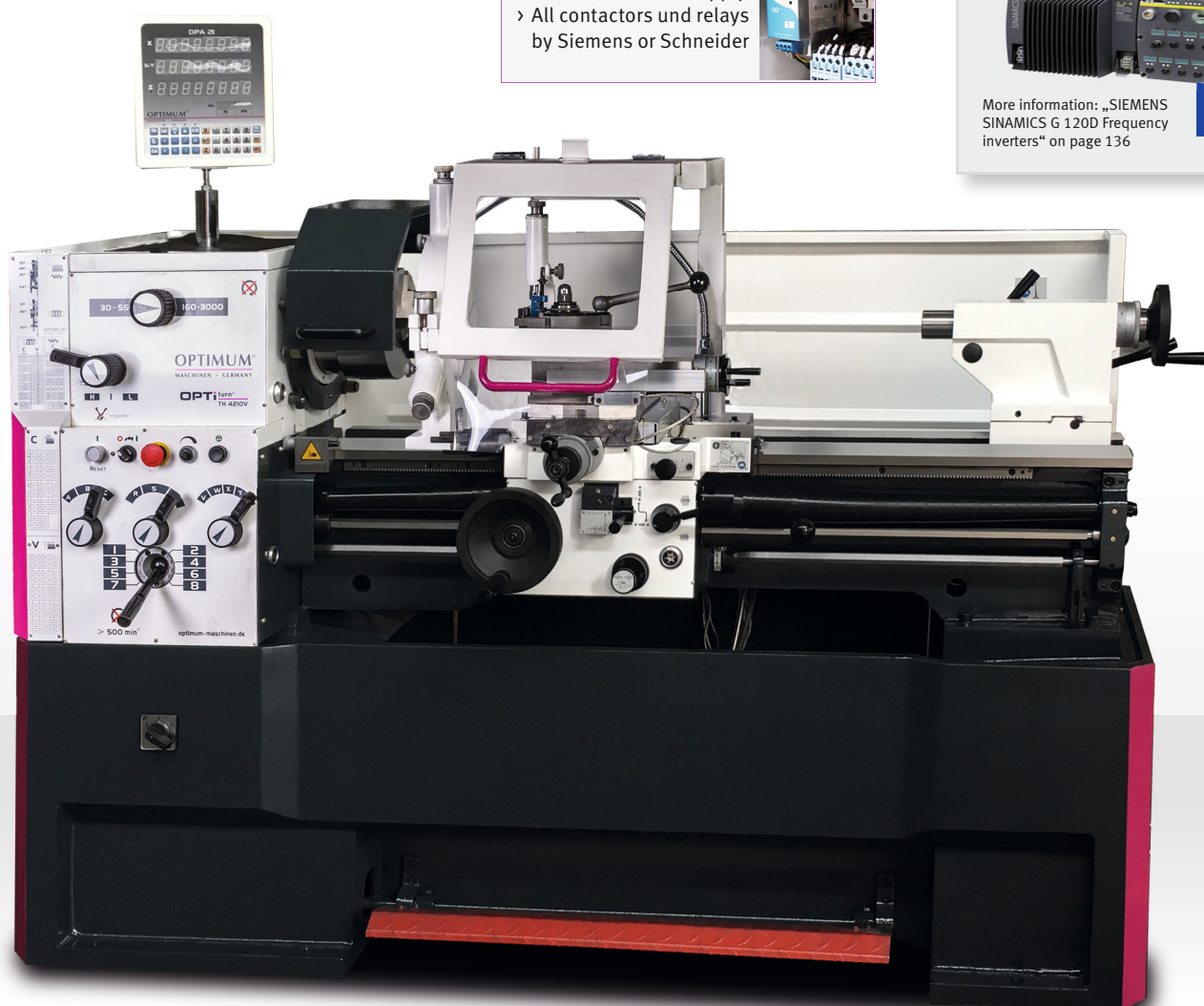
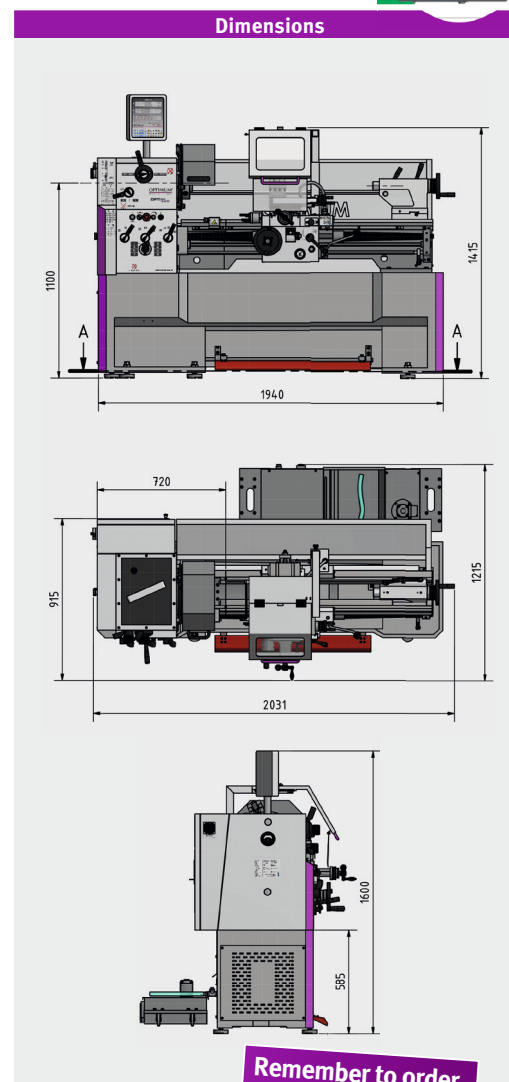


