

**OPTIMUM**  
the original

## Leading spindle lathes with feed gear for demanding users.

TU 2807V with brushless motor for continuously variable speed control

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

- ▶ Precision workmanship
- ▶ Powerful motor, low-maintenance motor
- ▶ Ribbed grey cast steel prism bed with strong ribbing, induction tempered and precision ground
- ▶ Tempered and polished z-axis guideway
- ▶ Guaranteed concentricity of spindle nose better than 0.009 mm
- ▶ Concentricity at chuck better than 0.04 mm
- ▶ Automatic longitudinal/leading spindle drive
- ▶ Leading spindle for thread tapping or automatic longitudinal turning
- ▶ Clockwise/Anti-clockwise rotation switchable via control panel
- ▶ Leading spindle borne on two sintered bearings
- ▶ Set of interchangeable gears in standard scope of delivery for thread tapping

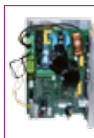
- ▶ Handwheels on slide with adjustable fine scaling 0.04 / 0.01 mm
- ▶ Thrust bearings
- ▶ Three-jaw lathe chuck included in standard scope of delivery
- ▶ Emergency stop button
- ▶ Fully equipped; the user can immediately start productive work after commissioning

### TU 2807V

- ▶ Smooth action, powerful, brushless DC drive with excellent control characteristics
- ▶ High-precision steel chuck for higher speeds
- ▶ Speed change easily adjustable via potentiometer
- ▶ Digital speed display

### TU 2807V Powerful brushless drive

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



### Main spindle

- Tempered and borne on adjustable precision taper roller bearings
- Two tapered roller bearings in P5 quality
- Short taper
- Tempered spindle nose with Ø 26 mm spindle bore

### Feed gear

- Easy action
- Rounded gearwheels
- Running in oil bath

### Accessories

**Machine chassis**  
Art no. 3440409

**Vibration damper base SE 1**  
(6 pcs. required)  
Art no. 3381012

### Slide

- Four x tool holder
- All guides adjustable without play using wedge rails
- Roll-milled trapezoidal spindles
- Chip guard on top slide
- Milling machine BF 20V attachable
- Top slide displaceable on cross slide

### Tailstock

- Adjustable ± 5 mm for turning balls
- Tailstock spindle sleeve and handwheel with adjustable fine scaling 0.02 mm
- Fast, easy adjustment without tools thanks to clamping lever



Fig.: TU 2807V

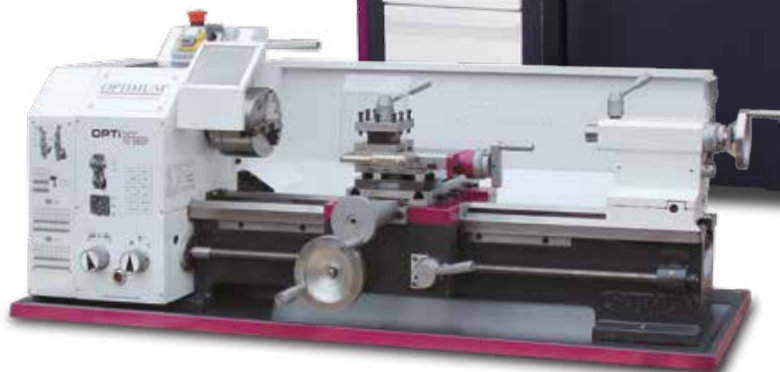
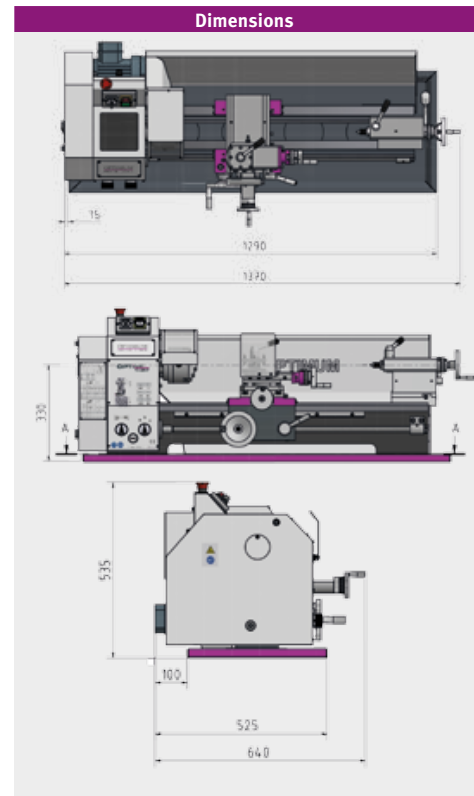


