

SYNCREX SERIES

Swiss-Style Production Turning Machines

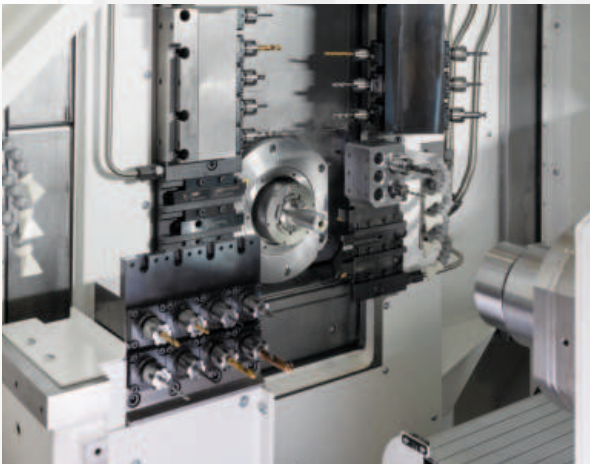
[32/7 | 32/8 | 32/9 & 32/9X | 38/7 | 38/8 | 38/9 & 38/9X]



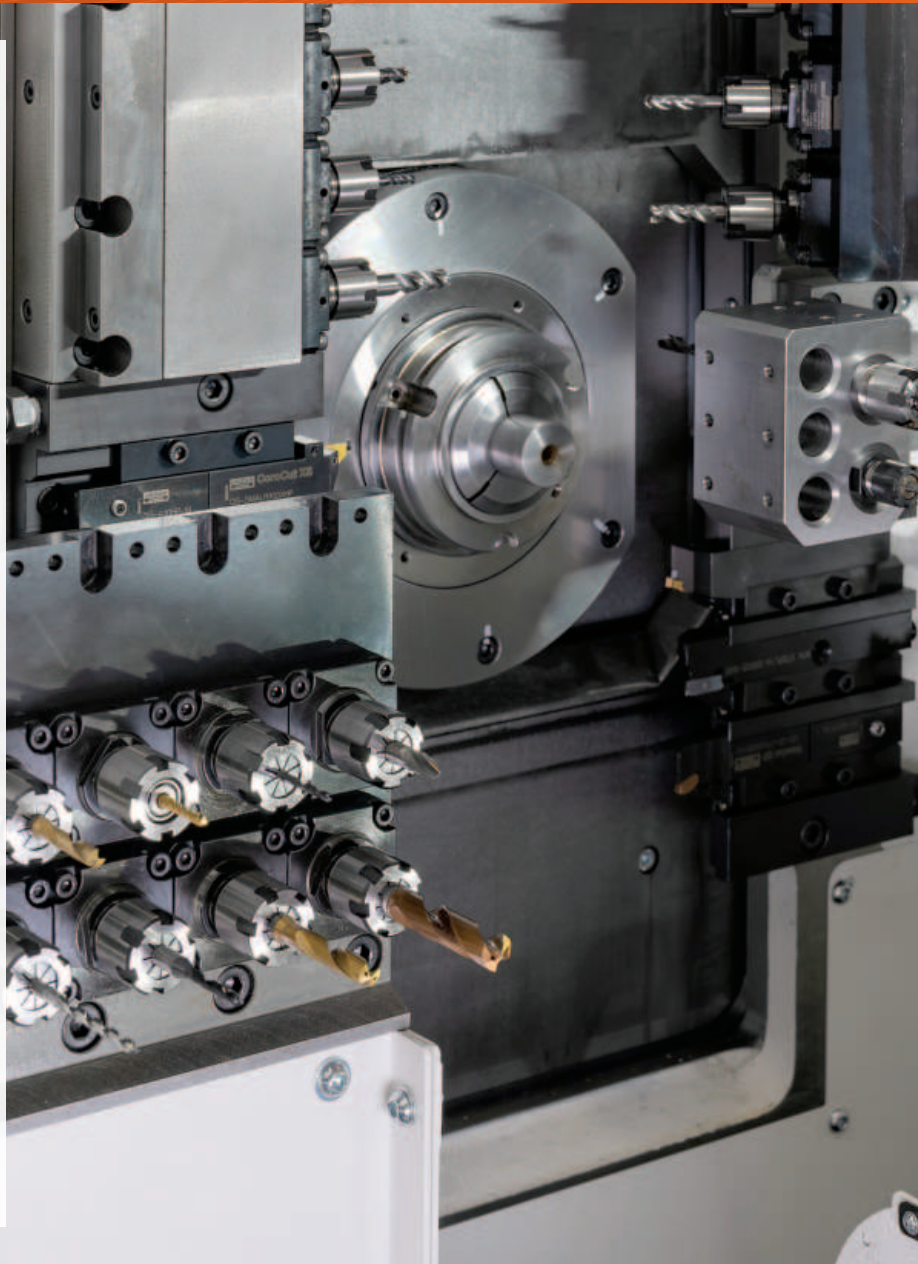
SYNCREX SERIES

Features and Benefits

- 32 mm and 38 mm models include standard 8,000 rpm main and sub spindles
- Machines run full bar capacity with no special bar end prep
- Removable guide bushing adapter enables operators to preset guide bushing outside the machine
- The SYNCREX 32 and 38 are “convertible” and can quickly and easily be changed over to run in chucker mode
- Exclusive Mazak Auto Tool Setter in the machine reduces setup time
- Mazak HDCC machine base for increased machine stability and rigidity