Fig.: TH 4210V - Shown with optional lathe chuck

Technical specifications, accessories and dimensions

Model	TH 4210V
Article no.	3462060
Technical specifications	
Electrical connection	400 V / 3 Ph ~ 50 Hz
Total rated value	5.6 kW
Coolant pump motor	100 W
Spindle	
Drive motor	5.5 kW
Spindle taper	MT 6
Spindle seat	Camlock DIN ISO 702-2 No. 6
Spindle bore, bar passage diameter	Ø 52 mm
Quick change tool holder height	25 mm
Work area	
Centre height	210 mm
Centre width	1 000 mm
Swing Ø over machine bed	420 mm
Swing in the bed bridge	590 mm
Turning length in bed bridge	260 mm
Swing over cross slide	250 mm
Bed width	250 mm
Speed range	
Spindle speed	30 - 3 000 rpm
Number of speeds	2 speeds. Electronically controlled
Travel	
Top slide travel	140 mm
Cross slide travel	230 mm
Feeds and pitches	
Longitudinal feed within the range	0.05 - 1.7 mm/rev (17 feeds)
Cross feed within	0.025 - 0.85 mm/rev (17 feeds)
Pitch - metric in range	0.2 - 14 mm/rev (39 pitches)
Pitch - inch in range	72 - 2 turns/inch (45 pitches)
Diametral pitch in range	8 - 44 turns/π (21 pitch)
Modular thread in range	0.3 - 3.5 mm x π (18 thread)
Tailstock	
Tailstock seat	MT 4
Tailstock spindle sleeve diameter / stroke	Ø 50 mm / 120 mm
Dimensions	
Length x width x height	2 031 x 915 (coolant tank 1 215) x 1 415 (DPA 1 600) mm
Weight	1 160 kg

Accessories	Art no.
Quick change tool holder SWH 5-B	3384305
Factory assembly SWH 5-B	9000400
Spare tool holder 25 x 120 Type D for square chisels	3384306
Spare tool holder 32 x 130 type H for round chisels	3384324
Lathe tool set HM 25 mm, 5-part (see page 188)	3441672
Lathe tool set HM 25 mm, 5-part Extension kit (see page 188)	3441623
Lathe tool set HM 20 mm, 5-part (see page 188)	3441670
Lathe tool set HM 20 mm, 5-part, Extension kit (see page 188)	3441617
Vibration damper SE 2 (6 pcs. needed)	3381016
Vibration damper SE 85 (6 pcs. needed)	3352982
Clamping block set 20-05	3440654
› More accessories for lathes from page 184	



Scope of supply

- › Steady rest passageway Ø 15 - 145 mm
- › Follow rest passageway Ø 10 - 75 mm
- › LED machine lamp
- › Reduction sleeve MT 6 - MT 4
- › Fixed centre MT 4
- › Replaceable gear set
- › Position stop with granular adjustment
- › Machine initially filled with premium grade oil
- › Operating tool
- › Quick change tool holder 5-B
- › Tool holder 25 x 120 type D for square chisels 20 mm

Lathe chuck	Art no.
OPTIMUM lathe chucks	
Three-jaw lathe chuck Ø 250 mm no. 6, centric	3442765
Four-jaw lathe chuck Ø 250 mm no. 6, centric	3442852
Four-jaw lathe chuck Ø 250 mm no. 6, individual	3442884
BISON lathe chucks	
Three-jaw lathe chuck Ø 250 mm no. 6, centric	3450330
Four-jaw lathe chuck Ø 250 mm no. 6, centric	3450380
Three-jaw lathe check Ø 250 mm no. 6, steel	3450530
Four-jaw lathe chuck Ø 250 mm no. 6, steel	3450580
› Information about lathe chucks from page 180	

*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 C3 - Note for operation with frequency converter on page 249