

## Precision guide and drawbar turning machine

### OPTIturn TX 6222

Precision master and spindle lathes meet the highest requirements in terms of technical equipment and precision. With digital position indicator NEWALL DP 700

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

#### Article number ▼

3432460

#### Brand ▼

Optimum

#### Catalog directory ▼

Metalworking machines » Lathes  
conventional » OPTIturn TX 5216 / TX 6222



#### Shipping informations ▼

Packaging Metrics		Weights		Delivery		Other	
Length	2,124 mm	Gross	2,905 kg	Delivery	Special transportation	DualUse	✘
Width	3,580 mm	Net	2,800 kg	Content	1 pc(s).	SCIP	n/a
Height	1,400 mm					SVHC	No



## Description ▼

- Machine bed made of heavily ribbed cast iron
  - One-piece machine base made of steel
  - High stiffness of the headstock housing due to heavily ribbed 25GG casting
  - All gears of the feed gear made of steel, hardened and ground
  - Waves on needle bearings, all components are lubricated in an oil bath
  - Hardened and ground spindle ensures tremendous accuracy and durability
  - Due to the high cutting performance, a high chip removal during roughing is no problem
  - Service-friendly removable rear panel
  - Energy chain for gentle line and hose routing
  - Lockable chip protection moves with the bed slide with integrated position indicator and coolant hose, manually displaceable
  - Decoupled handwheels tested to EN 23125
  - Two-channel right-left switch tested to EN 23125
  - No change wheels needed
  - Switch with life cycle calculation tested according to EN ISO 13849
  - With safety device against simultaneous operation of threading and feed mechanism
  - Bed guides hardened and precision ground
  - Electronically braked engine
  - Electronic feed shutdown of the Z axis
  - All electronic controls to reach centrally
  - Complete illumination of the workspace
  - External coolant tank with level indicator and oil separator
  - Complete guide and tension spindle cover
  - Electrical position switch off with quadruple position stop
  - 3-jaw lathe chuck in the standard scope of delivery
  - Quick change steel holder SWH 7-C
  - 1 steel holder 32 x 130 type D for square chisel 25 mm
- **Digital Position Display DP700** (For more information see "NEWALL-DP700")

### TX 5216

- Large spindle bore Ø 80 mm

### TX 6222:

- Large spindle bore Ø 105 mm

## Delivery content ▼

- Three jaw chucks
- Reduction sleeve MK 7 / MK 5
- Fixed center point MK 5 long
- Fixed centering point MK 5 short
- Quick change steel holder SWH 5-B (TX 5216)
- Quick change steel holder SWH 7-C (TX 6222)
- Steel holder 25 x 120 type D for square chisels
- operating tool

## Media informations ▼



Picture shows TX 5216 with optional lathe chuck



**Control cabinet**

- 24 Volt DC power supply
- All contactors and relays from SIEMENS or Schneider



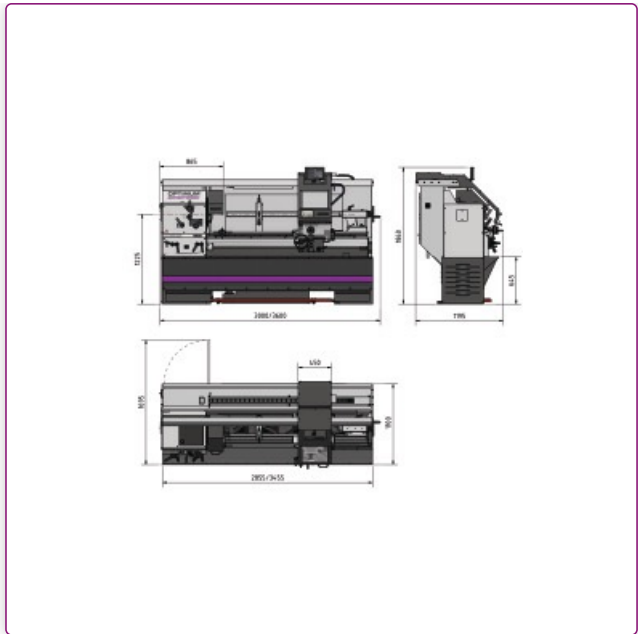
**Digital position indicator DP 700**

- The operator works on an intuitive and user-friendly user interface
- Clear LED displays
- Sturdy cast housing
- Durable membrane keypad



