

# MX series

VERTICAL/ HORIZONTAL CNC MILLING MACHINE



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# MX series

HIGH PRECISION CNC MILLING MACHINE



MX-3BG-50H

- Suitable for machining jigs, fixtures, molds and under-development pieces on a small-volume but variety basis and installing rotary table processing on polyhedral work-pieces.
- Reserves traditional operation functions. Easy, smart, and precision MPG hand wheel.



▲ H Horizontal Type Machining Structure NT40



▲ H Horizontal Type Machining Structure NT50

- H Horizontal Type Machining Structure (OPT):
- Horizontal type milling head specifications NT/BT#40(#50)
  - Spindle motor NT#40 5HP/4P, NT#50 7.5HP/4P
  - Vertical travel NT#40 : 370(op : 500)mm, NT#50 : 570mm
  - NT#40 acme screw or ballscrews, NT#50 ballscrews
  - Reducer non-step servo transmission moving speed 10~1200mm/min
  - Spindle speed : NT#40 : 57~1227rpm, NT#50 : 62~1100 rpm(6-step speed)

## HK Horizontal Turret Type Machining Structure (OPT):

- Horizontal type milling head specifications NT/BT#40(#50)
- Spindle motor 5HP/4P(60HZ)
- Automatic spindle feeding feature, with each round standing at 0.035/0.07/0.14mm.
- Vertical travel NT40 : 370(op : 500)mm, NT#50 : 570mm
- Reducer non-step servo transmission moving speed 10-1200 mm/min
- Spindle Speed : Low speed 57~432rpm, high speed 424~3600rpm, Frequency conversion and step-less
- Turret travel 140mm



