

Lathe

OPTIturn TU 2807 (230 V)

Leading screw lathes with feed gear for the demanding user. TU 2807V with brushless motor for stepless speed control

OPTIMUM[®]
MASCHINEN - GERMANY

Article number ▼

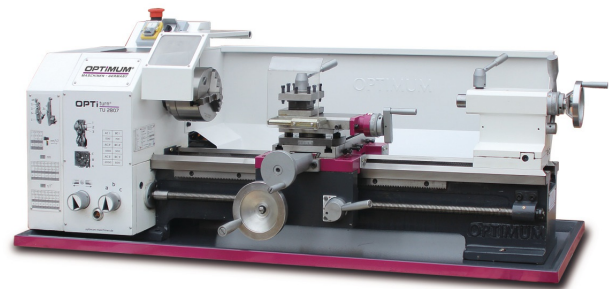
3427001

Brand ▼

Optimum

Catalog directory ▼

Metalworking machines » Lathes
conventional » OPTIturn TU 2807 / TU
2807V



Shipping informations ▼

Packaging Metrics		Weights		Delivery		Other	
Length	1,320 mm	Gross	225 kg	Delivery	Carrier	DualUse	✘
Width	700 mm	Net	196 kg	Content	1 pc(s).	SCIP	n/a
Height	680 mm					SVHC	No



Description ▼

- Precise processing
- Powerful, maintenance-free engine
- Heavily ribbed prism bed made of gray cast iron, inductively hardened and precision ground
- Smooth-running feed gear with rounded gears running in an oil bath
- Hardened and ground Z-axis guideway
- Guaranteed concentricity of the spindle nose better than 0.009 mm
- Concentricity on the lathe chuck better than 0.04 mm
- Automatic longitudinal / lead screw drive
- Lead screw for thread cutting or automatic longitudinal turning
- Quadruple tool holder
- All guides can be adjusted by wedge strips
- Right / left rotation in the control panel switchable
- Hardened main spindle mounted in adjustable precision tapered roller bearings
- Tapered roller bearings in P5 quality
- Hardened spindle nose with \varnothing 26 mm spindle bore
- Rolled trapezoid spindles
- Chip protection on the upper slide
- Upper slide on cross slide slidable
- Tailstock for taper turning \pm 5 mm adjustable
- Tailstock quill and handwheel with adjustable fine scale 0.02 mm
- Fast, easy and tool-free adjustment by means of a clamping lever
- Leadscrew stored in two sintered bearings
- Change gear set in standard scope of supply for thread cutting
- Handwheels on the carriage with adjustable fine scale 0.04 / 0.01 mm
- thrust bearing
- 3-jaw lathe chuck in the standard scope of delivery
- Emergency stop impact switch
- Fully equipped, allowing the user to be productive immediately after commissioning

TU 2807V

- Quiet, powerful and brushless DC drive with excellent control characteristics
- High precision steel lining for higher speeds
- Speed change easily adjustable via potentiometer
- Digital speed display

Delivery content ▼

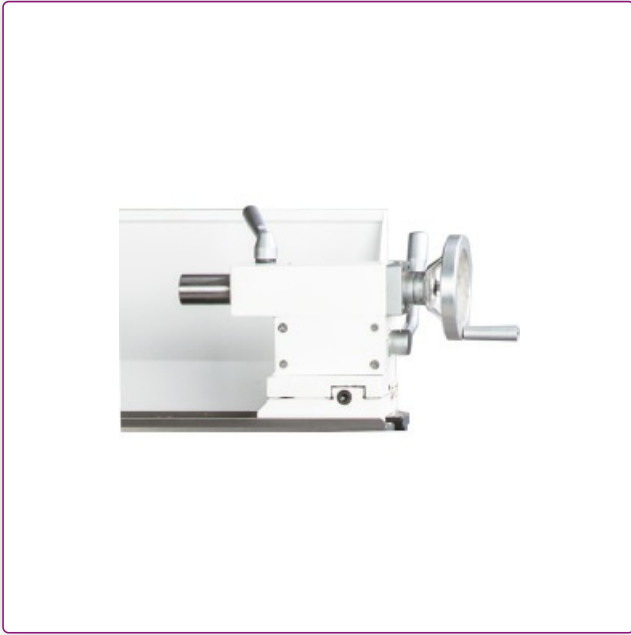
- Three-jaw lathe chuck \varnothing 125 mm, centric clamping
- Fixed centering point MK 2 and MK 4
- Quadruple steel holder 12 mm
- HSS lathe tool
- Bulkhead
- Chip pan
- Change gear set
- Operating tool

