

Mechanics lathe

OPTIturn TH 4010V

Fully equipped mechanic lathes. Convincing in precision and performance. TH 4010D with digital position indicator DPA 21, TH 4010V additionally with Siemens inverter vario drive

Article number ▼

3402085

Brand ▼

Optimum

Catalog directory ▼

Metalworking machines » Lathes
conventional » OPTIturn TH 4010 /
TH 4010D / TH 4010V

OPTIMUM[®]
MASCHINEN - GERMANY



Shipping informations ▼

Packaging Metrics		Weights		Delivery		Other	
Length	n/a	Gross	820 kg	Delivery	Carrier	DualUse	✗
Width	n/a	Net	735 kg	Content	1 pc(s).	SCIP	n/a
Height	n/a					SVHC	No



Description ▼

- Hardened and ground Z-axis guideway
- Spindle mount Camlock DIN ISO 702-2 No. 5
- Precisely crafted sled
- Handwheels with adjustable fine scale 0.04 / 0.02 mm
- Quadruple tool holder
- All guides can be adjusted by wedge strips
- Adjustment range upper slide $\pm 90^\circ$
- Guaranteed concentricity of the spindle nose better than 0.015 mm
- Main spindle running in oil bath
- Gear wheels smooth, hardened and ground
- Gears and shafts hardened and ground, running in an oil bath in precision bearings
- 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
- DC 24 Volt - electrics
- Lockable main switch
- Right / left rotation on bed sled switchable
- Safety handwheels with release function in the X and Z axis
- 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
- Extractable chip tray with guide rails
- Emergency stop device with foot control
- Machine base with 3 panels (no compartments)
- Coolant system
- LED machine lamp in chip protection

TH 4010 / TH 4010D:

- Motor protection switch

TH 4010D / TH 4010V:

• Digital position indicator DPA21

- User-friendly membrane keypad, splash-proof, closed and glare-free
- Glass scales

TH 4010V:

- Siemens Sinamics Frequency Inverter / Safety Integrated
- Quick-change steel holder 3-E
- Steel holder 20 x 100 type D for square chisels

Delivery content ▼

- Fixed bezel passage $\varnothing 5 - 85$ mm
- Running bezel passage $\varnothing 5 - 65$ mm
- LED machine light
- Reduction sleeve MK 6 / MK 3
- Fixed centering points MK 3
- Fixed centering point MK 3, alloyed
- Change gear set
- Initial machine filling with quality oil
- operating tool

TH 4010 / TH 4010D

- Quadruple steel holder 16 mm

TH 4010V

- Quick-change steel holder 3-E
- Steel holder 20 x 100 type D for square chisels

Do not forget the lathe chuck!

Media informations ▼



Picture shows TH 4010V with optional lathe chuck



TH 4010V - Siemens G120D inverter

- Safety Integrated



Tailstock

- Tailstock for taper turning adjustable ± 10 mm
- Tailstock quill and handwheel with adjustable fine scaling 0.025 mm
- Quick, easy and tool-free adjustment by means of clamping lever



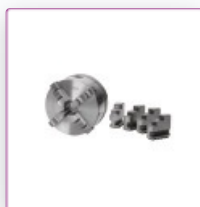
Dig. position indicator DPA 21

- User-friendly membrane keypad
- Significant reduction in production times
- Higher working accuracy
- Error rate is reduced

Technical data ▼

Dimensions and weights			
Length (product) approx.	1920 mm	Width/depth (product) approx.	740 mm
Height (product) approx.	1555 mm	Net weight approx.	780 kg
Work areas			
Max. height	205 mm	Max. width	1000 mm
Swing diameter above machine bed	410 mm	Swing diameter above planing slide	255 mm
Bed width	206 mm		
Speed range			
Speed control	electronically adjustable	Number of gears	2
Speed range	30 – 3000 min ⁻¹		
Electrical Data			
Drive motor output	4,0 kW	Supply voltage	400 V
Mains frequency	50 Hz		
Standards and certifications			
Standard	DIN EN 55011	EMC level	C3
Spindle			
Spindle chuck	Camlock DIN ISO 702-2 No. 5	Spindle bore/rod passage diameter	52 mm
Spindle cone	MT 6	Tool holder max. chuck height	16 mm
Tailstock			
Tailstock chuck	MK 3	Tailstock quill stroke	130 mm
Tailstock quill diameter	45 mm		
Pitches			
Metric pitch	0,4 – 7 mm/rev	Number of metric pitches	42
Imperial pitch	70 – 4 Gg/1"	Number of imperial pitches	42
Travel			
Travel upper slide	100 mm	Travel cross slide	195 mm
Travel carriage saddle	750 mm		
Feed			
Longitudinal feed range	0,043 – 0,653 mm/rev	Number of longitudinal feeds	48
Flat feed range	0,015 – 0,206 mm/rev	Number of flat feeds	48

Accessories ▼



**OPTIMUM four-jaw lathe chuck Cast Camlock,
centre clamping**
Ø 200 mm Camlock DIN ISO 702-2 No. 5

Article number ▼
3442845

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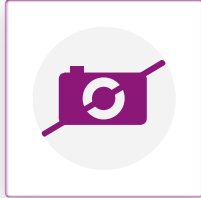
**OPTIMUM four-jaw lathe chuck Cast Camlock,
single clamping**

Ø 200 mm Camlock DIN ISO 702-2 No. 5

Article number ▼

3442880

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

Ø 200 mm Camlock DIN ISO 702-2 No. 5

Article number ▼

3450315

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

Ø 200 mm Camlock DIN ISO 702-2 No. 5

Article number ▼

3450365

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Quick change tool kit

SWH 3 - E

Repeat accuracy 0.01 mm

Article number ▼

3384303

OPTIMUM®
MASCHINEN - GERMANY



Factory assembly and adaptation

SWH

Article number ▼

9000400

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Spare steel holder

20 x 100 type D

Article number ▼

3384304

OPTIMUM®
MASCHINEN - GERMANY



Spare steel holder
30 x 100 type H

Article number ▼
3384322

OPTIMUM®
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Turning tool set
HM 20 mm, 5-part

Article number ▼
3441670

OPTIMUM®
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Turning tool set
HM 20 mm, 5-part

Article number ▼
3441617

OPTIMUM®
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Turning tool set
HM 16 mm, 5-part
With carbide inserts

Article number ▼
3441668

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Turning tool set
HM 16 mm, 5-part "Made in Germany"

Article number ▼
3441216

OPTIMUM®
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Turning tool set
HM 16 mm, 5-part

Article number ▼
3441610

OPTIMUM®
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Turning tool set
16 mm, 11 parts

Article number ▼
3441604

OPTIMUM®
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Internal turning set 5-piece

Article number ▼
3441650

OPTIMUM®
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Clamping block set for lathes 16-05

Article number ▼
3440653

OPTIMUM®
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Twist drill HSS with Morse taper MT 3

Article number ▼
3051003

OPTIMUM®
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Collet chuck 5C - No. 5

Article number ▼
3441555

OPTIMUM®
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Collet set SPC 5C

Article number ▼
3441509

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Revolving centering point MT 3

Article number ▼
3440703

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Revolving centering point MT 3

Article number ▼
3440733

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Revolving centering point

MT 3

Article number ▼

3451003

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Vibration damper machine foot

SE 85

Article number ▼

3352982

OPTIMUM®
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Leveling plate

SE 2

Article number ▼

3381016

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