### Технически характеристики

## OPTiturn® TU 2807 / TU 2807V

### 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
- Free moving feed gear with rounded gear wheels running in an oil bath
- ► 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
- ► 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 with Ø 26 mm spindle bore
- ► Roll-milled trapezoidal spindles
- ► Chip guard on top slide
- ▶ Top slide displaceable on cross slide
- ► Tailstock adjustable ± 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
- Leading spindle borne on two sintered bearings
- 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





# Технически характеристики

### Technical specifications, accessories and dimensions

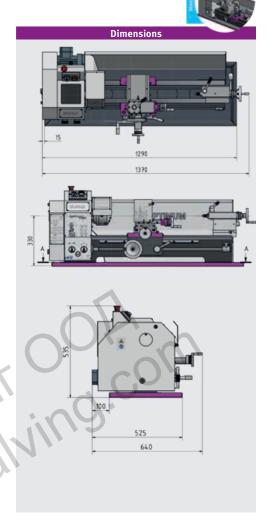
Model	TU 2807	TU 2807V**	
Article no. (230 V)	3427001	3427006	
Article no. (400 V)	3427003	-	
Technical specifications			
Electrical connection	230 V / 1 Ph ~ 50 Hz 400 V / 3 Ph ~50 Hz	230 V / 1 Ph ~ 50 Hz	
Drive motor	850 W	1.5 kW	
Spindle			
Spindle taper	MT 4		
Spindle seat	Shor	Short taper	
Spindle bore, bar passage diameter	Ø 20	 6 mm	
Quadruple tool holder height	max. 1	max. 13.5 mm	
Work area			
Centre height	140	) mm	
Centre width	700 mm		
Swing Ø over machine bed	266 mm		
Swing over cross slide	170 mm		
Bed width	180 mm		
Speed range			
Spindle speed	150 - 2 000 rpm	30 - 4 000 rpm	
Number of speeds	6 speeds	4 speeds Electronically controlled	
Travel			
Top slide travel	60 mm		
Cross slide travel	160 mm		
Feeds and pitches			
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)		
Tailstock			
Tailstock seat	MT 2		
Tailstock quill diameter/stroke	30 mm /85 mm		
Dimensions			
Length x width x height	1 370 x 640 x 535 mm	1 370 x 660 x 440 mm	
Weight	180 kg		

Lathe chucks and accessories	Art no.		
Four-jaw lathe chuck Ø 125 mm, individual clamping (Chuck flange 3441312 required)	3442874		
Four-jaw lathe chuck Ø 125 mm, centre clamping (Chuck flange 3441312 required)	3442812		
Chuck flange for lathe chuck Ø 125 mm (3442874/3442812)	3441312		
Three-jaw lathe chuck ∅ 160 mm, centre clamping (Chuck flange 3441413 required)	3442716		
Four-jaw lathe chuck Ø 160 mm, centre clamping (Chuck flange 3441413 required)	3442816		
Chuck flange for lathe chuck Ø 160 mm (3442716/3442816)	3441413		
> Information about lathe chucks from page 184			

Accessories	Art no.
Steady rest passageway max. Ø 55 mm	3441415
Follow rest passageway max. Ø 56 mm	3441410
Quick change tool holder SWH 1-A	3384301
Factory assembly 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
Lathe tool set 10 mm, 11-part (see page 189)	3441602
Lathe tool set 12 mm, 11-part (see page 189)	3441603
Lathe tool set 12 mm, 5-part "Made in Germany"	3441212
<b>Collet kit</b> ER 32, 3 - 20 mm	3441122
Collet chuck ER 25, cylindrical	3441305
Collet chuck ER 32, short taper	3441306
> More accessories for lathes from page 188	

<sup>\*</sup>Important information on "General notes on operating our machines" on page 253

important information on "General notes on operating our machines" on page 2	- ) )
**The lathe (frequency converter) complies with the DIN EN 55011 standard: cl	lass C3



Sc	ope of supply
> 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
>	Replaceable gear set
>	Operating tool

Accessories	Art no.		
X 0,27- Y 1,01- Z 0,74- O- OPTIME M'			
<b>Digital position display DRO 5</b> incl. 3 magnetic sensors	3383975		
Magnetic strip length 1 100 mm	3383978		
Factory assembly	9000420		
> Infomation about position display on page 252			