

## OPTIturn® TU 3008 / TU 3008G / TU 3008V

### Leading and feed spindle lathes with longitudinal and cross feed.

TU 3008G with gearbox.

TU 3008V with brushless motor for continuously variable speed control

#### Facts that impress in terms of quality, performance and price

- ▶ Precision workmanship
- ▶ Ribbed grey cast steel prism bed with strong ribbing, induction tempered and precision ground
- ▶ Tempered and polished z-axis guideway
- ▶ Free moving feed gear with rounded gear wheels running in an oil bath
- ▶ Guaranteed concentricity of spindle nose better than 0.009 mm
- ▶ Concentricity at chuck better than 0.04 mm
- ▶ Quadruple tool holder
- ▶ All guides adjustable using cleats
- ▶ Right-handed/left-handed rotation switchable via control panel
- ▶ Tempered main spindle borne on adjustable precision taper roller bearings
- ▶ Tapered roller bearings in P5 quality
- ▶ Tempered spindle nose
- ▶ Large spindle bore  $\varnothing$  38 mm
- ▶ Leading spindle for thread tapping or automatic longitudinal turning
- ▶ Leading and feed spindles borne on two sintered bearings
- ▶ Automatic longitudinal/cross feeds
- ▶ Feed and lead spindle cover
- ▶ Tailstock adjustable  $\pm$  5 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
- ▶ Handwheels on slide with adjustable fine scaling 0.04 / 0.01 mm
- ▶ Interchangeable gears in standard scope of delivery for thread tapping
- ▶ Emergency stop button

#### TU 3008

- ▶ V-belt

#### TU 3008G

- ▶ Gearbox

#### TU 3008V

- ▶ V-belt and brushless drive
- ▶ Smooth action, powerful, brushless DC drive with excellent control characteristics
- ▶ High-precision steel chuck for higher speeds
- ▶ Digital speed display

#### TU 3008V

##### Powerful brushless drive



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

#### X-, Z- and Z0-axis



- › Prepared for mounting of measuring system on X, Z and Z0 axis



Fig.: TU 3008V with optional chassis

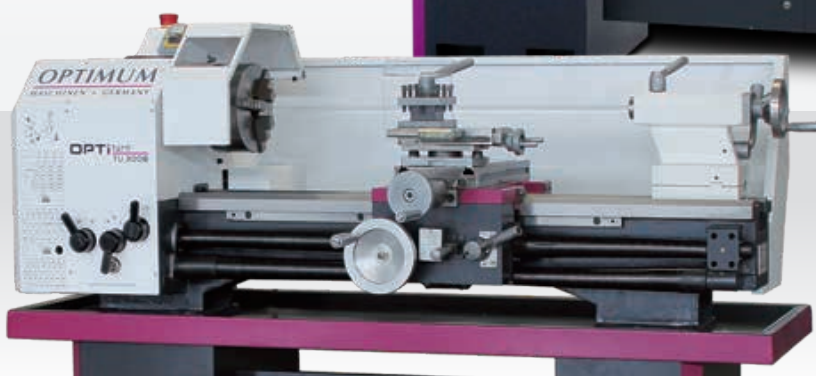


Fig.: TU 3008

Accessories  
**Machine chassis**  
 Art. no. 3440409

**Vibration dampers machine base SE 1**  
 (6 pcs. needed)  
 Art. no. 3381012

**Levelling platen SE 55**  
 (6 pcs. needed)  
 Art. no. 3352981

## Technical specifications, accessories and dimensions

Model	TU 3008	TU 3008G	TU 3008V**
Article no.	3427200	3427210	3427205
<b>Technical specifications</b>			
Electrical connection	400 V / 3 Ph ~50 Hz		230 V / 1 Ph
Drive motor	1.1 kW	1.5 kW	
<b>Spindle</b>			
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	25 mm		
<b>Work area</b>			
Centre height	158 mm		
Centre width	800 mm	720 mm	800 mm
Swing Ø over machine bed	310 mm		
Swing over cross slide	190 mm		
Bed width	180 mm		
<b>Speed range</b>			
Spindle speed TU 3008	150 - 2 000 rpm / 6 speeds		
Spindle speed TU 3008G	165 - 2 400 rpm 6 speeds		
Spindle speed TU 3008V	30 - 3 000 rpm 5 speeds, electronically controlled		
<b>Travel</b>			
Top slide travel	65 mm		
Cross slide travel	150 mm		
<b>Feeds and pitches</b>			
Longitudinal feed within the range	0.085 - 0.832 mm/rev (9 feeds)		
Cross feed within	0.01 - 0.1 mm/rev (9 feeds)		
Pitch - metric in range	0.2 - 3.5 mm/rev (18 pitches)		
Pitch - inch in range	56 - 8 turns/inch (21 pitches)		
<b>Tailstock</b>			
Tailstock seat	MT 3		
Tailstock quill diameter/stroke	Ø 38 mm / 70 mm		
<b>Dimensions</b>			
Length x width x height	1 525 x 705 x 575 mm		
Weight	226 kg	261 kg	243 kg

