

QT-Ez Series

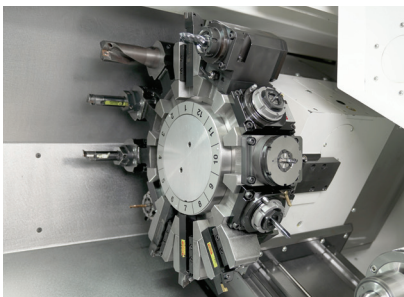
Horizontal Turning Series



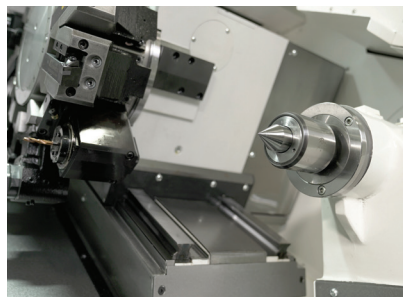
Designed and built in Kentucky, the QT-Ez Series gives shops affordable access to Mazak reliability, accuracy and performance. QT-Ez machines can also be configured with a range of tailstock, automation, chip management and Multi-Tasking options that expand their functionality – and even provide full access to DONE IN ONE® capabilities for single-setup machining.

FEATURES

- Powerful and reliable integral motor headstock designs.
- Hybrid MX Roller Guide System improves rigidity, accuracy and reliability.
- Pre-tensioned ball screw systems with support at each end.
- Turret configurations include a 2-axis drum style, Mazak bolt-on or BMT 55 for rotary tool applications.
- Tailstock options include a manual position with hydraulic quill or servo positioning capability.
- Rotary tooling (M) and Y-axis off-centerline machining (Y) for Multi-Tasking processing.
- High-production second spindle (S) available for DONE IN ONE® part processing.
- Seamless integration for bar feeders and robots for unmanned operations.



Bolt-on Milling Turret



Servo Tailstock Option



MAZATROL SmoothEz CNC

- 15" capacitive touch-screen display with full keyboard.
- EIA/G-code and MAZATROL programming languages standard.
- 800MHz x 2 NC with 512MB of DDR3-SDRAM.
- SMOOTH Machining Configuration (SMC) capabilities.
- Newly designed LAUNCHER screen.
- Enhanced MAZATROL features, MAZATROL TWINS capability, plus the addition of QUICK MAZATROL.