Fig.: TU 2807

## Technical specifications, accessories and dimensions

Model	TU 2807	TU 2807V
Article no. (230 V)	3427001	3427006
Article no. (400 V)	3427003	
<b>Technical specifications</b>		
Electrical connection	230 V / 1 Ph ~ 50 Hz 400 V / 3 Ph ~50 Hz	230 V / 1 Ph ~50 Hz
<b>Spindle</b>		
Drive motor	850 W	1.5 kW
Spindle taper	MT 4	
Spindle bore	Ø 26 mm	
Spindle holder	Short taper	
Four x tool holder. Chuck height	max. 13.5 mm	
<b>Work area</b>		
Max. height	140 mm	
Max. width	700 mm	
Orbit Ø above machine bed	266 mm <sup>(1)</sup>	
Bed width	180 mm	
<b>Speed range</b>		
Spindle speed	125 - 2,000 rpm	30 - 4,000 rpm
Number of gears	6 gears	4 gears elec. control
<b>Strokes</b>		
Top slide stroke	60 mm	
Cross slide stroke	160 mm	
<b>Feeds and pitches</b>		
Longitudinal feed within the range	0.07 - 0.4 mm/rev (6 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 chuck	MT 2	
Tailstock - quill stroke	85 mm	
<b>Dimensions</b>		
Length x width x height	1,370 x 640 x 535 mm	1,370 x 660 x 440 mm
Net weight	180 kg	

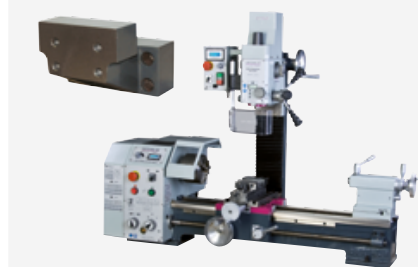
Accessories	Art no.
<b>► Lathe chucks and accessories</b>	
<b>Four-jaw lathe chuck</b> Ø 125 mm, individual clamping (Chuck flange 3441312 required)	3442874
<b>Four-jaw lathe chuck</b> Ø 125 mm, centre clamping (Chuck flange 3441312 required)	3442812
<b>Chuck flange</b> for lathe chuck Ø 125 mm (3442874/3442812)	3441312
<b>Three-jaw lathe chuck</b> Ø 160 mm, centre clamping (Chuck flange 3441413 required)	3442716
<b>Four-jaw lathe chuck</b> Ø 160 mm, centre clamping (Chuck flange 3441413 required)	3442816
<b>Chuck flange</b> for lathe chuck Ø 160 mm (3442716/3442816)	3441413
<b>► Steady rests</b>	
<b>Fixed steady</b> passageway max. Ø 55 mm	3441415
<b>Travelling steady</b> passageway max. Ø 56 mm	3441410
<b>► Tool holders and lathe tools</b>	
<b>Quick change tool holder</b> SWH 1-A	3384301
<b>Factory assembly</b> SWH 1-A	9000401
<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> 10 mm, 11-part	3441602
<b>Lathe tool set</b> 12 mm, 11-part	3441603
<b>Lathe tool set</b> 12 mm, 5-part "Made in Germany"	3441212
<b>► Spring collets</b>	
<b>Spring collet set</b> ER 32, 3 - 20 mm	3441122
<b>Collet chuck</b> ER 32, short taper	3441306
<b>► More „Accessories Turning“ on page 148</b>	



### Scope of Delivery

- Three-jaw lathe chuck Ø 125 mm, centre clamping
- Fixed centre MT 2 and MT 4
- Splashguard
- Chip tray
- HSS lathe tools
- Quadruplicate tool holder 13.5 mm
- Set of interchangeable gears
- Operating tool

Accessories	Article no.
<b>► Attaching a milling machine to the lathe</b>	
<b>BF 20AV</b> - Column and milling head from BF 20 Vario	3338129
<b>Attachment adapter</b> BF 20AV to lathe	3356572



(1) Explanation see „General notes on operating our machines“ on page 211