

# Conventional Horizontal Lathes Servoturn 500/2000



# PRODUCT.BROCHURE.SKU: 300833

The Servoturn series of universal lathes combines the most modern feed technology with classic mechanical engineering. In contrast to standard conventional lathes, this series has ball screw drives and electronic hand wheels on all axes. High-torque servo motors implement every feed movement with the dynamics of modern CNC machines. Without gear change wheels and gears, feed and thread pitches can be selected electronically. Rapid traverses on all axes reduce non-productive time and electronic stops offer high repeat accuracy.

- Servo-feed system
- Preloaded ball screws on all axes
- Electronic hand-wheels
- Position indicator with V-constant feature
- Quick change tool holder

## PRODUCT.BROCHURE.TECHNICAL\_SPECS

#### ATTRIBUTES.MEG-000008.DESCRIPTION

attributes.MEG- 000008.MER-001279	1950 mm
attributes.MEG- 000008.MER-000063	500 mm
attributes.MEG- 000008.MER-000065	300 mm
attributes.MEG- 000008.MER-000047	400 mm

#### ATTRIBUTES.MEG-000059.DESCRIPTION

attributes.MEG- 000059.MER-000287	250 mm	
attributes.MEG- 000059.MER-000289	1880 mm	
attributes.MEG- 000059.MER-000334	100 mm	

#### ATTRIBUTES.MEG-000007.DESCRIPTION

attributes.MEG- 000007.MER-000253	30 1/min - 1600 1/min
attributes.MEG- 000007.MER-000251	86 mm
attributes.MEG- 000007.MER-000259	A2-8
attributes.MEG- 000007.MER-000066	250 mm

#### ATTRIBUTES.MEG-000060.DESCRIPTION

attributes.MEG- 000060.MER-001888	4 m/min	
attributes.MEG- 000060.MER-001889	4 m/min	

#### ATTRIBUTES.MEG-000006.DESCRIPTION

attributes.MEG- 000006.MER-000293	0.01 mm/R - 2 mm/R
attributes.MEG- 000006.MER-000295	0.01 mm/R - 2 mm/R

#### ATTRIBUTES.MEG-000005.DESCRIPTION

attributes.MEG- 000005.MER-000113	0,35-14 mm	
attributes.MEG- 000005.MER-000748	48-4 TPI	

#### ATTRIBUTES.MEG-000009.DESCRIPTION

attributes.MEG- 000009.MER-000749	75 mm
attributes.MEG- 000009.MER-000194	5 MT
attributes.MEG- 000009.MER-000196	150 mm

#### ATTRIBUTES.MEG-000002.DESCRIPTION

attributes.MEG- 000002.MER-000159	6 kW - 9 kW
attributes.MEG- 000002.MER-000167	1.5 kW
attributes.MEG- 000002.MER-000168	2.3 kW
attributes.MEG- 000002.MER-000290	400 V

#### ATTRIBUTES.MEG-000004.DESCRIPTION

attributes.MEG- 000004.MER-000002- height	4.25 m x 1.28 m x 1.65 m
attributes.MEG- 000004.MER-000108	3450 kg



Micro-control via electronic hand-wheels but handling and positioning just as with a conventional machine









## PRODUCT.BROCHURE.PRODUCT\_DETAILS

• The combination of a tried and tested machine base with the most advanced feed technology makes the change to a servo-conventional lathe even more attractive and cost-effective

#### Intuitive operation as we know it from conventional machines - only much better:

- Feed and thread leads can be selected via rotary switch what a brilliant concept
- Stops can be set electronically with the push of a button
- Feeds are infinitely variable via override potentiometer finally available on a conventional lathe
- Micro-control via electronic hand-wheels but handling and positioning just as with a conventional machine
- Axes are powered by high-quality servo drives that translate your hand movements with the precision and dynamics of modern CNC machines
- Infinitely variable speed adjustment and constant cutting speed of headstock
- Constant cutting speed: During face turning, the spindle speed automatically adapts to the changing workpiece diameter the constant cutting speed at the cutting edge of the turning tool ensures superior turning results with quality comparable to CNC lathes

#### **Machine Frame**

- Heavy ribbed machine bed with wide, hardened bed guides and V-blocks allow for heavy-duty machining
- Headstock and main spindle are designed for optimum rigidity, vibration damping and temperature balance
- This entire series also features large spindle bores
- A quick-action tool changer is included in the standard package and ensures maximum flexibility and productivity

#### Feed

• Ball screws on the X- and Z-axes ensure considerably fewer errors due to looseness (backlash), resulting in significantly higher precision

#### Equipment

- The low-maintenance machine is equipped with a central lubrication system
- The heavy-duty tailstock is easy to handle and features high clamping force
- Incl. 3-axis position indicator with integrated spindle speed display, fully assembled
- The Servoturn 500 standard equipment package includes a quick-change tool holder set type WB, and the Servoturn 660 models come with the larger type WC tool holder set

### PRODUCT.BROCHURE.STANDARD\_EQUIPMENT

3-axis position indicator X.Pos 3.2 3-jaw chuck Ø 250 mm Work lamp Operating tools Operator instructions Steady rest Coolant system Quick change tool holder Follow rest Electronic hand-wheels Fixed splash guard (wall) Traveling cover for the toolpost



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