

Precision feed and lead screw spindle lathes with digital position display DPA 32 and quick change tool holder



Facts that impress in terms of quality, performance and price

- ▶ Hardened and ground z-axis guideway
- ▶ Motor circuit switch
- ▶ Control cabinet with 24-V DC power supply
- ▶ Partly clad with travelling, generously dimensioned chip guard
- ▶ Travelling swarf guard with integrated position display, coolant hose and additional control panel
- ▶ Two-channel safety electronics
- ▶ Plane und top slide spindle hardened and scraped, adjustable via split spindle nut
- ▶ Feed and lead screw cover
- ▶ Granular feed and tapping range
- ▶ Energy chain for material-friendly cable and hose guiding
- ▶ The default gear wheels for metric thread pitches and modular threads are already mounted in the machine. Interchangeable gears available as option for imperial and D.P threads
- ▶ Switch with lifecycle calculation, approved in line with EN ISO 13849
- ▶ Decoupled hand wheels approved in line with EN 23125
- ▶ Safety hand wheels with release function in the X and Z axis
- ▶ Chip tray pulls out to front
- ▶ Coolant system
- ▶ Quick change tool holder SWH 5-B
- ▶ Tool holder 25 x 120 type D for square chisels 20 mm
- ▶ LED machine light for complete elimination of the workspace



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Information & Video



Fig.: TZ 4 with optional lathe chuck

Arguments,...



CONTROL CABINET

- › 24 Volt DC power supply
- › All contactors und relays by **SIEMENS** or Schneider



DIGITAL POSITION DISPLAY DPA 32

- › LED display
- › User-friendly membrane keyboard,
- › splash-proof, closed and glare-free
- › Greater operation accuracy
- › Clear reduction of manufacturing times
- › Reduction of error quota
- › X, Y/Z0, Z axis each with 8-digit display
- › Three evaluable measurement inputs, each with seven correction memories for tools



TOUCH PANEL CENTRALISED CONTROL

- › For switching Lighting and coolant
- › Switching for two-stage motor
- › Foil keypad, easily cleanable



BED GEOMETRY

- › Flat angle
- › Higher force absorption

Technical specifications, accessories and dimensions

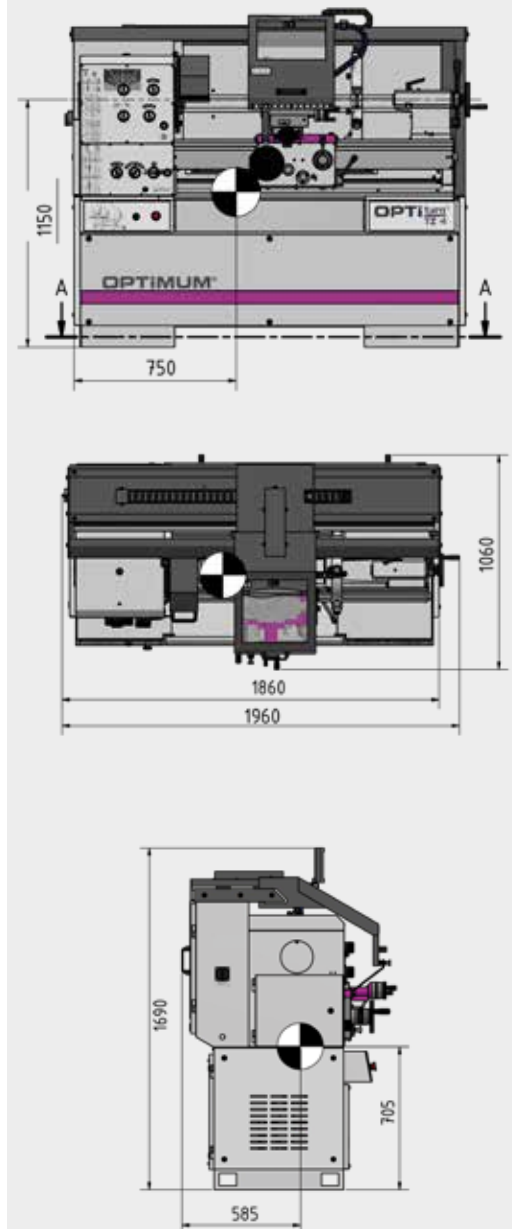
Model	TZ 4
Article no.	3432242
Output	
Electrical connection	400 V / 3 Ph ~50 Hz
Total rated value	6 kW
Coolant pump motor	125 Watts
Spindle	
Drive motor	3 kW / 4.5 kW
Spindle taper	MT6
Spindle seat	DIN ISO 702-1 No. 5 form A2
Spindle hole, bar passage diameter	Ø 52 mm
Quick change tool holder	SWH 5-B
Work area	
Centre height	200 mm
Centre width	800 mm
Swing Ø above machine bed ²⁾	400 mm
Swing Ø above cross slide	245 mm
Bed width	260 mm
Speed range	
Spindle speed	45 - 1800 min ⁻¹
Number of speeds	16 stages
Traverse paths	
Top slide	112 mm
Cross slide	212 mm
Bed slide	800 mm
Feeds and pitches	
Longitudinal feed within the range	0.026 - 1.84 mm/rev (48 feeds)
Cross feed within	0.013 - 0.93 mm/rev (48 feeds)
Pitch - metric in range	0.2 - 14 mm/rev (26 pitches)
Pitch - inch in range (Interchangeable gear set accessory art. no. 3444160)	80 - 1 turns/inch (42 pitches)
Modular thread in range	0.1 - 7 mm x π (44 threads)
Diametral pitch in range (Interchangeable gear set accessory art. no. 3444160)	200 - 3 turns/ π(33 pitches)
Tailstock	
Tailstock seat	MT3
Sleeve diameter / travel	Ø 50 mm / 110 mm
Dimensions and weight	
Dimensions (L x W x H) approx.	1960 x 1060 x 1690 mm
Net weight approx.	1250 kg

