

Precision guide and drawbar turning machine

OPTIturn TH 4615V

Precision head and spindle lathe - unique in precision and operation with Siemens Inverter Vario drive

Article number ▼

3462125

Brand ▼

Optimum

Catalog directory ▼

Metalworking machines » Lathes
conventional » OPTIturn TH 4615V

OPTIMUM
MASCHINEN - GERMANY



Shipping informations ▼

Packaging Metrics		Weights		Delivery		Other	
Length	2,800 mm	Gross	2,115 kg	Delivery	Special transportation	DualUse	✗
Width	1,150 mm	Net	1,810 kg	Content	1 pc(s).	SCIP	n/a
Height	1,650 mm					SVHC	No



Description ▼

- Hardened and ground Z-axis guideway
- Precisely crafted sled
- Handwheels with adjustable fine scale 0.04 / 0.02 mm
- Quadruple tool holder
- All guides can be adjusted by wedge strips
- Waves, wheels and main spindle running in oil bath
- Adjustment range upper slide $\pm 90^\circ$
- Guaranteed concentricity of the spindle nose better than 0.015 mm
- Gear wheels smooth, hardened and ground with 2 adjustable precision tapered roller bearings
- Fast-switching feed gear in a closed design, gears and shafts hardened and ground in an oil bath in precision bearings running
- Handwheels decoupled and tested according to EN 23125
- Two-channel right-left switch tested to EN 23125
- Switch with life cycle calculation, tested according to EN ISO 13849
- Right / left rotation on bed carriage via switching spindle switchable
- Mechanical longitudinal feed-out shut-off of the bed carriage with four adjustable eccentrics leading spindle
- Emergency stop device with foot control
- Safety handwheels with release function in the X and Z axis
- Adjustable scale of the threaded clock
- Central lubrication in the bed slide
- Tailstock for taper turning ± 10 mm adjustable
- Tailstock quill and hand wheel with adjustable fine scale 0.025 mm
- Fast, easy and tool-free adjustment by means of a clamping lever
- Strongly ribbed prism bed, induction hardened and precision ground from gray cast iron
- Coolant device with separate coolant tank with level indicator and oil separator; easy and complete emptying and cleaning according to DIN
- Large dimensioned chip guard with integrated LED machine lamp
- Quick change steel holder SWH 5-B
- Digital position indicator DPA 21 with speed display
- Wiring via energy chain

Delivery content ▼

- Fixed bezel passage max. $\varnothing$ 160 mm
- Running bezel passage max. $\varnothing$ 100 mm
- LED machine light
- Reduction sleeve MK 6 / MK 4 (TH 4210D-TH 4620D)
- Reduction sleeve MK 7 / MK 4 (TH 4615V)
- Fixed centering point MK 4
- Quick change steel holder 5-B
- Steel holder 25 x 120 type D for square chisels
- Threading gauge
- Change gear set
- Initial machine filling with quality oil
- operating tool

Do not forget the lathe chuck!

Media informations ▼



Figure shows OPTturn TU 4615V with optional quality chuck from OPTIMUM



Control cabinet

- 24 volt DC power supply
- All contactors and relays from Siemens or Eaton



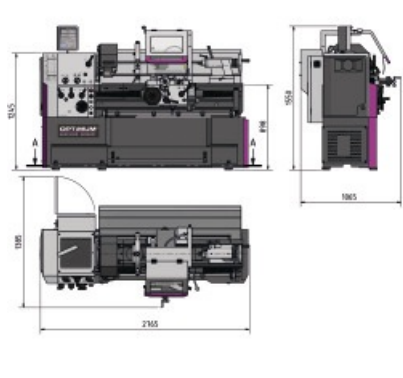
Dig. position indicator DPA 21

- User-friendly membrane keypad
- Significant reduction of production times
- Sensor for recording the spindle speeds



Quick-change steel holder SWH 5-B

- in standard scope of delivery
- Steel holder 25 x 120 type D for square chisel 25 mm in standard scope of delivery