# OPTIMIZED STRUCTURE DESIGN

## THE ULTIMATE IN RIGIDITY AND STABILITY



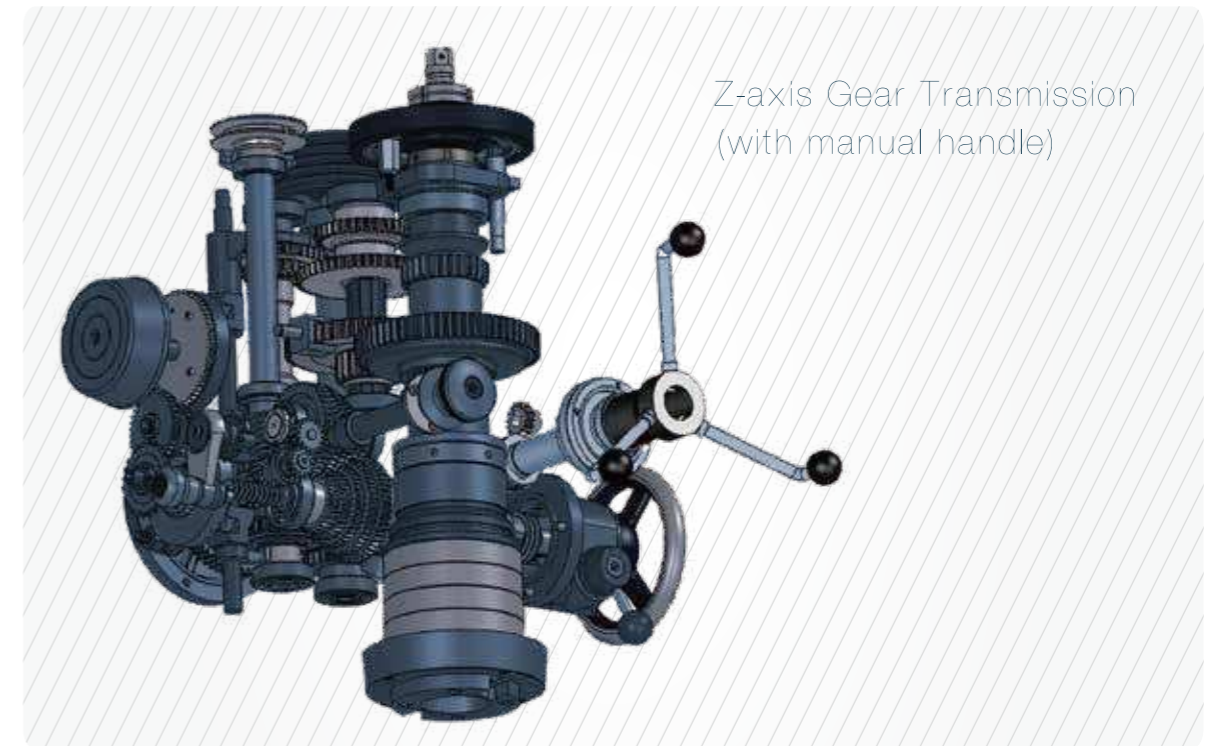
▲ LNC M668A Controller



▲ BOSCH Rexroth Controller

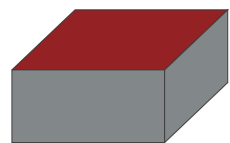
### FUNCTION:

- General G/M Code Operation
- Background Editing
- Program Function
- Program Transmission Function
- Multi-national Languages
- Pattern Simulated Display
- Hardware Self-diagnosis Display
- MPG Execute Program

