

# Conventional Vertical Milling Machines Servomill® UWF 1400



#### PRODUCT.BROCHURE.SKU: 301292

The versatile Servomill UWF with servoconventional feed technology and on two levels swiveling cutter head is the top model of the Universal Milling Machine series. This series features an extra large work area and more powerful main spindle drives. Electronic stops, electronic hand wheels and additional milling functions give the Servomill many of the advantages of the CNC series production technology even without programming. These machines are mainly used in tool making, manufacturing and training.

- Large work area
- Servo-conventional feed technology
- Preloaded ball screws on all axes
- Electronic hand-wheels
- Universal cutter head with 2 swivel
- Infinitely variable spindle speed

#### PRODUCT.BROCHURE.TECHNICAL\_SPECS

#### ATTRIBUTES.MEG-000008.DESCRIPTION

attributes.MEG- 000008.MER-000354	2000 mm x 500 mm
attributes.MEG- 000008.MER-000358	1800 kg
attributes.MEG- 000008.MER-000020	5 positions
attributes.MEG- 000008.MER-000344	18 mm
attributes.MEG- 000008.MER-000005	80 mm

#### ATTRIBUTES.MEG-000059.DESCRIPTION

attributes.MEG- 000059.MER-000287	1400 mm
attributes.MEG- 000059.MER-000288	700 mm
attributes.MEG- 000059.MER-000289	500 mm

#### ATTRIBUTES.MEG-000034.DESCRIPTION

attributes.MEG- 000034.MER-001250	30-390 / 390-2050 1/min
attributes.MEG- 000034.MER-000944	SK 50 DIN 2080
attributes.MEG- 000034.MER-000233	360°
attributes.MEG- 000034.MER-000360	50 mm - 550 mm

#### ATTRIBUTES.MEG-000060.DESCRIPTION

attributes.MEG- 000060.MER-000083	2200 mm/min
attributes.MEG- 000060.MER-000084	2200 mm/min
attributes.MEG- 000060.MER-000085	1100 mm/min

#### ATTRIBUTES.MEG-000006.DESCRIPTION

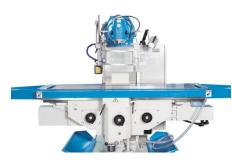
attributes.MEG-	10 mm/min - 1000
000006.MER-000298	mm/min
attributes.MEG-	10 mm/min - 1000
000006.MER-000300	mm/min
attributes.MEG- 000006.MER-000302	5 mm/min - 500 mm/min

#### ATTRIBUTES.MEG-000002.DESCRIPTION

attributes.MEG- 000002.MER-000159	11 kW
attributes.MEG- 000002.MER-000705	3.6 kW
attributes.MEG- 000002.MER-000815	3.6 kW
attributes.MEG- 000002.MER-000706	5.5 kW
attributes.MEG- 000002.MER-000163	0.13 kW

#### ATTRIBUTES.MEG-000004.DESCRIPTION

attributes.MEG- 000004.MER-000002- height	3.25 m x 2.5 m x 2.2 m
attributes.MEG- 000004.MER-000108	4500 kg







### PRODUCT.BROCHURE.PRODUCT DETAILS

#### Integrated electronics allow for easier, more precise and more efficient conventional milling

- Servomill machines represent a new generation of conventional milling machines
- All Servomill models feature a user-friendly design, significantly higher precision and increased productivity
- Very high reliability and long service life of all components ensure drastically reduced maintenance and increased availability
- The Servomill UWF series machine frame features a very sturdy and torsionally rigid construction with knee-and-column design
- A large setup area and long travels result in a large work area despite the compact overall dimensions
- The console is supported by an additional guide system for increased table load
- The work table moves on the X axis in a large dimensioned dovetail guide, which features excellent damping properties and can be adjusted with very high precision
- The box ways have wide support bases for increased load capacity and maximum dimensional stability while guiding console and top beam
- All guides are hardened and ground, and lubricated via a central lubrication system
- The complete drive is integrated in the heavy top beam that positions the cutter head
- This design ensures efficient power transmission with quiet, low vibration operation and features a very long Y axis travel Another highlight of this series is the universal cutter head that swivels on 2 axes
- Cutter spindle can be moved to virtually any spatial angle and quickly moved to the horizontal plane
- The robust 2-step gears are hardened and ground and feature an infinitely variable wide speed range, high load capacity, and quiet operation
- Powerful servo motors allow infinitely variable feed speeds and rapid feeds on all axes
- Preloaded ball screws on all axes ensure precise, jolt- and backlash-free positioning with minimal wear for a long tool life
- The machines' standard equipment includes extensive accessories, including a powerful coolant system, LED work lamps, and a wide selection of operating tools

#### Servomill - Highlights

- Electronics developed and built in Germany
- Positioning control for traveling pre-selected paths on all axes
- Zero backlash preloaded ball screws
- Servo-motors on all axes, infinitely variable feed, rapid feed, and speed control
- Electronic spindle load indicator
- Electronic hand-wheels on all axes
- X, Y and Z axis movement via joystick technology
- Integrated position indicator with precision glass scale
- Feed can be synchronized with the spindle speed
- Powerful servo motors allow infinitely variable feed speeds and rapid feeds on all axes

#### **Your Advantages:**

- Easy to use: intuitive operation practical layout of control elements and streamlined
- Automatic feed on all axes and infinitely variable rapid feed
- With speeds up to 5000 mm/min
- Set limit stops on any axis with the push of a button 3 stop positions per axis can be
- More precise: operated via electronic hand-wheels axes are powered by high-quality servo drives that translate your hand movements with the precision and dynamics of modern CNC machines
- More reliable: drives, spindles, and measuring systems are totally enclosed or mounted in protective enclosures and virtually maintenance-free
- Electronics made in Germany
- More capacity: this machine only uses premium drive components that are designed for continuous operation
- Maintenance-free: no regular maintenance needed for the entire feed drive
- Advanced Feed Technology:
- Axes are powered by high-quality servo drives that translate your hand movements with the precision and dynamics of modern CNC machines
- Reliable, maintenance-free mass production technology
- High rapid feed rate for reduced machine down-times
- Ball screw drive on all axes:
- Considerably less errors due to loseness (backlash), resulting in significantly higher
- Significantly reduced friction, no stick-slip effect, reduced heat buildup, minimal wear
- Electronic hand-wheels:

- Micro-control via electronic hand-wheels offering the same handling and postioning as with a conventional machine, just smoother and more precise
- Joystick control:
- Maximum operator comfort for axis movements
- Easy handling during sequential processing
- Electronically controlled fixed stops:
- Set 2 limit stops at 3 positions on each axis by the push of a button these buttons are grouped around the feed switch for intuitive control
- This ensures high repeatability during coordinate drilling or pocket cutting, and significantly more positions can be set up than on conventional machines
- Electronic spindle load indicator:
- Assists the operator in the most efficient utilization of machine and tool capacities
- Reliable indicator helps avoid damages caused by overloads

#### **Position indicator X.pos 3.2**

- The new generation of displays is more powerful, robust, and reliable
- For additional information, see manuals included with the standard equipment

### PRODUCT.BROCHURE.STANDARD\_EQUIPMENT

Control panel with X.Pos 3.2 and extended functions Ball screw drives and servo direct drives in all axes Automatic feed with electric limit switches in all axes Electronic handwheels Accessories for milling Automatic central lubrication Heat exchanger for electrical control cabinet Protection shield Coolant system LED work light Operating tool Operator instructions



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Are you interested in a machine for which you cannot find a current video? Please feel free to contact us!