**Centralized operation via touch panel**

- Feed cut-off by pressing a button
- Drive train spindle
- Rapid traverse X and Z axis
- machine light
- coolant



### Quick-change toolholder SWH 7-C

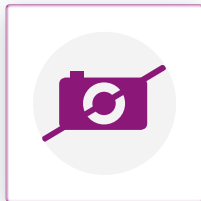
- Included in delivery
- Steel holder 32 x 130 type D for square chisel 25 mm

### Technical data ▼

Dimensions and weights			
Length (product) approx.	3550 mm	Width/depth (product) approx.	1200 mm
Height (product) approx.	1830 mm	Net weight approx.	2800 kg
Work areas			
Max. height	310 mm	Max. width	2200 mm
Swing diameter above machine bed	620 mm	Swing diameter above planing slide	424 mm
Turning length in bed bridge	880 mm	Bed width	350 mm
Speed range			
Number of gears	12	Speed range	40 – 1650 min <sup>-1</sup>
Electrical Data			
Drive motor output	7,5 kW	Supply voltage	400 V
Mains frequency	50 Hz		
Cooling lubricant system			
Cooling lubricant system coolant pump output	100 W		
Spindle			
Spindle chuck	Camlock DIN ISO 702-2 No. 8	Spindle bore/rod passage diameter	105 mm
Spindle cone	Ø 113 (cone 1:20) mm		
Tailstock			
Tailstock chuck	MT5	Tailstock quill stroke	180 mm
Tailstock quill diameter	72 mm		
Pitches			
Metric pitch	0,5 - 15 mm/rev	Number of metric pitches	55
Imperial pitch	60 – 2 Gg/1"	Number of imperial pitches	55
Diametrical pitch	120 – 4 Gg/π	Number of diametrical pitches	55

Modular thread pitch	0,25 – 7,5 mm x π	Number of modular thread pitches	55
<b>Travel</b>			
Travel upper slide	170 mm	Travel cross slide	350 mm
Travel carriage saddle	2000 mm		
<b>Feed</b>			
Longitudinal feed range	0,05 – 1,5 mm/rev	Number of longitudinal feeds	55
Flat feed range	0,025 – 0,75 mm/rev	Number of flat feeds	55
<b>Electrical connections</b>			
Total rated value	8.5 kW		

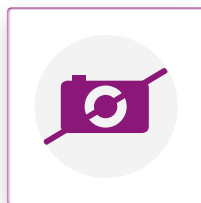
## Accessories ▼



### Rotating bezel passage 15 - 125 mm for TX 6222

Article number ▼  
3438030

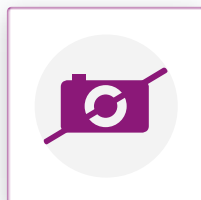
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### Fixed bezel passage 10 - 185 mm for TX 6222

Article number ▼  
3438033

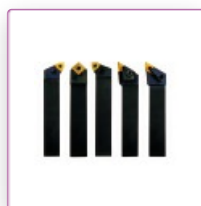
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### Fixed bezel passage 160 - 285 mm for TX 6222

Article number ▼  
3438034

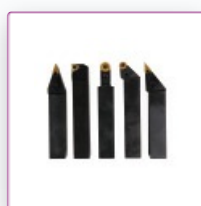
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### Turning tool set HM 25 mm, 5-part

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

Article number ▼  
3442982

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**Revolving centering point**  
MT 5

Article number ▼  
3440705

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**Revolving centering point**  
MT 5

Article number ▼  
3451005

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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 3**

**Article number** ▼  
3440733

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

**Article number** ▼  
3352982

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**Leveling plate**  
**SE 2**

**Article number** ▼  
3381016

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