

MX380 / MX380D / MX420



Vertical Machining Center

- Compact structure of Column Moving Type
- High accuracy, high rigidity single unit bed
- Adoption of high output built-in main spindle motor (7kW)
- Rigid Tapping 10,000 rpm and installation of high volume Amp for main spindle
- Acceleration/deceleration of main spindle 0.95 sec from 0 to reach 12,000 rpm
- Adoption of Ball screw and L/M from high speed processing machine for constant noise, constant speed, compactness

			New MX380	New MX380D	New MX420
Table Size (length x width)		mm [in]	600 × 380 [23.6x14.9]	2-650 × 400 [25.6x15.7]	800 × 420 [31.5x16.5]
Table Load		kgf [lbs]	200 [441]	250 [551]	300 [661]
Travel	X	mm [in]	520 [20.5]	520 [20.5]	700 [27.6]
	Y		380 [15]	360 [14.2]	420 [16.5]
	Z		480 [18.9]	480 [18.9]	480 [18.9]
Spindle Taper		mm [in]	BBT # 30	BBT # 30	BBT # 30
Spindle Speed	STD	rpm	21,000	21,000	21,000
Spindle Power	Main	kw [hp]	7 [9.4]	7 [9.4]	7 [9.4]
Rapid Traverse	X,Y axis	m/min [ipm]	56 [2,205]	50 [1,969]	50 [1,969]
	Z axis		56 [2,205]	56 [2,205]	56 [2,205]
Tool Storage Capacity	STD	EA	20	20	20
	OPT		-	-	-

Design and Specifications are subject to change without prior notice.

**HYUNDAI-KIA MACHINE
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Power of Evolution

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MX380 / MX380D / MX420

Specification

ITEM			MX380 <small>New</small>	MX380D <small>New</small>	MX420 <small>New</small>	
TABLE	Size (length x width)		mm [in]	600 × 380 [23.6x14.9]	2-650 × 400 [25.6x15.7]	800 × 420 [31.5x16.5]
	Max. load on table		kgf [lbs]	200 [441]	250 [551]	300 [661]
	Table type			T-slot	T-slot	T-slot
TRAVEL	Table longitudinal	X	mm [in]	520 [20.5]	520 [20.5]	700 [27.6]
	Table cross	Y		380 [15]	360 [14.2]	420 [16.5]
	Spindle head verticle	Z		480 [18.9]	480 [18.9]	480 [18.9]
	Tilting	A	degree	-	-	-
	Rotating	C		-	-	-
	Distance from column to spindle center			444 [17.5]	444 [17.5]	484 [19.1]
	Distance from table surface to spindle nose			150 ~ 630 [5.9~24.8]	150 ~ 680 [5.9~26.8]	150 ~ 630 [5.9~24.8]
SPINDLE	Taper			BBT # 30	BBT # 30	BBT # 30
	Speed	STD	rpm	21,000	21,000	21,000
		OPT				
	Power	STD	kw [hp]	7 [9.4]	7 [9.4]	7 [9.4]
		OPT				
	Torque	STD	kgf-m [ft-lbs]	0.56 [4.1]	0.56 [4.1]	0.56 [4.1]
OPT						
Spindle Drive		STD	Built-in	Built-in	Built-in	
FEED	Rapid	X,Y axis	m/min [ipm]	56 [2,205]	50 [1,969]	50 [1,969]
		Z axis		56 [2,205]	56 [2,205]	56 [2,205]
	Tilting	A	rpm	-	-	-
	Rotating	C		-	-	-
	Cutting feed rate			m/min [ipm]	20 [787]	20 [787]
ATC	Type			Twin arm	Twin arm	Twin Arm
	Tool storage capacity	STD	EA	20	20	20
		OPT		-	-	-
	Max. tool diameter		mm [in]	65 [2.6]	65 [2.6]	65 [2.6]
	Max. tool diameter (without adjacent tool)			130 [5.1]	130 [5.1]	130 [5.1]
	Max. tool length			200 [7.9]	200 [7.9]	200 [7.9]
	Max. tool weight		kgf [lbs]	3 [6.6]	3 [6.6]	3 [6.6]
	Tool selection type			Random	Random	Random
Tool change time	tool to tool chip to chip	sec.	1.5	1.5	1.5	
			2.2	2.2	2.2	
MOTOR	Spindle	Main	kw [hp]	7 [9.4]	7 [9.4]	7 [9.4]
	Feed	X / Y		2.3/2.3 [3.1/3.1]	5.7/5.7 [7.6/7.6]	2.2/2.3 [3.1/3.1]
		Z / B		3.3 [4.4]	3.3 [4.4]	3 [4]
Coolant						
APC	Pallet change type			-	-	
	Pallet change time		sec.	-	-	-
Coolant through spingle (Option)				20BAR	20BAR	20BAR
Rigid tapping				STD	STD	STD
Electric capacity			kVA	20	20	20
Floor space			mm [in]	2,550 × 2,540 [100.4x100]	2,640 × 3,150 [103.9x124]	2,750 × 2,575 [108.3x101]
Slide way				LM guide	LM guide	LM guide
Machine weight			kgf [lbs]	2,900 [6,393]	5,200 [11,464]	3,500 [7,716]
Controller			STD	SIEMENS802D	SIEMENS802D	SIEMENS 802D
			OPT	SIEMENS840D	SIEMENS840D	SIEMENS 840D

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