

Fully equipped leading and feed spindle lathes.

TH 3309D with digital position display DPA 21, TH 3309V with brushless motor for continuously variable speed control and digital position display DPA 21

Facts that impress in terms of quality, performance and price

- ▶ Tempered and polished z-axis guideway
- ▶ Spindle collet Camlock DIN ISO 702-2 no. 4
- ▶ Precision slide
- ▶ Hand wheels with adjustable fine scaling 0.04 / 0.02 mm
- ▶ Quadruple tool holder
- ▶ All guides adjustable using cleats
- ▶ Main spindle runs in oil bath
- ▶ Gearwheels smooth running, tempered and ground
- ▶ Adjustment range top slide $\pm 90^\circ$
- ▶ Guaranteed concentricity of spindle nose better than 0.015 mm
- ▶ Hand wheels decoupled and approved in line with EN 23125
- ▶ Safety hand wheels with release function in the X and Z axis
- ▶ Two-channel CW/CCW switch approved in line with EN 23125
- ▶ DC 24-Volt electric system with two-channel safety circuit as per EN 23125
- ▶ Chuck protection approved in line with EN 23125
- ▶ Switch with lifecycle calculation, approved in line with EN ISO 13849
- ▶ Lockable main switch
- ▶ Right-handed/left-handed rotation switchable on bed slide
- ▶ Leading spindle cover
- ▶ Tailstock adjustable ± 10 mm for turning spheres

- ▶ Tailstock spindle sleeve and handwheel with adjustable fine scaling 0.02 mm
- ▶ Fast, easy adjustment without tools thanks to clamping lever
- ▶ Prism bed with strong ribbing, induction tempered and precision ground
- ▶ Machine chassis with tool compartment on right-hand side (left side with 3 covers (no compartments))
- ▶ Pull-out chip drawer with guide rails
- ▶ Emergency stop device with foot pedal
- ▶ LED machine lamp integrated in chip guard

TH 3309D / TH 3309V

▶ Digital position display DPA 21

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

TH 3309V

- ▶ Smooth action and powerful brushless drive
- ▶ Speed change easily adjustable via potentiometer



TU 3309V

Powerful brushless drive

- Particularly smooth action
- › Virtually constant torque over the entire speed range
- › Extremely powerful



Control Cabinet

- 24 Volt DC Power Supply
- › All contactors und relays by Siemens or Schneider - TH 3309V by Eaton