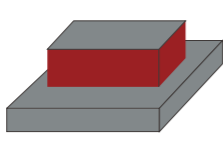


### INSTRUCTION

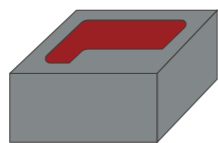
Flat machining



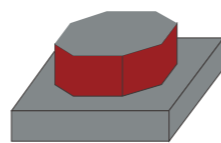
External rectangular machining



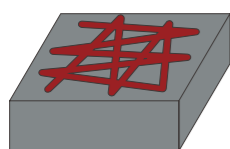
Internal rectangular machining



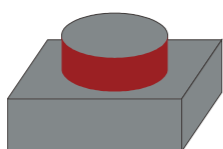
Polygonal machining



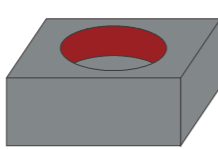
Contour machining



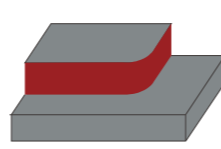
External circular machining



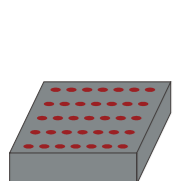
Internal circular machining



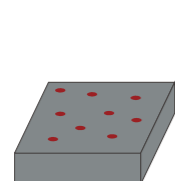
R-corner machining



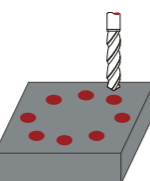
Array drilling



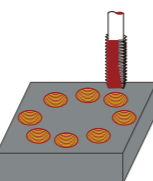
Arbitrary drilling



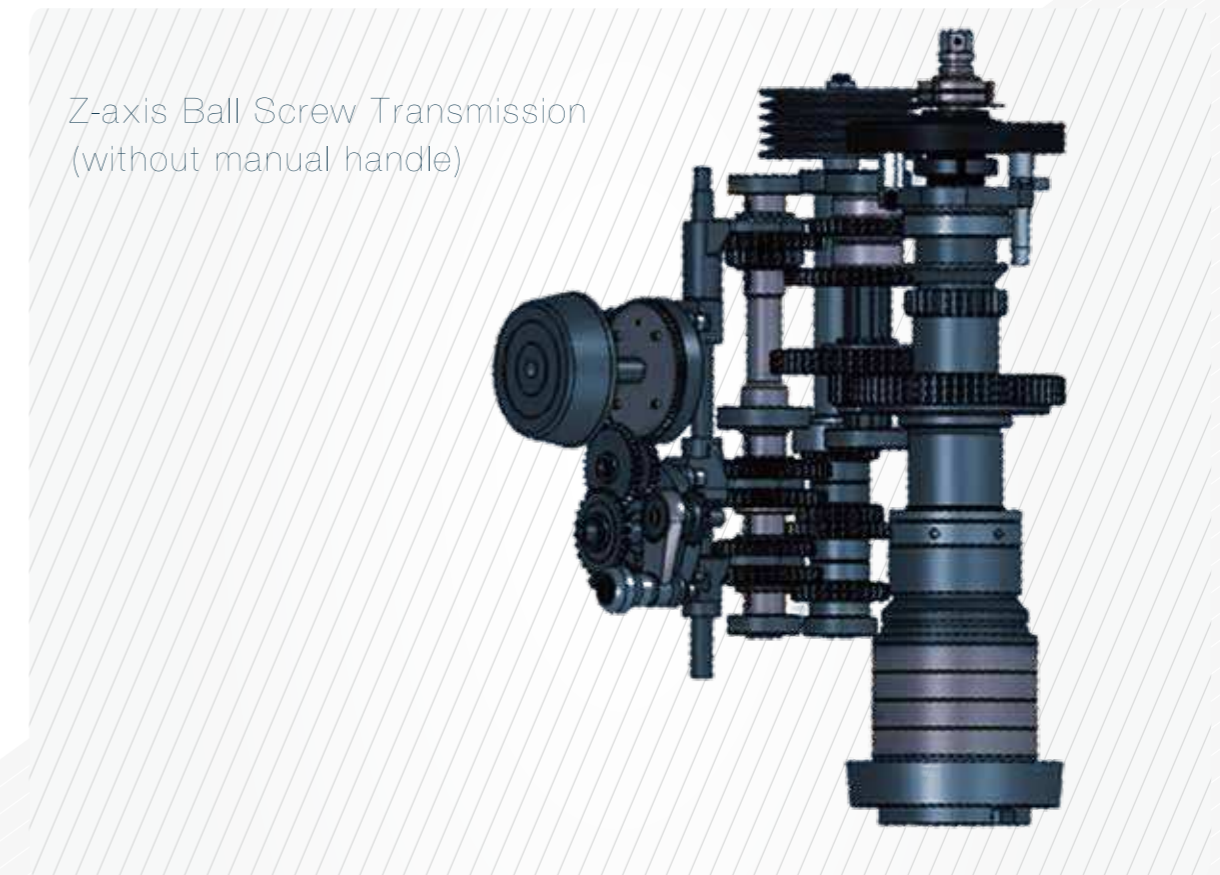
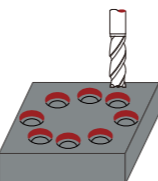
PCD drilling



Floating tap



Countersinking & counterboring



### Dual-guideway Base



For X travel 1300mm



For X travel 1500mm

### Four-guideway Base



For X travel 2400mm

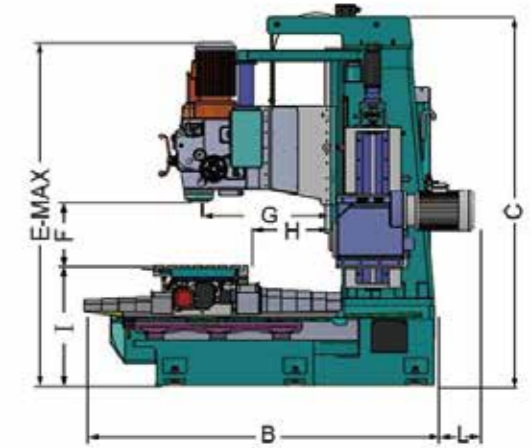
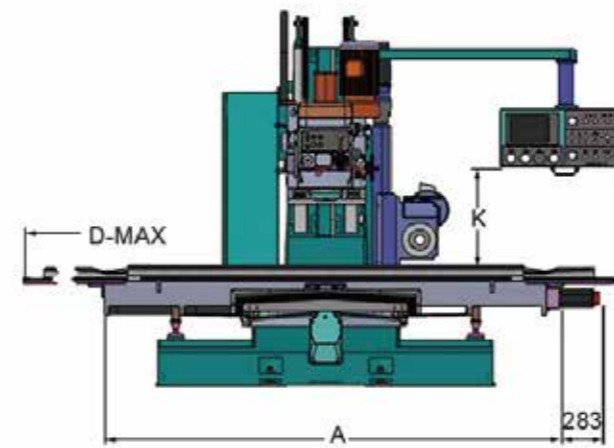
### High Rigidity Base:

- The base features a high-rigidity square hardened rail, suitable for heavy-duty machining applications.
- The robust base casting incorporates a rib-reinforced structure, delivering optimal support rigidity.
- The four-track design eliminates the issue of the worktable being suspended, thereby enhancing load capacity and precision.