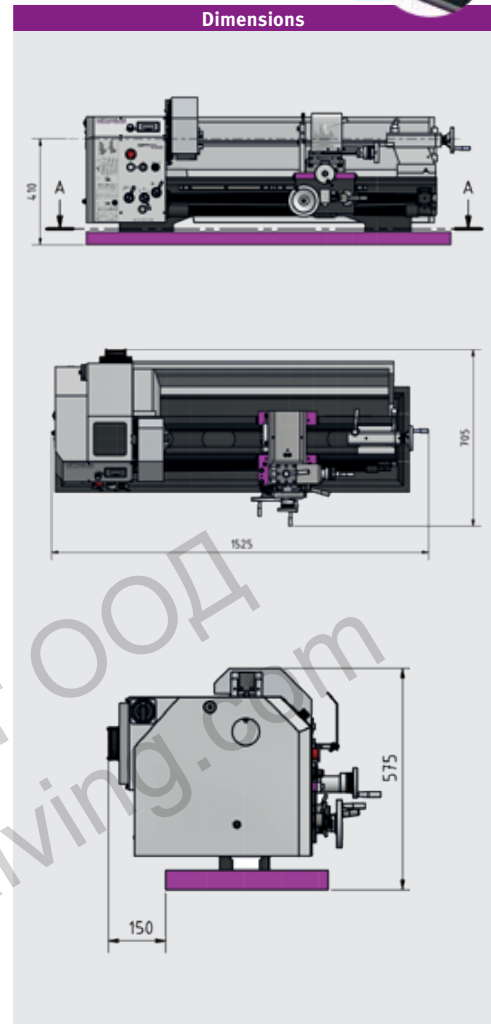
Lathe chuck	Art no.
<b>OPTIMUM Four-jaw lathe chuck</b> Ø 160 mm no. 4, centric clamping	3442840
<b>BISON Four-jaw lathe chuck</b> Ø 160 mm no. 4, centric clamping	3450355

> Information about lathe chucks from page 184

Accessories	Art no.
<b>Follow rest passageway</b> max. Ø 6 - 60 mm	3441460
<b>Steady rest passageway</b> Ø 6 - 60 mm	3441461
<b>Quick change tool holder</b> SWH 1-A	3384301
<b>Factory assembly</b> SWH 1-A	9000400
<b>Spare tool holder</b> 20 x 90 type D for square chisels	3384302
<b>Spare tool holder</b> 20 x 85 type H for round chisels	3384321
<b>Lathe tool set</b> 16 mm, 11-part (see page 190)	3441604
<b>Lathe tool set</b> 16 mm, 5-part (see page 190)	3441668
<b>Lathe tool set</b> 16 mm, 5-part (see page 190)	3441610
<b>Lathe tool set</b> 16 mm, 5-part "Made in Germany"	3441216
<b>Collet kit</b> 3 - 25 mm, 5C, 17-part	3441509
<b>Collet chuck</b> 5C - Camlock no. 4	3441554
<b>Clamping block set</b> 16-05	3440653

> More accessories for lathes from page 188

\*Important information on „General notes on operating our machines“ on page 253  
 \*\*The lathe (frequency converter) complies with the DIN EN 55011 standard: class C3



### Scope of supply

- > Three-jaw lathe chuck Ø 160 mm, centre clamping
- > Fixed centre MT 3 and MT 5
- > Splashguard
- > Chip tray
- > Quadruplicate tool holder 25 mm
- > Replaceable gear set
- > Operating tool

Accessories	Art no.
<b>Digital position display DRO 5</b> incl. 3 magnetic sensors	3383975
<b>Magnetic strip</b> length 1 100 mm	3383978
<b>Assembly kit</b> (holders for the X / Y and Z0 axis/set of screws)	3383985
<b>Factory assembly</b>	9000420

> Information about position on page 252