Media informations ▼



Machine bed

- Prepared for measuring system assembly of the X, Z and Z0 axes



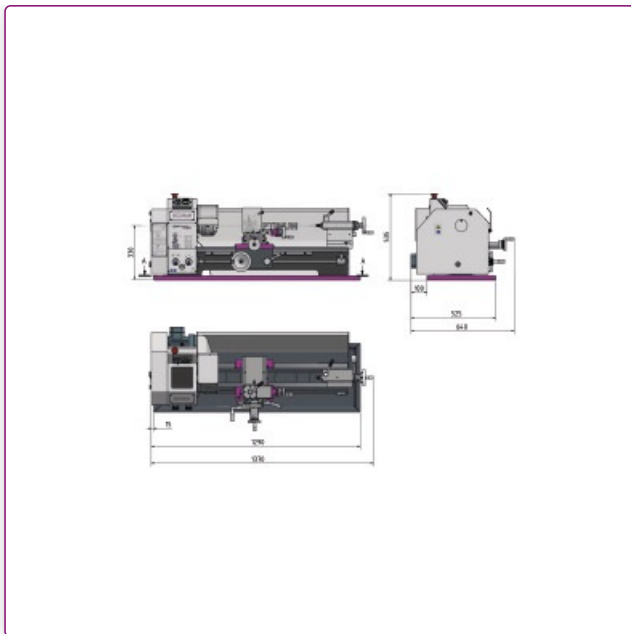
Tailstock

- for taper turning ± 5 mm adjustable
- Tailstock quill and handwheel with adjustable fine scaling 0.02 mm
- Quick, easy and toolless adjustment of the tailstock by means of clamping lever



Lathe chuck and protection

- Lathe chuck guard with position switch
- Three-jaw lathe chuck $\varnothing 125$ mm, centric clamping in standard scope of delivery



Technical data ▼

Dimensions and weights			
Length (product) approx.	1370 mm	Width/depth (product) approx.	640 mm
Height (product) approx.	535 mm	Net weight approx.	196 kg
Work areas			
Max. height	140 mm	Max. width	700 mm
Swing diameter above machine bed	266 mm	Swing diameter above planing slide	170 mm
Bed width	180 mm		
Speed range			
Number of gears	6	Speed range	150 – 2000 min ⁻¹
Electrical Data			
Drive motor output	0,85 kW	Supply voltage	230 V
Mains frequency	50 Hz		
Spindle			
Spindle chuck	short taper	Spindle bore/rod passage diameter	26 mm
Spindle cone	MT 4	Tool holder max. chuck height	12 mm
Tailstock			
Tailstock chuck	MK 2	Tailstock quill stroke	85 mm
Tailstock quill diameter	30 mm		
Pitches			
Metric pitch	0,2 – 3,5 mm/rev	Number of metric pitches	18
Imperial pitch	56 – 8 Gg/1"	Number of imperial pitches	21
Travel			
Travel upper slide	60 mm	Travel cross slide	160 mm
Travel carriage saddle	580 mm		
Feed			
Longitudinal feed range	0,07 – 0,4 mm/rev	Number of longitudinal feeds	6

Accessories ▼



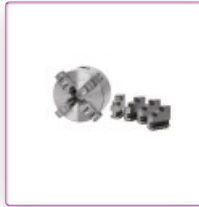
Four-jaw lathe chuck, individually clamping

Ø 125 mm

Article number ▼

3442874

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Four-jaw lathe chuck, concentric clamping

Ø 125 mm

Article number ▼

3442812

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Chuck flange

Ø 125 mm short taper

Article number ▼

3441312

OPTIMUM[®]
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Three-jaw lathe chuck

Ø 160 mm centrally exciting

Article number ▼

3442716

OPTIMUM[®]
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Four-jaw lathe chuck, concentric clamping