### Precision Hand Scraping for Finishing:

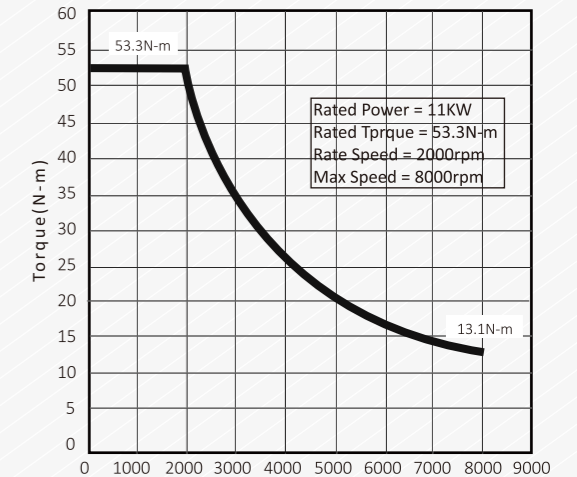
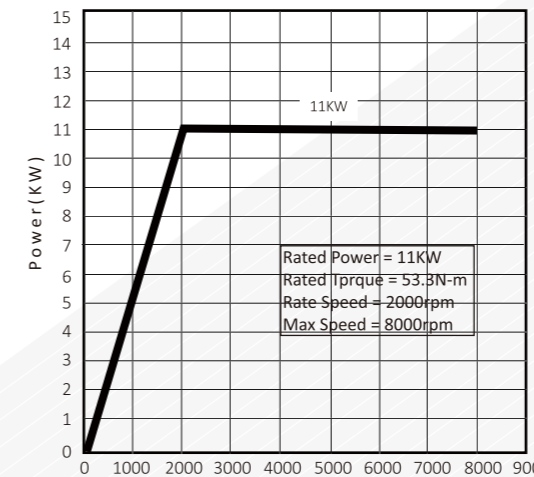
- All structural mating surfaces are superior scraped to ensure geometric accuracy and loading balance.
- The machine adopts the non-TURCITE-B, coupled with a special oil groove design, ensuring a longer lifespan.

### DIMENSIONAL DRAWINGS



Model	MX-3(B)	MX-3BG-50	MX-5(B)-50	MX-6(B)-50
AxBxCxD	2391x2229x2400x3691mm	2391x2229x2400x3691mm	3110x2489x2504x4610mm	3860x2489x2504x6260mm
E	2410mm	2497mm	2639 mm	2639 mm
F	100~700mm	160~760mm	100~770mm	100~770mm
G	560mm	550mm	765mm	765mm
H	60~660mm	60~660mm	20~820 mm	20~820 mm
I	850mm	850mm	810 mm	810 mm
K	432mm	432mm	487mm	487mm
L	248mm(HK)	248mm(HK)	382mm(HK)	382mm(HK)

### SPINDLE OUTPUT



# SPECIFICATIONS

MODEL	ITEM	UNIT	MX			
			MX-2BHK	MX-3	MX-3BHK	MX-3BTH
Size	Tablesiz(L*W)	mm	1500x400	1515x470	1515x470	1515x470
Travel	Xaxistravel	mm	1300	1300	1300	1300
	Yaxistravel	mm	500	600	600	600
	Zaxistravel	mm	580	600	600	600
	Aaxistravel	mm	370		370(OP:500)	370(OP:500)
Slideway width	Yslidewaywidth	mm	620	720	720	720
	Zslidewaywidth	mm	420	420	420	420
Spindle	Spindletaper		NT#40(BT)	NT#40(BT)	NT#40(BT)	NT#40(BT)
	Spindlemotor	HP/P	5/4	5/4	5/4	5/4
	Spindlespeed	rpm	70-360	70-3600	70-3600	75-3600
	Feedingspeed	mm/min	10-6000	10-6000	10-6000	10-6000
	Hori.Spindel	rpm	57-3600		75-3600	57-1227
Others	Ballscree		Ø32mm P=5 C3	Ø32mm C7	Ø32mm C3	Ø32mm C3
	Netweight	kgs	3500	3200	3500	3500