Chucker Mode

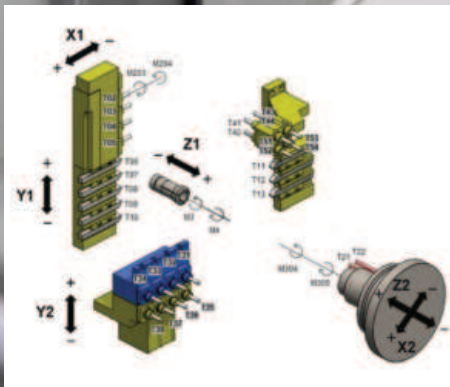
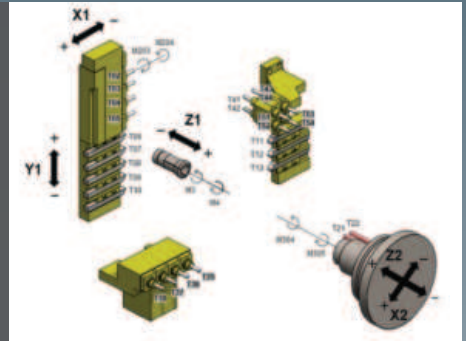


Renowned Mazak quality and performance – backed by Mazak's industry-leading MPower Complete Customer Care

- 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

32 & 38 mm 7-Axis Model Tooling Configuration

- Cross Drill Live holder 4 Position Cross Drilling Unit - ER16
- OD tool holder x 3 5 Position Tool Holder (Ø5/8 Square)
3 Position Tool Holder (Ø5/8 Square)
3 Position Tool Holder (Ø5/8 square)
- Drilling/Boring Holder 8 Position 4 Main/4 Sub (Ø3/4)
- Back working Holder 4 Position (Static)

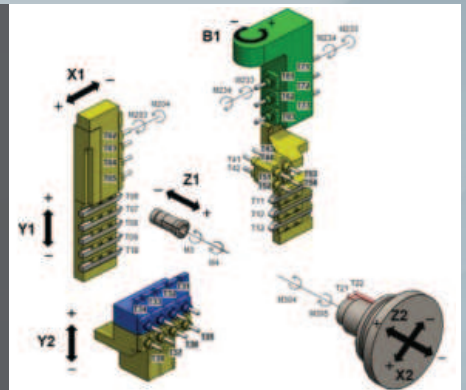


32 & 38 mm 8-Axis Model Tooling Configuration

- Cross Drill Live holder 4 Position Cross Drilling Unit - ER16
- OD tool holder x 3 5 Position Tool Holder (Ø5/8 Square)
3 Position Tool Holder (Ø5/8 Square)
3 Position Tool Holder (Ø5/8 square)
- Drilling/Boring Holder 8 Position 4 Main/4 Sub (Ø3/4)
- Deep Drill Holder 2 Position
- Back working Holder 8 Position (2 static and 6 live)

32 & 38 mm 9-Axis Model Tooling Configuration

- Cross Drill Live holder 4 Position Cross Drilling Unit - ER16
- OD tool holder x 2 5 Position Tool Holder (Ø5/8 Square)
3 Position Tool Holder (Ø5/8 Square)
- Drilling/Boring Holder 8 Position 4 Main/4 Sub (Ø3/4)
- Deep Drill Holder 2 Position
- Back working Holder 8 Position (2 static and 6 live)
- B-Axis Tool Holder 6 position (3 Main/3 Sub)



Mazak High-Damping Composite Casting (HDCC)

- Solid one-piece casting
- Machine base weighs 4,500 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

		32/7	32/8	32/9 & 32/9X	38/7	38/8	38/9 & 38/9X	
Machining Capacity	Max. Turning Diameter	1.25" (32 mm)			1.5" (38 mm)			
	Max. Turning Bar Length (one chucking)	Guide Bushing 12.59" (320 mm)						
		Chucking Mode -Bar Dia.x2.5 (Max 3.15" (80 mm)						
	Max. Main Spindle Drilling/Tapping	0.5" (12 mm)/M10			0.5" (12 mm)/M12			
	Max. Backend Face Drilling/Tapping	0.5" (12 mm)/M10			0.5" (12 mm)/M12			
	Max. Cross Drilling/Tapping	0.390" (10 mm)/M8						
Capability	Main Spindle Speed	25 to 8,000 rpm						
	Sub Spindle Speed	25 to 8,000 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	27	36	39	27	36	39	
	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 (Live)	-	5(4)		-	5(4)		
	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	SQ.5/8" (16 mm)						
	Rapid Traverse (X1, Y1, Z1, X2, Y2, Z2)	1378 IPM (35 m/min)						
	CNC Control	MAZATROL SmoothSt	S		S (32/9)	S		S (38/9)
		MAZATROL SmoothStX	-		S (32/9X)	-		S (38/9X)
Motors	Main Spindle (40% ED)	8 HP (5.5 kW)			10 HP (7.5 kW)			
	Sub Spindle (40% ED)	8 HP (5.5 kW)			10 HP (7.5 kW)			
	Cross Drill Live Tools	6,000 rpm (MAX 7,500 rpm) 1.4 HP / 1.0 kW						
	B-axis Tools	9,000 rpm 1.3 HP / 0.9 kW						
	Back End Face Tools	4,000 rpm (MAX 5,000 rpm M) 1.4 HP / 1.0 kW						
Services	Coolant Tank Capacity	39 gallons (150 L)						
	Coolant Type	Non-water-soluble cutting oil/Water-soluble cutting fluid						
	Air Supply	3.18 ft3/min (90 NL/min)						
	kVA (peak)	32	32.85	33.76	34.57	35.4	36.3	
Dimensions	Center Height	41.3" (1050 mm)						
	Length	99.2" (2520 mm)						
	Width	52.0" (1320 mm)						
	Height	78.9" (2003 mm)						
	Machine Weight	12,200 lbs (5540 kg)						

- Not Available O Optional S Standard

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