Accessories

Lathe chuck no. 5 form A2	Article no.
BISON four-jaw lathe chuck Ø 250 mm cast iron, centric clamping (chuck flange 3450218 is required)	3450216
Chuck flange for mounting the Ø 250 mm lathe chuck	3450218
BISON three-jaw lathe chuck Ø 200 mm cast, centric clamping (chuck flange 3450212 is required)	3450210
Chuck flange for mounting the Ø 200 mm lathe chuck	3450212
Accessories	
Turning tool set Carbide 20 mm, 5-piece (from page 247)	3441617
Interchangeable gear set for imperial and D.P thread	3444160
Precision machine shoe SEU1 (8 pcs. required)	3352985
BISON chuck flange Lathe chuck Ø 160 mm (requires chuck collet chuck 3450245)	3450246
BISON collet chuck 16C - Ø 160 mm (requires chuck flange 3450246)	3450245
Clamping disc Ø 320 mm no. 5 form A2	3442979

More accessories and information about accessories from page 237 onwards

Dimensions



Scope of delivery

**Lathe chuck
Do not forget!**

- › Fixed steady rest, passageway Ø 10 - Ø 130 mm
- › Follow steady rest, passageway Ø 10 - Ø 100 mm
- › Adapter MT 6-MT 3
- › Non-rotating centring tip MT3
- › Non-rotating, but temperature resistant centring tip MT 3
- › Quick change tool holder SWH 5-B
- › Tool holder 25 x 120 type D for square chisels 20 mm
- › Machine initially filled with premium grade oil
- › Operating tool

²⁾ General information on operating our machines on page 333

Precision feed and lead spindle lathe with electronically controlled drive and digital position display DPA 32

Facts that impress in terms of quality, performance and price

- ▶ Hardened and ground z-axis guideway
- ▶ Motor circuit switch
- ▶ Control cabinet with 24-V DC power supply
- ▶ Partly clad with travelling, generously dimensioned chip guard
- ▶ Travelling swarf guard with integrated position display, coolant hose and additional control panel
- ▶ Two-channel safety electronics
- ▶ Safety hand wheels with release function in the X and Z axis
- ▶ Plane und top slide spindle hardened and scraped, adjustable via split spindle nut
- ▶ Electrically braked motor
- ▶ Feed and lead screw cover
- ▶ Granular feed and tapping range
- ▶ Energy chain for material-friendly cable and hose guiding
- ▶ The default gear wheels for metric thread pitches and modular threads are already mounted in the machine. Interchangeable gears available as option for imperial and D.P threads
- ▶ Switch with lifecycle calculation, approved in line with EN ISO 13849
- ▶ Decoupled hand wheels approved in line with EN 23125
- ▶ Reduction of the main spindle braking time thanks to energy recuperation
- ▶ Chip tray pulls out to front
- ▶ Coolant system
- ▶ Position measuring system on the Z-axis
- ▶ Magnetic tape system on the X and Zo axes
- ▶ Quick change tool holder SWH 5-B
- ▶ Tool holder 25 x 120 type D for square chisels 20 mm
- ▶ LED machine light for complete elimination of the workspace



Arguments,...

Made in EU



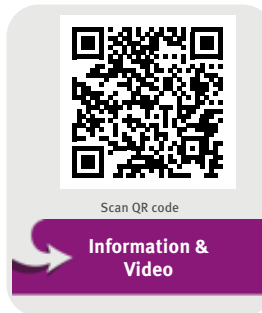
SIEMENS SINAMICS INVERTER G120D

› More information on page 190



DIG. DIGITAL POSITION INDICATOR DPA 32 WITH CUTTING CONSTANT VSC

- › LED display
- › User-friendly membrane keyboard,
- › splash-proof, closed and glare-free
- › Greater operation accuracy
- › Clear reduction of manufacturing times
- › Reduction of error quota
- › X, Y/Z0, Z axis each with 8-digit display
- › Three evaluable measurement inputs, each with seven correction memories for tools