Fig.: TH 3309D - Shown with optional lathe chuck

Technical specifications, accessories and dimensions

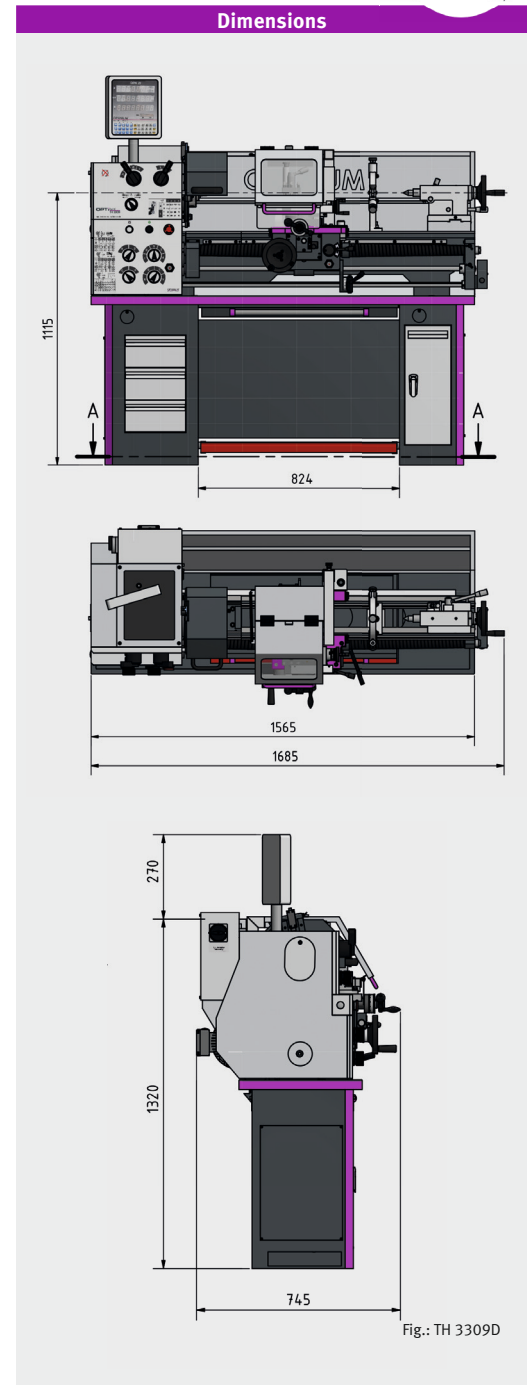
Model	TH 3309	TH 3309 D	TH 3309 V
Article no.	3402030	3402040	3402045
Technical specifications			
Electrical connection	400 V/3 Ph	230 V/1 Ph	
Drive motor	1.5 kW	2.2 kW	
Spindle			
Spindle taper	MT 5		
Spindle seat	Camlock DIN ISO 702-2 No. 4		
Spindle bore, bar passage diameter	Ø 38 mm		
Quadruple tool holder mounting height	16 mm		
Work area			
Centre height	165 mm		
Centre width	830 mm		
Swing Ø over machine bed	330 mm ⁽¹⁾		
Swing in the bed bridge	448 mm		
Turning length in bed bridge	196 mm		
Swing over cross slide	208 mm		
Speed range			
Spindle speed	70 - 2 000 rpm	15 - 2 250 rpm	
Number of speeds	16 speeds	8 speed, electrically controlled	
Travel			
Top slide travel	98 mm		
Cross slide travel	164 mm		
Feeds and pitches			
Longitudinal feed within the range	0.052 - 1.392 mm/rev (32 feeds)		
Cross feed within	0.014 - 0.38 mm/rev (32 feeds)		
Pitch - metric in range	0.4 - 7 mm/rev (26 pitches)		
Pitch - inch in range	56 - 4 turns/inch (34 pitches)		
Tailstock			
Tailstock seat	MT 3		
Tailstock- sleeve diameter/ sleeve travel	Ø 32 mm/110 mm		
Dimensions			
Length x width x height	1 685 x 745 x 1 320 / 1 590 mm		
Weight	430 kg		

Lathe chuck	Art no.
OPTIMUM three-jaw lathe chuck Ø 200 mm no. 4, centric	3442762
OPTIMUM Four-jaw lathe chuck Ø 200 mm no. 4, centric	3442843
OPTIMUM Four-jaw lathe chuck Ø 200 mm no. 4, individual	3442879
BISON three-jaw lathe chuck Ø 160 mm no. 4, centric	3450305
BISON three-jaw lathe chuck Ø 200 mm no. 4, centric	3450310
BISON Four-jaw lathe chuck Ø 160 mm no. 4, centric	3450355
BISON Four-jaw lathe chuck Ø 200 mm no. 4, centric	3450360

> Information about lathe chucks from page 180

Accessories	Art no.
Quick change tool holder SWH 3-E	3384303
Factory assembly SWH 3-E	9000400
Lathe tool set 16 mm, 5-part "Made in Germany" (see page 186)	3441216
Lathe tool set 16 mm, 5-part (see page 186)	3441610
Collet chuck 5 C	3441554

> More accessories for lathes from page 184



Remember to order a lathe chuck

Scope of supply

- > Steady rest passageway Ø 19 - 70 mm
- > Follow rest passageway Ø 16 - 50 mm
- > LED machine lamp
- > Reduction sleeve MT 5 - MT 3
- > Two fixed centres MT 3
- > Quadruplicate tool holder 16 mm
- > Replaceable gear set
- > Machine chassis
- > Machine initially filled with premium grade oil
- > Operating tool

*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