

Precision Center and Turning Center Lathe

OPTiTurn TZ 4

Precision head and spindle lathes with digital position indicator NEWALL DP 700 and quick-change steel holder. TZ 4V with electronically controllable drive

OPTIMUM[®]
MASCHINEN - GERMANY

Article number ▼

3432240

Brand ▼

Optimum

Catalog directory ▼

Metalworking machines » Lathes
conventional » OPTiTurn TZ 4 / TZ 4V



Shipping informations ▼

Packaging Metrics		Weights		Delivery		Other	
Length	2,020 mm	Gross	1,400 kg	Delivery	Special transportation	DualUse	✘
Width	1,120 mm	Net	1,250 kg	Content	1 pc(s).	SCIP	n/a
Height	1,860 mm					SVHC	No



Description ▼

- Hardened and ground Z-axis guideway
- Partial covering with entrained, large-dimensioned chip protection
- Chip protection with integrated position indicator, coolant hose and additional control panel
- Plan and upper slide spindle is hardened and ground and adjustable via split spindle nut
- Guide and feed shaft cover
- Fine graded feed and thread cutting area
- LED machine lamp for complete illumination of the working area
- Energy chain for gentle line and hose routing
- Change wheels optionally also available for inch and module threads
- Control cabinet with 24 V DC power supply
- Switch with life cycle calculation tested according to EN ISO 13849
- Decoupled handwheels tested to EN 23125
- Two-channel right-left switch tested to EN 23125
- All contactors and relays from Siemens or Schneider
- Safety handwheels with release function in the X and Z axis
- Forward removable chip tray
- Quick change steel holder SWH 5-B
- Steel holder 25 x 120 type D for square chisel 20 mm
- **Digital position indicator NEWALL DP 700**

TZ4:

- Reduction of the deceleration time of the main spindle by electrically braked motor
- Motor protection switch

Delivery content ▼

- Fixed bezel passage Ø 10 - 130 mm
- Running bezel passage Ø 10 - 100 mm
- Reduction sleeve MK3 and MK6
- Fixed centering point MK3
- Quick change steel holder 5-B
- Steel holder 25 x 120 type D for square chisels
- Change wheels set for metric thread
- Initial machine filling with quality oil
- operating tool
- Integrated cooling device

Media informations ▼



Picture shows OPTiturn TZ 4 with optional lathe chuck



Control cabinet

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



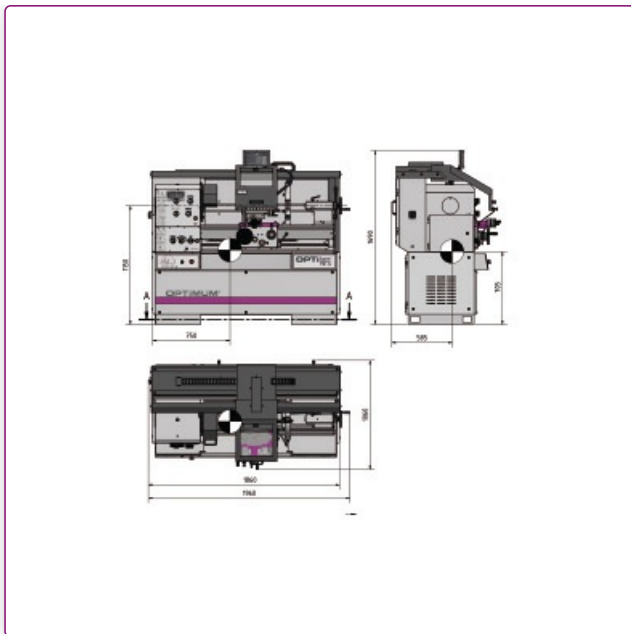
Centralized operation on the touch panel

- Switching lighting, coolant
- For switching for two-stage engine
- Membrane keyboard easy to clean



Bed geometry

- Shallow angle
- Higher power consumption



Technical data


Dimensions and weights			
Length (product) approx.	1960 mm	Width/depth (product) approx.	1060 mm
Height (product) approx.	1690 mm	Net weight approx.	1250 kg
Work areas			
Max. height	200 mm	Max. width	800 mm
Swing diameter above machine bed	400 mm	Swing diameter above planing slide	245 mm
Bed width	260 mm		
Speed range			
Number of gears	16	Speed range	45 – 1800 min ⁻¹
Electrical Data			
Drive motor output	3 / 4,5 kW	Supply voltage	400 V
Mains frequency	50 Hz		
Cooling lubricant system			
Cooling lubricant system coolant pump output	0.125 kW		
Spindle			
Spindle chuck	DIN ISO 702-1 No. 5 Form A2	Spindle bore/rod passage diameter	52 mm
Spindle cone	MT 6	Chuck passage diameter	52 mm
Tailstock			
Tailstock chuck	MK 3	Tailstock quill stroke	110 mm
Tailstock quill diameter	50 mm		
Pitches			
Metric pitch	0,2 – 14 mm/rev	Number of metric pitches	26
Imperial pitch	80 – 1 Gg/1"	Number of imperial pitches	42
Diametrical pitch	3 – 200 Gg/π	Number of diametrical pitches	33
Modular thread pitch	0,1 – 7 mm/rev	Number of modular thread pitches	44
Travel			
Travel upper slide	112 mm	Travel cross slide	212 mm
Travel carriage saddle	800 mm		
Feed			

Longitudinal feed range	0,0263 – 1,8416 mm/rev	Number of longitudinal feeds	48
Flat feed range	0,0133 – 0,9321 mm/rev	Number of flat feeds	48
Electrical connections			
Total rated value	6 kW		

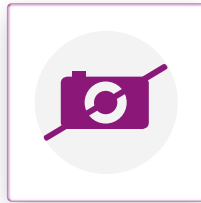
Accessories




Four-jaw lathe chuck cast BISON Ø 250 mm DIN 6350 A2-5

Article number 
3450216

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Chuck flange Ø 250 mm for three- and four-jaw chucks A2-5

Article number 
3450218

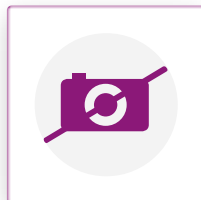
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Three-jaw lathe chuck cast BISON Ø 200 mm DIN 6350 A2-5

Article number 
3450210

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Chuck flange Ø 200 mm A2-5

Article number 
3450212

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Face plate Ø 320 mm Camlock DIN ISO 702-2 No. 5

Article number 
3442979

OPTIMUM[®]
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Chuck flange BISON 160 mm

Article number 
3450246

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Collet chuck

16C

Manually operated chuck for distortion-free clamping of workpieces

Article number ▼

3450245

OPTIMUM®
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Turning tool set

HM 20 mm, 5-part

Article number ▼

3441617

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Change gear set

for inch and module threads

Article number ▼

3444160

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Turning tool set

HM 20 mm, 5-part

Article number ▼

3441670

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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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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 5

Article number ▼

3451005

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Leveling plate

SE 1

Article number ▼

3381012

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Vibration damper machine foot

SE 55

Article number ▼

3352981

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