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SYNCREX 20 | 25

SYNCREX SERIES

Swiss-Style Production Turning Machines

Mazak

[20/7 | 20/8 | 20/9 & 20/9X | 25/7 | 25/8 | 25/9 & 25/9X]



SYNCREX SERIES

Features and Benefits

- 20 mm and 25 mm models include standard 10,000 rpm main and sub spindles
- Machines run full bar capacity with no special bar end prep
- Spline-connected sliding head spindle for greater accuracy and less material waste
- Removable guide bushing adapter enables operators to preset guide bushing outside the machine
- Exclusive Mazak Auto Tool Setter in the machine reduces setup time
- Mazak HDCC machine base for increased machine stability and rigidity

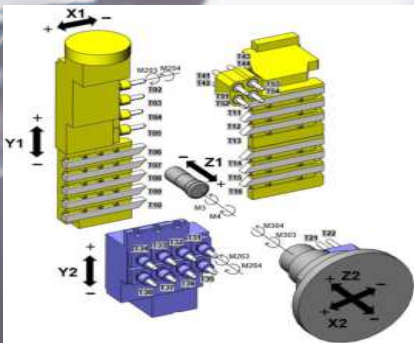
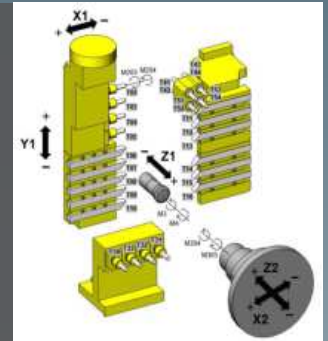


Renowned Mazak quality and performance – backed by Mazak's industry-leading MPower Complete Customer Care

- 2-year comprehensive warranty
- Easy access to Mazak application experts
- Quick parts availability
- Expert spindle rebuild and repair
- Live 24-hour support
- My Mazak online service portal
- Remote Assist service
- In-depth training resources

20 & 25 mm 7-Axis Model Tooling Configuration

- Cross Drill Live Holder 4 Position Cross Drilling unit - ER16
- OD Tool Holder x3 5 Position Tool Holder (Ø1/2 Square)
3 Position Tool Holder (Ø1/2 Square)
3 Position Tool Holder (Ø1/2 Square)
- Drilling/Boring Holder 8 Positions 4 main/4 sub (Ø3/4)
- Back Working Holders 4 Positions (static)

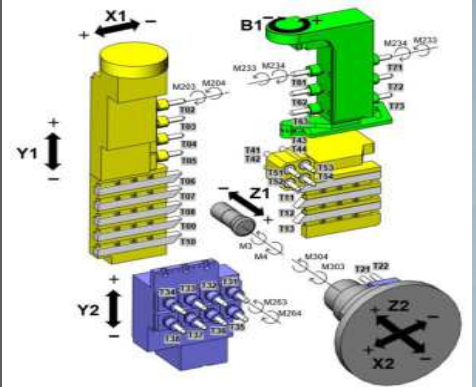


20 & 25 mm 8-Axis Model Tooling Configuration

- Cross Drill Live Holder 4 Position Cross Drilling unit - ER16
- OD Tool Holder x3 5 Position Tool Holder (Ø1/2 Square)
3 Position Tool Holder (Ø1/2 Square)
3 Position Tool Holder (Ø1/2 Square)
- Drilling/Boring Holder 8 Positions 4 main/4 sub (Ø3/4)
- Deep Drill Holder 2 Positions (Ø3/4)
- Back Working Holders 4 Positions (static)

20 & 25 mm 9-Axis Model Tooling Configuration

- Cross Drill Live Holder 4 Position Cross Drilling unit - ER16
- OD Tool Holder x2 5 Position Tool Holder (Ø1/2 Square)
3 Position Tool Holder (Ø1/2 Square)
- Drilling/Boring Holder 8 Positions 4 main/4 sub (Ø3/4)
- Deep Drill Holder 2 Positions (Ø3/4)
- Back Working Holders 8 Positions (2 Static/6 Live)
- Positionable B-axis live tool unit 6 Positions (3 Main/3 Sub)
(Full contouring B-axis optional)



Mazak High-Damping Composite Casting (HDCC)

- Solid one-piece casting
- Machine base weighs 3,200 lbs
- 10% more rigid than cast iron
- Superior vibration damping characteristics
- 80% less vibration at the cutting point
- 30% longer tool life
- Less thermal distortion



Standard and Optional Machine Specifications

		20/7	20/8	20/9 & 20/9X	25/7	25/8	25/9 & 25/9X
Machining Capacity	Max. Turning Diameter	0.7500" (20 mm)			1.0" (25 mm)		
	Max. Turning Bar Length (one chucking)	8.07"/205 mm					
	Max. Main Spindle Drilling/Tapping	0.390" (10 mm)/M10			0.390" (10 mm)/M12		
	Max. Backend Face Drilling/Tapping	0.390" (10 mm)/M10			0.390" (10 mm)/M12		
	Max. Cross Drilling/Tapping	0.390" (10 mm)/M8					
Capability	Main Spindle Speed	25 to 10,000 rpm					
	Sub Spindle Speed	25 to 10,000 rpm					
	C-Axis Main and Sub-Spindle	Full C Axis (0.00010°)					
	Max. Cross Live Tool Spindle Speed	6,000 rpm					
	Total No. of Tools Standard	29	33	36	29	33	36
	OD/Cross Live Tool/Back Working	11/4/4	11/4/8	8/4/8	11/4/4	11/4/8	8/4/8
	End Working Tools	-	2	2	-	2	2
	Boring Bar Holder (Main/Sub)	4/4					
	B-Axis Tool (Main/Sub)	-	O	3/3	-	O	3/3
	B-Axis Contouring	-		9x only	-		9x only
	Turning Tool Size	1/2"					
	Rapid Traverse (X1, Y1, Z1, X2, Y2, Z2)	1377 ipm (35 m/min)					
CNC Control	MAZATROL SmoothSt	S		S (20/9)	S		S (25/9)
	MAZATROL SmoothStX	-		S (20/9X)	-		S (25/9X)
Motors	Main Spindle (40% ED)	5 hp (3.7kW)			8 hp (5.5kW)		
	Sub Spindle (40% ED)	5 hp (3.7kW)			8 hp (5.5kW)		
	Cross Drill Live Tools	6,000 RPM 1.4 HP / 1.0 kW					
	Back End Face Tools	6,000 RPM 1.3 HP / 0.9 kW					
Services	Coolant Tank Capacity	62 gallons (235.5 L)					
	Coolant Type	Non-water-soluble cutting oil/Water-soluble cutting fluid					
	Air Supply	72.5 psi (0.5 Mpa)					
	kVA (peak)	31.5	32.25	33.25	31.5	32.25	33.25
Dimensions	Center Height	41.34" (1050 mm)					
	Length	88.58" (2250 mm)					
	Width	48.23" (1225 mm)					
	Height	66.93" (1700 mm)					
	Machine Weight	7,850 lbs (3560 kg)					

- Not Available O Optional S Standard

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