

## Precision guide and drawbar turning machine

### OPTiturn TH 4620D

**OPTIMUM**<sup>®</sup>  
MASCHINEN - GERMANY

Precision guide and traction spindle lathes - unique in precision and operation. With digital position indicator DPA 21 and quick-change steel holder

#### Article number ▼

3462130

#### Brand ▼

Optimum

#### Availability ▼

In stock

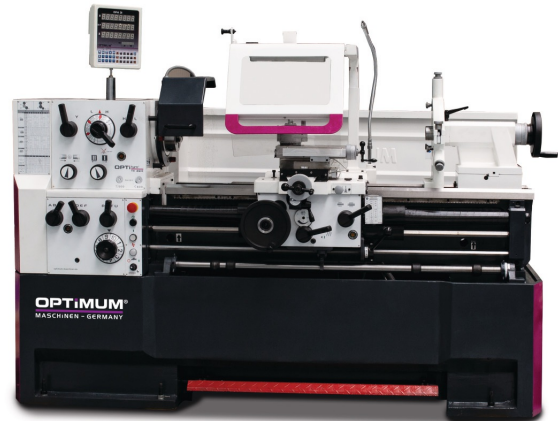
Availability on request

#### Catalog directory ▼

Metalworking machines » Lathes  
conventional » OPTiturn TH 4610D / TH  
4615D / TH 4620D

#### Purchase ▼

Minimum 1 pc(s).



#### Shipping informations ▼

Packaging Metrics		Weights		Delivery		Other	
Length	3,400 mm	Gross	2,295 kg	Delivery	Special transportation	DualUse	✘
Width	1,150 mm	Net	1,965 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  $\pm 10$  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

### from TH 4615:

- Wiring via energy chain

## Delivery content ▼

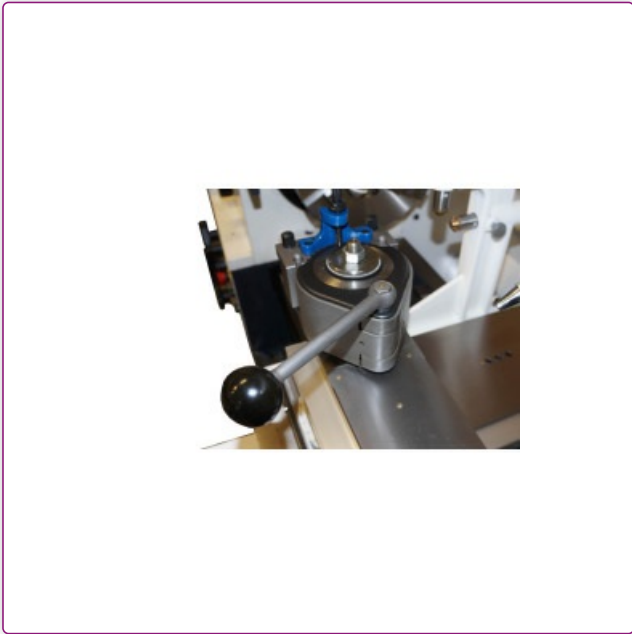
- Fixed bezel passage max.  $\varnothing$  160 mm
- Running bezel passage max.  $\varnothing$  100 mm
- LED machine light
- Reduction sleeve MK 6 / MK 4
- Fixed centering point MK 4
- Quick change steel holder 5-B
- Steel holder 25 x 120 type D for square chisels 20 mm
- Threading gauge
- Change gear set
- Initial machine filling with quality oil
- Operating tool

**Do not forget the lathe chuck!**

## Media informations ▼

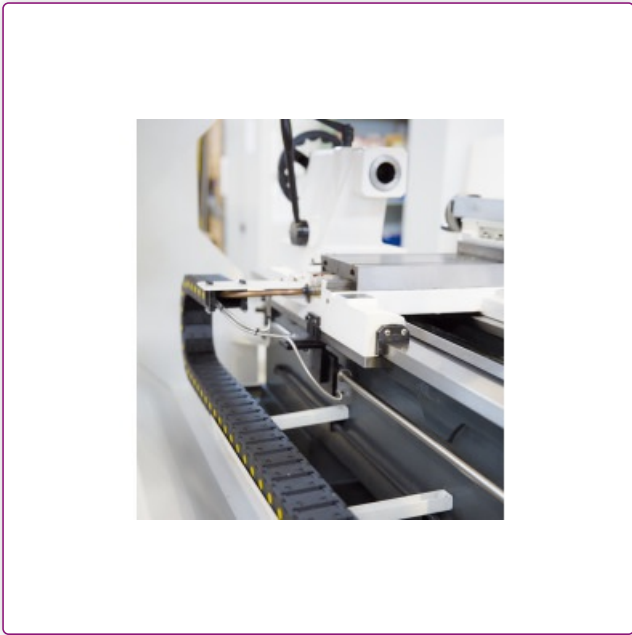


Figure shows OPTIturn TH 4615 with optional quality chuck from OPTIMUM



**Quick-change steel holder SWH 7-C**

- in standard scope of delivery
- Steel holder 32 x 130 type D for square chisel 25 mm



