

Lathe

OPTIturn TU 1503V

The smallest lathe with electronically adjustable speed



Article number ▼

3420260

Brand ▼

Optimum

Catalog directory ▼

Metalworking machines » Lathes conventional » OPTIturn TU 1503V



Shipping informations ▼

Packaging Metrics		Weights		Delivery		Other	
Length	720 mm	Gross	26 kg	Delivery	Carrier	DualUse	✘
Width	415 mm	Net	23 kg	Content	1 pc(s).	SCIP	n/a
Height	345 mm					SVHC	No



Description ▼

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- DC motor
- Verrippt prism bed made of gray cast iron, inductively hardened and ground
- Hardened and ground Z-axis guideway
- Guaranteed concentricity of the spindle nose better than 0.015 mm
- Concentricity - lathe chuck max 0.05 mm
- Lead screw for thread cutting or automatic longitudinal turning
- Longitudinal, level and upper slide
- Automatic longitudinal / lead screw drive
- Large threading area due to change gear set
- 3-jaw lathe chuck in the standard scope of delivery
- Easy and fast speed change via V-belt
- Safety switch in the cover
- Right / left rotation in the control panel switchable
- Chuck protection with microswitch
- Handwheels with adjustable fine scale 0.04 / 0.01 mm
- All guides can be adjusted without clearance by means of wedge strips
- Emergency stop impact switch
- Low voltage electronics
EMC filter class C1

Delivery content ▼

- Three-jaw lathe chuck Ø 80 mm, centrally exciting
- Fixed center point MK1
- bulkhead
- chip pan
- Change gear set
- Double tool holder
- operating tool

Media informations ▼



Technical data ▼

Dimensions and weights			
Length (product) approx.	570 mm	Width/depth (product) approx.	340 mm
Height (product) approx.	300 mm	Net weight approx.	23 kg
Work areas			

Max. height	75 mm	Max. width	265 mm
Swing diameter above planing slide	70 mm	Bed width	70 mm
Speed range			
Number of gears	1	Speed control	electronically adjustable
Speed range	120 – 3000 min ⁻¹		
Electrical Data			
Drive motor output	0,45 kW	Supply voltage	230 V
Mains frequency	50 Hz		
Standards and certifications			
Standard	DIN EN 55011	EMC level	C1
Spindle			
Spindle chuck	cylindrical Ø 22	Spindle bore/rod passage diameter	11 mm
Spindle cone	MT 1	Tool holder max. chuck height	12 mm
Tailstock			
Tailstock chuck	Shortened MT 1	Tailstock quill stroke	30 mm
Pitches			
Metric pitch	0,5 – 1,5 mm/rev	Number of metric pitches	8
Travel			
Travel upper slide	40 mm	Travel cross slide	55 mm
Travel carriage saddle	270 mm		
Feed			
Longitudinal feed range	0,05 – 0,1 mm/rev	Number of longitudinal feeds	2

Accessories ▼



Three-jaw lathe chuck Ø 80 mm centrally exciting

Article number ▼
3440287

OPTIMUM[®]
MASCHINEN - GERMANY



Four-jaw lathe chuck, individually clamping Ø 80 mm

Article number ▼
3440286

OPTIMUM[®]
MASCHINEN - GERMANY



Four-jaw lathe chuck, concentric clamping Ø 80 mm

Article number ▼
3442808

OPTIMUM[®]
MASCHINEN - GERMANY



Turning tool set
8 mm, 11 parts

Article number ▼
3441601

OPTIMUM®
MASCHINEN - GERMANY



Rotating bezel
Ø max. 45 mm

Article number ▼
3440210

OPTIMUM®
MASCHINEN - GERMANY



Fixed bezel
for TU 1503V

Article number ▼
3440211

OPTIMUM®
MASCHINEN - GERMANY



Revolving centering point
MT 1

Article number ▼
3440700

OPTIMUM®
MASCHINEN - GERMANY



Collet chuck
ER 16, Ø 22 mm, cylindrical

Article number ▼
3440281

OPTIMUM®
MASCHINEN - GERMANY



Collet set
ER 16, 1 - 10 mm

Article number ▼
3440282

OPTIMUM®
MASCHINEN - GERMANY



Turning tool set
HM 8 mm, 5-part

Article number ▼
3441662

OPTIMUM®
MASCHINEN - GERMANY



Revolving centering point

MT 2

Article number ▼

3451002

OPTIMUM[®]
MASCHINEN - GERMANY



Universal coolant device

230 V

Article number ▼

3351999

OPTIMUM[®]
MASCHINEN - GERMANY