

# B BMDX SERIES CNC ENGRAVING MACHINE

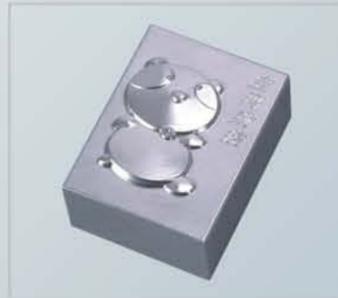
## BMDX系列数控雕铣机

### ► Main Application and Capacity

This machine composed carving function and milling function, spindle speed is high and rapid speed is fast, it can engrave precision drawing and emboss on kinds of material like aluminum, brass, steel and nonmetal material. Meanwhile this machine with milling function, can make precision machining to improve efficiency.

Use for making mould, carve industry

Excellent Design,  
Suitable for Mould Industry!



**BMDX5040**  
Engraving and Milling Machine



**BMDX6050**  
Engraving and Milling Machine



**BMDX120100**  
Engraving and Milling Machine

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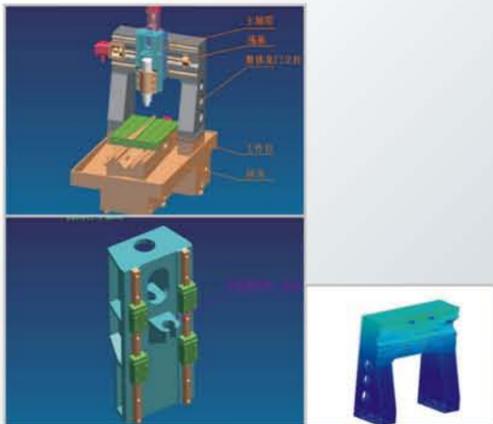
### ► Main Characteristic and Capacity

Cast: Use of mechanite cast iron GC40 (Gc275)

Mechanite cast iron GC40 is suitable for casting with thickness 10–15mm. This kind of casting is good in compact structure, good intensity, suitable hardness, low coefficient of friction, it has feature of self-lubricating, after quenching treatment, and it is widely used as workpiece which have friction of its surface, such as machine tools bed, seat, working table, and cylinder, and so on.

#### ◆ Steady, rigid structure

1. Gantry structure characteristic improve machine strength and rigid greatly
2. Adopt the most advanced limited unit analysis software to do dynamic imitation and analyze various data. Such method makes sure the best structure rigidity, mechanical precision and machining stability.
3. Adopt high quality mechanite cast iron, make anneal and double treating to eliminate stress
4. Z nut fixture and workingtable whole body design to get great rigid
5. Heavily machine make sure good steady
6. X, Y, Z adopt Japan NSK ball screw and bear



#### ◆ High speed, high efficiently precision machining

1. High speed precision spindle, RPM can reach 24000
2. adopt precision line guide way to get good precision
3. adopt precision ball screw
4. oil cooler for spindle(optional)

#### ◆ Friendly operation environment

- Appearance design
- Oil-water separation design
- Chip conveyor design
- Safe and simply operate table

#### ◆ Electrical

- Advanced CNC controller
- SYNTEC system
- With fast, steady, friendly characterizes, especially when adopt DNC, CNC can deal with program created by CAD/CAM/CAXA in advance, so it can cancel useless point to effect working speed and machine life
- Other optional controller: LNC

#### ◆ Standard accessories:

1. Auto lubrication system
2. Full closed sheet metal cover
3. Three color alarming lamp
4. Foundation block
5. Operation and maintenance manual
6. Composite fixing plate
7. flat clamp
8. ER25 clamp  $\phi 4$ –  $\phi 12$

#### ◆ Optional spare parts

1. Oil chiller for spindle
2. Tool presetter
3. Assistant working table
4. 4th Axis
5. Magazine



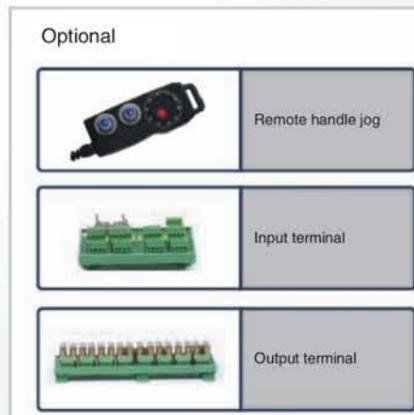
# B BMDX SERIES CNC ENGRAVING MACHINE

## BMDX系列数控雕铣机

### Taiwan Syntec940i Control System

1. High brightness LCD
2. Support FLOPPY & Rs232& 10/100 Mbps Ethernet
3. Four full servo axes (P command), hand wheeler special linker
4. Stander I/O 32 INPUT, 32 OUTPUT
5. 12 Bit D/A voltage output to control spindle
6. Mini controller box
7. Adopt Syntec stander controller function in mini controller box
8. Second controller panel for mill machine
9. General Specifications: (SK3)
10. Metal key with anti oil characterizes
11. Syntec stander keyboard design
12. 35 keys controller panel
13. Two units whirl switch (can add one more unit)
14. Independent INPUT/OUTPUT points for setting