**Energy chain**

- for gentle cable and hose routing



**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.	3265 mm	Width/depth (product) approx.	1065 mm
Height (product) approx.	1550 mm	Net weight approx.	1965 kg
Work areas			
Max. height	230 mm	Max. width	2060 mm
Swing diameter above machine bed	460 mm	Swing diameter in bed bridge	690 mm
Swing diameter above planing slide	270 mm	Turning length in bed bridge	240 mm
Bed width	300 mm		
Speed range			
Number of gears	12	Speed range	25 – 2000 min <sup>-1</sup>
Electrical Data			
Drive motor output	5.5 kW	Supply voltage	400 V
Mains frequency	50 Hz		
Cooling lubricant system			
Cooling lubricant system coolant pump output	125 W		
Spindle			
Spindle chuck	Camlock DIN ISO 702-2 No. 6	Spindle bore/rod passage diameter	58 mm
Spindle cone	MT 6	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
<b>Travel</b>			
Travel upper slide	125 mm	Travel cross slide	285 mm
Travel carriage saddle	1805 mm		
<b>Feed</b>			
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
<b>Electrical connections</b>			
Total rated value	5.8 kW		

## Accessories




### Spare steel holder 25 x 120 type D

Article number   
3384306

**OPTIMUM**<sup>®</sup>  
MASCHINEN - GERMANY




### Spare steel holder 32 x 130 type H

Article number   
3384324

**OPTIMUM**<sup>®</sup>  
MASCHINEN - GERMANY




### Turning tool set HM 20 mm, 5-part

Article number   
3441670

**OPTIMUM**<sup>®</sup>  
MASCHINEN - GERMANY




### Turning tool set HM 20 mm, 5-part

Article number   
3441617

**OPTIMUM**<sup>®</sup>  
MASCHINEN - GERMANY



### Face plate Ø 350 mm Camlock DIN ISO 702-2 No. 6

Article number   
3442980

**OPTIMUM**<sup>®</sup>  
MASCHINEN - GERMANY



**Collet set**  
**SPC 5C**

**Article number** ▼  
3441509

**OPTIMUM**<sup>®</sup>  
MASCHINEN - GERMANY



**Collet chuck**  
**5C - No. 6**

**Article number** ▼  
3441556

**OPTIMUM**<sup>®</sup>  
MASCHINEN - GERMANY



**Position stop**

**Article number** ▼  
3444022

**OPTIMUM**<sup>®</sup>  
MASCHINEN - GERMANY



**OPTIMUM Three-jaw lathe chuck centre clamping**  
**Ø 250 mm Camlock DIN ISO 702-2 No. 6**

**Article number** ▼  
3442765

**OPTIMUM**<sup>®</sup>  
MASCHINEN - GERMANY



**OPTIMUM four-jaw lathe chuck Cast Camlock, centre clamping**  
**Ø 250 mm Camlock DIN ISO 702-2 No. 6**

**Article number** ▼  
3442852

**OPTIMUM**<sup>®</sup>  
MASCHINEN - GERMANY



**BISON three-jaw lathe chuck Camlock casting  
centre clamping**

Ø 250 mm Camlock DIN ISO 702-2 No. 6

**Article number** ▼  
3450330

**OPTIMUM**<sup>®</sup>  
MASCHINEN - GERMANY



**BISON four-jaw lathe chuck Cast Camlock  
centric exciting**

Ø 250 mm Camlock DIN ISO 702-2 No. 6

**Article number** ▼  
3450380

**OPTIMUM**<sup>®</sup>  
MASCHINEN - GERMANY



**Turning tool set  
HM 25 mm, 5-part**

**Article number** ▼  
3441672

**OPTIMUM**<sup>®</sup>  
MASCHINEN - GERMANY



**Turning tool set  
HM 25 mm, 5-part**  
With carbide inserts

**Article number** ▼  
3441623

**OPTIMUM**<sup>®</sup>  
MASCHINEN - GERMANY



**Internal turning set  
5-piece**

**Article number** ▼  
3441650

**OPTIMUM**<sup>®</sup>  
MASCHINEN - GERMANY



**Center drill set  
10tlg. 0.75-4.5 mm HSS**

**Article number** ▼  
3203010

**OPTIMUM**<sup>®</sup>  
MASCHINEN - GERMANY



**Clamping block set for lathes**  
**20-05**

**Article number** ▼  
3440654

**OPTIMUM**<sup>®</sup>  
MASCHINEN - GERMANY



**Revolving centering point**  
**MT 4**

**Article number** ▼  
3440704

**OPTIMUM**<sup>®</sup>  
MASCHINEN - GERMANY



**Revolving centering point**  
**MT 4**

**Article number** ▼  
3440734

**OPTIMUM**<sup>®</sup>  
MASCHINEN - GERMANY



**Revolving centering point**  
**MT 4**

**Article number** ▼  
3451004

**OPTIMUM**<sup>®</sup>  
MASCHINEN - GERMANY



**Vibration damper machine foot**  
**SE 85**

**Article number** ▼  
3352982

**OPTIMUM**<sup>®</sup>  
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**Leveling plate**  
**SE 3**

**Article number** ▼  
3381018

**OPTIMUM**<sup>®</sup>  
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