TZ 4V
CUTTING CONSTANT VSC



Fig.: TZ 4V with optional lathe chuck



TOUCH PANEL CENTRALISED CONTROL

- › For switching Lighting and coolant
- › Foil keypad, easily cleanable



BED GEOMETRY

- › Flat angle
- › Higher force absorption

Technical specifications, accessories and dimensions

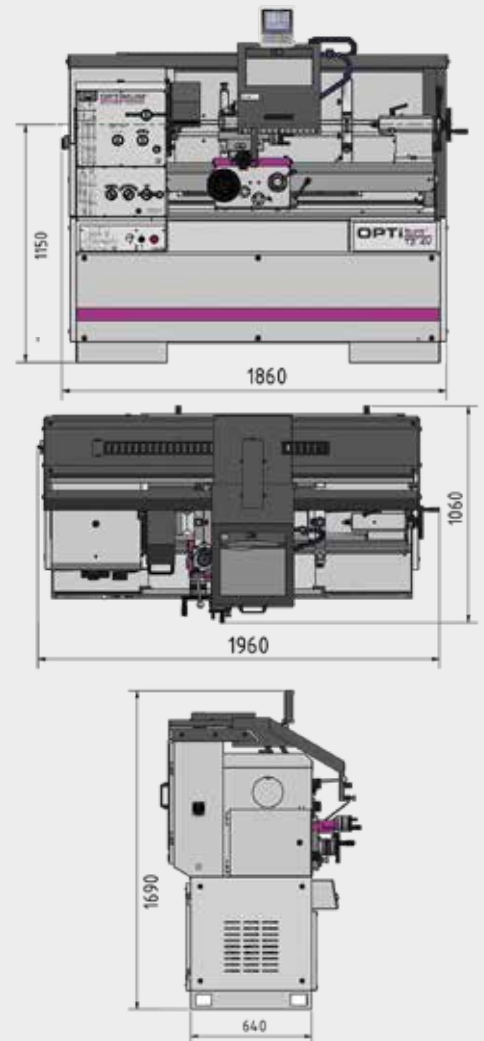
Model	TZ 4V
Article no.	3432247
Output	
Electrical connection	400 V / 3 Ph ~50 Hz
Total rated value	6 kW
Coolant pump motor	125 Watts
Spindle	
Drive motor	5.5 kW
Spindle taper	MT6
Spindle seat	DIN ISO 702- 1 No. 5 form A2
Spindle hole, bar passage diameter	Ø 52 mm
Quick change tool holder	SWH 5-B
Work area	
Centre height	200 mm
Centre width	800 mm
Swing Ø above machine bed ⁽²⁾	400 mm
Swing Ø above cross slide	245 mm
Bed width	260 mm
Speed range	
Spindle speed	50 - 3000 min ⁻¹
Number of speeds	2 speed, electrically controlled
Traverse paths	
Top slide	112 mm
Cross slide	212 mm
Bed slide	800 mm
Feeds and pitches	
Longitudinal feed within the range	0.0263 - 1.8416 mm/rev (48 feeds)
Cross feed within	0.0133 - 0.9321 mm/rev (48 feeds)
Pitch - metric in range	0.2 - 14 mm/rev (26 pitches)
Pitch - inch in range (Interchangeable gear set accessory art. no. 3444160)	80 - 1 turns/inch (42 pitches)
Modular thread in range	0.1 - 7mm x π (44 threads)
Diametral pitch in range (Interchangeable gear set accessory art. no. 3444160)	200 - 3 turns/ π(33 pitches)
Tailstock	
Tailstock seat	MT3
Sleeve diameter / travel	Ø 50 mm / 110 mm
Dimensions and weight	
Dimensions (L x W x H) approx.	1960 x 1060 x 1690 mm
Net weight approx.	1250 kg

Accessories

Lathe chuck no. 5 form A2	Article no.
BISON four-jaw lathe chuck Ø 250 mm, steel centrally clamping (chuck flange 3450218 required)	3450217
Chuck flange for mounting the Ø 250 mm lathe chuck	3450218
BISON Three-jaw lathe chuck Ø 200 mm, cast Centrally clamping(chuck flange 3450212 required)	3450210
Chuck flange for mounting the Ø 200 mm lathe chuck	3450212
Accessories	Article no.
Turning tool set Carbide 20 mm, 5-part (from page 247)	3441617
Interchangeable gear set for imperial and D.P thread	3444160
Precision machine shoe SEU1 (8 pcs. required)	3352985
BISON Lathe chuck flange Ø 160 mm (requires chuck collet chuck 3450245)	3450246
BISON collet chuck 16C - Ø 160 mm (requires chuck flange 3450246)	3450245
Clamping disc Ø 320 mm no. 5 form A2	3442979

More accessories and information about accessories from page 237 onwards

Dimensions



Our recommendation

cleancraft
flexCAT 378 EOT-PRO
Article no. 7003380



Scope of delivery

**Lathe chuck
Do not forget!**

- > Fixed steady rest, passageway Ø 10 - Ø 130 mm
- > Follow steady rest, passageway Ø 10 - Ø 100 mm
- > Adapter MT6-MT3
- > Non-rotating centring tip MT3
- > Non-rotating, but temperature resistant centring tip MT3
- > Quick change tool holder SWH 5-B
- > Tool holder 25 x 120 type D for square chisels 20 mm
- > Machine initially filled with premium grade oil
- > Operating tool