MODEL	ITEM	UNIT	MX	
			MX-3BTS	MX-1575
Travel	X/Y/Z Axis	mm	1300/600/550	1500/750/600
	Spindle nose to table surface	mm	150-700	170-800
	Spindle center to column surface	mm	606	770
Table	Table size(L*W)	mm	1515*470	1850*650
	T-slots(Width*No.)	mm	18*5	18*5
	Table load	kg	800	1000
Spindle	Spindle taper		BT-40	BT-40(BT-50)
	Spindle speed(Belt)	rpm	8000	8000(6000)
Motor	Spindle motor	kw	11	11
	X/Y/Z(A)Servo motormotor	kw	1/1/1/(1)	2/2/2/(1)
Feed	X/Z(A) Servo motormotor	m/min	6/6/6/(1.2)	6/6/6/(1.2)
	X/Y/Z(A)Cutting feed rate	m/min	5/5/5/(1)	5/5/5/(1)
	X/Y/Z(A) JOG feed rate	m/min	4/4/4/(1)	4/4/4/(1)
Magazine	Max.tool dia./ with adjacent tool	mm	ø78/ø150 (side milling)	ø78/ø150 (side milling)
	Max.tool weight	kgs	8	8
	Max.tool length	mm	250	250
	Tool Capacity	T	24	24
Others	Position accuracy	mm	±0.008/300	±0.008/300
	Repeatability accuracy	mm	±0.005	±0.005
	Pneumatic unit	kg/cm2	6	6
	Power	mm	20	25
Weight/Size	Floor space(LxWxH)	mm	Max 3565*2504*2630	Max 4610*2658*2781
	Packing size(LxWxH)	kgs	1882x2400x2450	2250x2700x2520
	N.W/G.W	kva	4000/4150	5780/6000

MX					
MX-3BG-50	MX-5BT(HIGHER)	MX-5-50H	MX-5B-50H	MX-6BG-40HK	MX-6B-50H
1515x470	1850x650	1850x650	1850x650	2600x650(800)	2600x650(800)
1300	1500	1500	1500	2400	2400
600	800	800	800	800	800
600	670	670	670	670	670
		570	570	570	570
720	1000	1000	1000	1000	1000
420	500	500	500	500	500
NT#50(BT)	NT#40(BT)	NT#50(BT)	NT#50(BT)	NT#40(BT)	NT#50(BT)
7.5/4	5/4	7.5/4	7.5/4	7.5/4	7.5/4
62-1100	75-3600	40-3000	40-3000	62-1100	40-3000
	10-6000	10-6000	10-6000	10-6000	10-6000
10-6000		62-1100	62-1100	75-3600	62-1100
Ø32mm C3	Ø40mm P=8 C5	Ø40mm P=8 C5	Ø40mm P=8 C5	Ø40mm P=8 C5	Ø40mm P=8 C5
3200	5200	5500	5500	6800	6800

- All specification, design and characteristics shown on this catalogue are subject to change without prior notice.

## Standard Accessories :

- MPG Hand Wheel
- Auto Lubrication Pump
- Table Enclosed Guard
- Coolant Pump System
- Spindle Blast
- Spindle Oil Coolant(MX-1360、MX-1575)
- Electrical Cabinet Air Conditioner(MX-1360、MX-1575)
- Auto Power Off
- AlarmLights
- LED Working light\*2
- Level Pads And Level Bolts
- USB
- Tool Box & Tools
- Operayion Manual

## Optional Equipment :

- H Horizontal Type Machining Structure
- HK Horizontal Type Machining Structure
- Manual Hand Wheel\*2(X,Y)
- Coolant Spear
- CNC Rotary Table
- Interface For CNC Rotary Table
- Tranformer
- Stainle Belt Type Oil Skimmer
- Half Cover Enclosed Guard
- Full Cover Enclosed Guard