Ø 160 mm

Article number ▼

3442816

OPTIMUM[®]
MASCHINEN - GERMANY



Chuck flange

Ø 160 mm short taper

Article number ▼

3441413

OPTIMUM[®]
MASCHINEN - GERMANY



Quick change tool kit

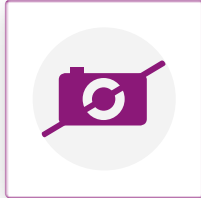
SWH 1 - A

Repeat accuracy 0.01 mm

Article number ▼

3384301

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Factory assembly

SWH 1-A

Article number ▼

9000401

OPTIMUM[®]
MASCHINEN - GERMANY



Spare steel holder

20x90 type D

Article number ▼

3384302

OPTIMUM[®]
MASCHINEN - GERMANY



Spare steel holder

20 x 85 type H, for round chisel

Article number ▼

3384321

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Turning tool set

10 mm, 11-part

Article number ▼

3441602

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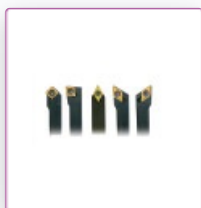
Turning tool set

12 mm, 11-part

Article number ▼

3441603

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Turning tool set

HM 12 mm, 5-part "Made in Germany"

Article number ▼

3441212

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Fixed bezel
for TU 2807 / TU 2807V

Article number ▼
3441415

OPTIMUM®
MASCHINEN - GERMANY



Rotating bezel
Ø max. 56 mm

Article number ▼
3441410

OPTIMUM®
MASCHINEN - GERMANY



Collet set
ER 32, Ø 1 - 16 mm

Article number ▼
3441122

OPTIMUM®
MASCHINEN - GERMANY



Collet chuck
ER 25, Ø 52 mm, cylindrical

Article number ▼
3441305

OPTIMUM®
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Collet chuck
ER 32 Ø 52 mm short taper

Article number ▼
3441306

OPTIMUM®
MASCHINEN - GERMANY

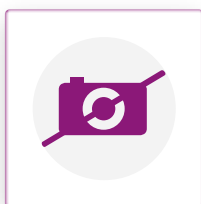


Digital position indicator
DRO 5

Digital 3-axis position indicator for milling machines and lathes with speed display

Article number ▼
3383975

OPTIMUM®
MASCHINEN - GERMANY



Magnetic tape
OMB10 for DRO5 1100 mm

Article number ▼
3383978

OPTIMUM®
MASCHINEN - GERMANY



Factory assembly
MPA 3/4/DRO5

Article number ▼
9000420

OPTIMUM®
MASCHINEN - GERMANY



Turning tool set
HM 10 mm, 5-part

Article number ▼
3441664

OPTIMUM®
MASCHINEN - GERMANY



Turning tool set
HM 12 mm, 5-part

Article number ▼
3441666

OPTIMUM®
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Internal turning set
10 mm

Article number ▼
3441640

OPTIMUM®
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Internal turning set
12 mm

Article number ▼
3441641

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Center drill set
10tlg. 0.75-4.5 mm HSS

Article number ▼
3203010

OPTIMUM®
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Substructure
MST 1

Article number ▼
3440409

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Twist drill HSS with Morse taper
MT 2

Article number ▼
3051002

OPTIMUM®
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Face plate
Ø 265 mm for TU 2807

Article number ▼
3441452

OPTIMUM®
MASCHINEN - GERMANY



Revolving centering point
MT 2

Article number ▼
3440702

OPTIMUM®
MASCHINEN - GERMANY



Revolving centering point
MK2 - with exchangeable tips

Article number ▼
3440732

OPTIMUM®
MASCHINEN - GERMANY



Revolving centering point
MT 3

Article number ▼
3451003

OPTIMUM®
MASCHINEN - GERMANY



Collet set
ER 25, Ø 1-16 mm

Article number ▼
3441109

OPTIMUM[®]
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Universal coolant device
230 V

Article number ▼
3351999

OPTIMUM[®]
MASCHINEN - GERMANY



Leveling plate
SE 1

Article number ▼
3381012

OPTIMUM[®]
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Vibration damper machine foot
SE 55

Article number ▼
3352981

OPTIMUM[®]
MASCHINEN - GERMANY