

YCM



High Efficiency CNC Turn-Mill Center

BTX 250SY

Designed with 10" chuck, sub spindle, Y-axis and BMT65 turret with live tooling, BTX 250SY is best suited for complex part machining and heavy duty cutting in just one single setup. It can help minimize production cost, boost productivity and enhance efficiency.

Reinforced Base Structure

- One-piece 30° slant bed design made from high quality MEEHANITE® cast iron to reduce the effects of vibration and minimize thermal deformation.
- Designed with a wide span between the two Z-axis boxways provide exceptional rigidity and stability during machining.

High Performance Spindle with 10" Chuck

- The spindle driven by a 35 kW 47 HP motor can generate rotation speed up to 3,500 rpm which is well-suited for heavy duty machining.
- The spindle utilizes large diameter bearings that improves rigidity and cutting capability.
- C-axis index: 0.001°.

Single-setup Efficiency

- Packed with sub spindle, Y-axis, live tool turret and C-axis, these turn-mill features allow complex finished parts machining in just one setup, while also improving efficiency and accuracy.
- X/Y/Z/B-axis are equipped with direct drive motors to enable high-accuracy positioning and repeatability.
- The turning center is equipped with a 6" sub spindle with rotation of up to 6,000 rpm and maximum power of 11 kW 15 HP.
- The turning brake on sub spindle incorporates the rotary encoder, ensuring high resolution positioning and repeatability for done-in-one part machining processes.

BMT65 Turret with Live Tooling

- The BMT65 turret ensures a fast and stable rotation of up to 4,500 rpm and outputs 5.5 kW 7.4 HP.
- The 12-station servo-driven turret provides high reliability and reduces tool change time.

SPECIFICATIONS

	BTX 250SY
MACHINING CAPACITY	
Swing Over Bed	ø1,000 mm ø39.37" (ø700 ø27.56" interference with cover) mm
Swing Over Carriage	ø870 ø34.25" (ø700 interference with cover) mm
Max. Turning Diameter	ø350 mm ø13.78"
Max. Turning Length	729 mm ø28.7"
SPINDLE / SUB SPINDLE	
Chuck Size	10" / 6"
Spindle Nose	A2-8 / A2-5
Spindle Front Bearing Inner Diameter	ø130 / ø90 mm ø5.12" / ø3.54"
Hole Through Spindle	ø88 / ø55 mm ø3.46" / ø2.17"
Hole Through Draw Tube	ø75 / ø45 mm ø2.95" / ø1.77"
Spindle Speed	3,500 / 6,000 rpm
Max. Spindle Torque	446.9 / 91.3 Nm
C-axis Index	0.001° / 0.001°
MOTOR	
Main Spindle Motor	18.5 / 22 / 30 / 35 kW 25 / 30 / 40 / 46.9 HP
Sub Spindle Motor	7.5 / 11 kW 10 / 15 HP
Axial Motor (X/Z/Y/B)	4 / 4 / 4 / 3 kW 5.4 / 5.4 / 5.4 / 4 HP
Turret Motor	1.2 kW 1.6 HP
Live Tool Motor	3.7 / 5.5 kW 5 / 7.4 HP
Live Tool Motor Speed	100~4,500 rpm
TRAVEL	
X/Z/Y/B-axis Travel	260(175+85) / 780 / 100 (±50) / 760 mm 10.24"(6.89"+3.35") / 30.71" / 3.94"(±1.97") / 29.92"
Rapid Feedrate (X/Z/Y/B)	20 / 24 / 10 / 20 m/min 787 / 978 / 394 / 787 ipm
Cutting Feedrate (X/Z/Y)	1~10000 mm/min 0.04~393 ipm
TURRET	
Turret Type	Radial Multitasking Turret (Servo Rotating / Hydraulic Clamp)
Tool Stations	12T (BMT65)
Tool Type	Shank Height for Square Tool <input type="checkbox"/> 25 mm <input type="checkbox"/> 1"
	Shank Diameter for Boring Bar ø40 mm ø1 & 1/2"
HYDRAULIC SYSTEM	
Pressure	45 kgf/cm ² 640 psi
Flow Rate	50Hz : 31 L/min 8.19 gpm
	60Hz : 37 L/min 9.78 gpm
COOLANT	
Tank Capacity	420 L 110.96 gal
Pump Motor	50Hz : 0.62 kW 0.83 HP
	60Hz : 0.91 kW 1.22 HP
GENERAL	
Machine Weight	7,550 kg 16,645 lb

Note: Above specifications may vary depending on the machine and the surrounding environment.
The manufacturer reserves the right to modify the design, specifications, mechanisms, etc., to improve the performance of the machine without notice. The test data provided in this catalog is performed under specific test procedures and environmental conditions.

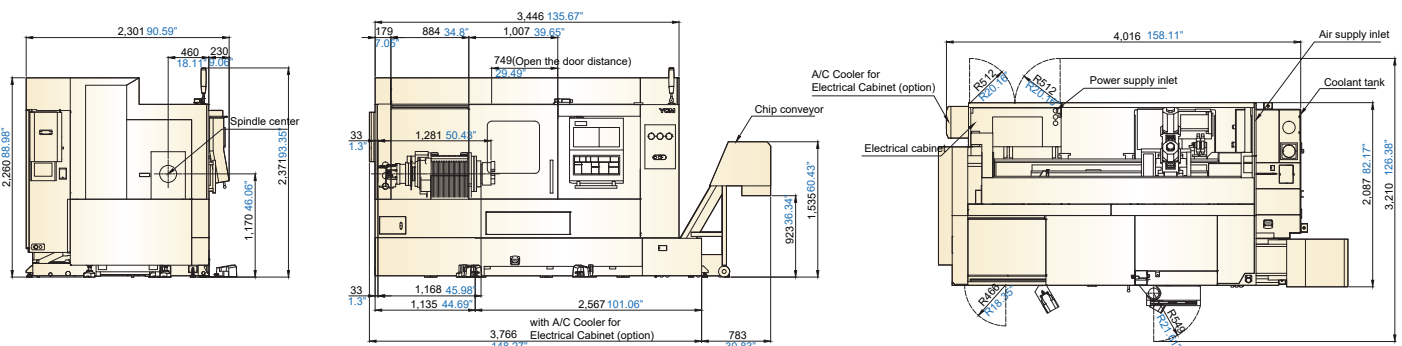
STANDARD ACCESSORIES

- Through Hole Rotating Hydraulic Cylinder
- Hydraulic Chuck & Hard Jaws and Soft Jaws 1 Set
- Pedal
- Central Lubrication System
- Coolant System
- Cutting Air Blast
- Air Gun
- Chip Conveyor (Chain Type)
- Heat Exchanger for Electrical Cabinet
- Automatic Power Off Device
- Safety Door
- Full Chip Enclosure
- Leveling Blocks & Screws
- CNC Control : TXP-200FB+

OPTIONAL ACCESSORIES

- Additional Hard Jaws and Soft Jaws
- Oil-mist Collector
- Coolant Gun
- Chip Conveyor (Scraper Type)
- Parts Catcher System
- Parts Ejector System
- Parts Conveyor
- Oil Skimmer
- Axial Safety Clutch (X/Z-axis)
- Auto Tool Length Measurement
- Bar Feeder Software.Hardware
- A/C Cooler for Electrical Cabinet
- CE
- Automatic Door
- Foundation Bolts

DIMENSIONS Unit: mm inch



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