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Mazak

QT-Ez Series Specifications

SPECIFICATION		QT-Ez 8	QT-Ez 10	QT-Ez 12	
CAPACITY	Maximum Swing	27.40 in / 695 mm	27.40 in / 695 mm	27.40 in / 695 mm	
	2-Axis				
	Maximum Machining Diameter	16.13 in / 410 mm	16.13 in / 410 mm	16.13 in / 410 mm	
	M / MY / MSY				
	Maximum Machining Diameter	13.5 in / 340 mm	13.5 in / 340 mm	13.5 in / 340 mm	
	2-Axis				
	Standard Machining Diameter	8.35 in / 212 mm	8.35 in / 212 mm	10 in / 254 mm	
	M / MY / MSY				
	Standard Machining Diameter	9.25 in / 235 mm	9.25 in / 235 mm	10 in / 254 mm	
	Maximum Bar Work Capacity	2.0 in / 51 mm	2.5 in / 64 mm	3.0 in / 76 mm	
MAIN SPINDLE	Max Support Weight (Chuck / Shaft Work)	440 lbs / 1,100 lbs (200 kg / 500 kg)	440 lbs / 1,100 lbs (200 kg / 500 kg) MSY chuck work = 990 lbs (450 kg)	990 lbs / 1,100 lbs (450 kg / 500 kg)	
	2-Axis				
	Maximum Machining Length (500U)	23.40 in / 594 mm	22.83 in / 577 mm	21.44 in / 545 mm	
	M / MY / MSY				
	Maximum Machining Length (500U)	20.78 in / 529 mm	20.21 in / 511 mm	18.94 in / 479 mm	
	2-Axis				
	Maximum Machining Length (1,000U)	—	—	43.19 in / 1,095 mm	
	M / MY / MSY				
	Maximum Machining Length (1,000U)	—	—	40.56 in / 1,029 mm	
	Maximum Spindle Speed	6,000 rpm	4,500 rpm	4,000 rpm	
TURRET	Standard Chuck Size	8 in / 203 mm	10 in / 254 mm	12 in / 305 mm	
	Maximum Speed of STD Chuck	5,000 rpm	4,200 rpm	3,300 rpm	
	Motor Output	20.0 hp / 15 kw (25% ED)	20.0 hp / 15 kw (25% ED)	30.0 hp / 22 kw (10% ED)	
	Spindle Torque (Max)	123 ft-lbs (167 Nm)	144 ft-lbs (195 Nm)	285 ft-lbs (387 Nm)	
	Spindle Nose	A2-6	A2-6	A2-8	
	Number of Tools	12	12	12	
FEED AXES	Turning Tooling Size	1.0 in O.D. / 1.5 in I.D. / 1.0 in 2nd O.D.	1.0 in O.D. / 1.5 in I.D. / 1.0 in 2nd O.D.	1.0 in O.D. / 1.5 in I.D. / 1.0 in 2nd O.D.	
	M / MY / MSY				
	Maximum Milling Speed	6,000 rpm	6,000 rpm	6,000 rpm	
	M / MY / MSY				
	Motor Output (25% ED)	7.5 hp (5.5 kw)	7.5 hp (5.5 kw)	10.0 hp (7.5 kw)	
RAPID RATES	Travel (X Axis)	8.50 in / 215 mm	8.50 in / 215 mm	8.50 in / 215 mm	
	2-Axis				
	Travel (Z Axis) (500U)		24.50 in / 625 mm	24.50 in / 625 mm	24.50 in / 625 mm
		M	23.75 in / 605 mm	23.75 in / 605 mm	23.75 in / 605 mm
		MY	23.75 in / 605 mm	23.75 in / 605 mm	23.75 in / 605 mm
		MSY	23.75 in / 605 mm	23.75 in / 605 mm	23.75 in / 605 mm
	MY / MSY				
	Travel (Y Axis)	4.0 in / 100 mm	4.0 in / 100 mm	4.0 in / 100 mm	
MSY					
Travel (W Axis)	23.75 in / 605 mm	23.75 in / 605 mm	23.75 in / 605 mm		
500U	X Axis / Y Axis / Z Axis	1,181 ipm / 394 ipm / 1,417 ipm	1,181 ipm / 394 ipm / 1,417 ipm	1,181 ipm / 394 ipm / 1,417 ipm	
	1,000U	X Axis / Y Axis / Z Axis	1,181 ipm / 394 ipm / 1,181 ipm	1,181 ipm / 394 ipm / 1,181 ipm	
Second Spindle	Chuck Size	5 in / 127 mm	6 in / 152 mm	6 in / 152 mm	
	MSY				
	Maximum Speed	6,000 rpm	6,000 rpm	6,000 rpm	
	MSY				
	Motor Output (3-Minute Rating)	10 hp / 7.5 kw	10 hp / 7.5 kw	15 hp / 11 kw	
MSY					
Spindle Torque (Max.)	38.3 ft-lbs (52 Nm)	38.3 ft-lbs (52 Nm)	66 ft-lbs (89.5 Nm)		
Machine Depth		75 in / 1,905 mm	75 in / 1,905 mm	75 in / 1,905 mm	
Machine Length (500U / 1,000U)		102.4 in / 2,600 mm	109.1 in / 2,771 mm	109.1 in / 2,771 mm	
Machine Height		67.9 in / 1,725 mm	67.9 in / 1,725 mm	67.9 in / 1,725 mm	
Machine Weight (500U) 2-Axis		11,244 lbs / 5,111 kg	11,310 lbs / 5,130 kg	11,685 lbs / 5,300 kg	
	M / MY				
		11,905 lbs / 5,400 kg	11,949 lbs / 5,420 kg	12,324 lbs / 5,590 kg	
MSY					
		12,125 lbs / 5,500 kg	12,260 lbs / 5,561 kg	12,640 lbs / 5,733 kg	