Technical data ▼

Dimensions and weights			
Length (product) approx.		2765 mm	Width/depth (product) approx.
Height (product) approx.		1550 mm	Net weight approx.
Work areas			
Max. height		230 mm	Max. width
Swing diameter above machine bed		460 mm	Swing diameter in bed bridge
Swing diameter above planing slide		270 mm	Turning length in bed bridge
Bed width		300 mm	
Speed range			
Speed control		electronically adjustable	Number of gears
Speed range		30 – 2000 min ⁻¹	
Electrical Data			
Drive motor output		7,5 kW	Supply voltage
Mains frequency		50 Hz	
Cooling lubricant system			
Cooling lubricant system coolant pump output		125 W	
Standards and certifications			
Standard		DIN EN 55011	EMC level
			C3
Spindle			
Spindle chuck		Camlock DIN ISO 702-2 No. 8	Spindle bore/rod passage diameter
			80 mm
Spindle cone		MT 7	Tool holder max. chuck height
			25 mm
Tailstock			
Tailstock chuck		MT 4	Tailstock quill stroke
			130 mm
Tailstock quill diameter		60 mm	
Pitches			
Metric pitch		0,1 – 14 mm/rev	Number of metric pitches
			41
Imperial pitch		112 – 2 Gg/1"	Number of imperial pitches
			41
Diametrical pitch		4 – 112 DPI	Number of diametrical pitches
			50
Modular thread pitch		0,1 – 7 mm/rev	Number of modular thread pitches
			34

Travel			
Travel upper slide	125 mm	Travel cross slide	285 mm
Travel carriage saddle	1305 mm		
Feed			
Longitudinal feed range	0,031 – 1,7 mm/rev	Number of longitudinal feeds	42
Flat feed range	0,014 – 0,784 mm/rev	Number of flat feeds	42
Electrical connections			
Total rated value	8.5 kW		

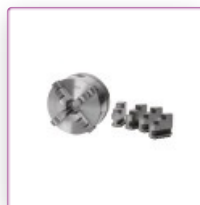
Accessories ▼



OPTIMUM Three-jaw lathe chuck centre clamping Ø 315 mm Camlock DIN ISO 702-2 No. 8

Article number ▼
3442768

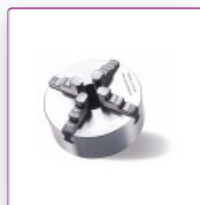
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OPTIMUM four-jaw lathe chuck Cast Camlock, centre clamping Ø 315 mm Camlock DIN ISO 702-2 No. 8

Article number ▼
3442856

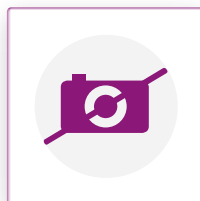
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MASCHINEN - GERMANY



OPTIMUM four-jaw lathe chuck Cast Camlock, single clamping Ø 315 mm Camlock DIN ISO 702-2 No. 8

Article number ▼
3442888

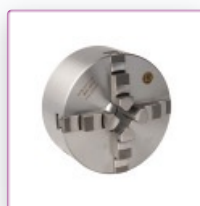
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BISON three-jaw lathe chuck Camlock casting centre clamping Ø 315 mm Camlock DIN ISO 702-2 No. 8

Article number ▼
3450335

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BISON four-jaw lathe chuck Cast Camlock centric exciting Ø 315 mm Camlock DIN ISO 702-2 No. 8

Article number ▼
3450385

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Face plate
Ø 480 mm Camlock DIN ISO 702-2 No. 8

Article number ▼
3442982

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Revolving centering point
MT 4

Article number ▼
3440704

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Position stop

Article number ▼
3444022

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Turning tool set
HM 20 mm, 5-part

Article number ▼
3441670

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Turning tool set
HM 20 mm, 5-part

Article number ▼
3441617

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Turning tool set
HM 25 mm, 5-part

Article number ▼
3441672

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Turning tool set
HM 25 mm, 5-part

With carbide inserts
Article number ▼
3441623

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Internal turning set
5-piece

Article number ▼
3441650

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Center drill set
10tlg. 0.75-4.5 mm HSS

Article number ▼
3203010

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Clamping block set for lathes
20-05

Article number ▼
3440654

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Collet chuck
5C - No. 8

Article number ▼
3441558

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Collet set
SPC 5C

Article number ▼
3441509

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Revolving centering point
MT 4

Article number ▼
3440734

OPTIMUM®
MASCHINEN - GERMANY



Revolving centering point
MT 4

Article number ▼
3451004

OPTIMUM®
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Leveling plate

SE 3

Article number ▼

3381018

OPTIMUM®
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Vibration damper machine foot

SE 85

Article number ▼

3352982

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