### SYNTEC Separate Whole Body Controller



### LNC Control System

- 1.No limit memory store
- 2.Support any program name
- 3.Hand wheel control feeding function(hand wheel simulate run to check program )
- 4.10 groups high speed and high precision setting(r1-r10)
- 5.Keep to original point when resart
- 6.Support of card
- 7.Connect to computer through internet to upload and download processing files
- 8.Support hard disk and usb
- 9.See program in advance
- 10.Internet disk share function
- 11.2d cad/cam function(make drawing easily and directly)
- 12.With autocad dxf transfer function
- 13.Execute programs batch by batch
- 14.Check circle error function
- 15.Figural dialogue
- 16.Operate simply
- 17.Multi language
- 18.Design interface as customer requirement
- 19.Monitor machine processing condition through internet
- 20.Reasonable interface design
- 21.More coordinate system to make setting position easily
- 22.Lnc520i adopt integration design, make operation key and Panel together with excellent operation
- 23.High speed and high precision characteristic as follow:
  - 1)Precise checking function
  - 2)Raise and down speed automatically to get more high efficiency
  - 3)Start process at any position
  - 4)Make center line automatically
  - 5)Super big memory store, advanced internet connection function
  - 6)Color lcd
  - 7)Read g code directly



# B BMDX SERIES CNC ENGRAVING MACHINE

## BMDX系列数控雕铣机



CNC Engraving & Milling Machine Testing

### Specification

Parameter		BMDX5040	BMDX6050	BMDX8060	BMDX10080	BMDX120100
Travel/space	X/Y/Z axis travel (mm)	400/500/210	500/600/260	600/800/350	800/1000/450	1000/1200/550
	Table upper surface to spindle nose end face (mm)	350	400	430	590	690
Accuracy	Positioning (mm)	± 0.005/300	± 0.005/300	± 0.005/300	± 0.005/300	± 0.005/300
	Re-positioning accuracy (mm)	± 0.003/300	± 0.003/300	± 0.003/300	± 0.003/300	± 0.003/300
Table	Table dimension (mm)	420 × 600	550 × 700	650 × 900	850 × 1100	1050 × 1300
	Max. load on table (kg)	200	400	500	700	800
	Drive Power (X Y Z) (KW)	0.75, 0.75, 0.75	0.85, 0.85, 0.85	0.85, 0.85, 0.85	1.8, 1.8, 1.8	1.8, 1.8, 1.8
	T shape groove (mm)	14T × P80 × 5	14T × P100 × 5	14T × P100 × 5	18T × P120 × 7	18T × P150 × 7
Spindle	Spindle speed/Taper hole (rpm/KW)	24000rpm/2.2KW/ER20 Tool dia $\phi$ 3.175- $\phi$ 16	24000rpm/4KW/ER25 or 18000rpm/5KW/BT30 Tool dia $\phi$ 3.175- $\phi$ 16	24000rpm/4KW/ER32 or 18000rpm/5KW/BT30 Tool dia $\phi$ 3.175- $\phi$ 20	18000rpm/7.5KW/BT30	18000rpm/7.5KW/BT30
Feed supply speed	Rapid speed (X, Y, Z) (mm/min)	10000	10000	10000	15000	15000
	Cutting speed (X, Y, Z) (mm/min)	6000	6000	6000	6000	6000
Outer size and weight	Machine height (mm)	1750	2050	2600	2900	3050
	Floor space (mm)	1600 × 1560	1894 × 1910	2000 × 2700	2500 × 2850	2700 × 3045
	Net weight (kg)	2000	3000	3800	6500	7500
Power	(KW)	12	14/16	14/16	22	22



CNC Engraving & Milling Machine Workshop



CNC Engraving & Milling Machine Workshop



CNC Engraving & Milling Machine Testing



CNC Engraving & Milling Machine

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### Main Parts

No.	Item	Specification	Manufacturer
01	Main machine	Adopt Germany designed, the casting made by STK( Japanese) company. Which improve the rigidity 15%~30%	
02	Guide way	X,Y,Z adopt Taiwan ball line guide way(width as 30mm)	Taiwan Hiwin,or PMI
03	Ball screw	X,Y,Z adopt P3 grade ball screw (diameter as 25mm,screw lead as 5mm)	Taiwan Hiwin
04	Ball nut type	Flange type double nut	
05	Bearing type	Adopt NSK 7203 and FAG6203	Japan NSK, Germany FAG
06	Coupling	X,Y,Z adopt cinquefoil type	American LOVEJOUY
07	Servo motor	SGMGH-09ACA61/6C电机	Japan Panasonic or YASKAWA
08	Servo controller	SGDM-10ADA	Japan Panasonic or YASKAWA
09	Variable frequency spindle	GDS4000 4Kw speed as 3000~24000	Jiangsu xingcheng
10	Convertor	V5-H-4T3.7G/5.5L-H3	Shenzhen Lanhaihuateng
11	Control system	SYNTEC9401 LNC520i FAGOR	Taiwan Syntec, Taiwan LNC Spain
12	Lubricating pump	2 litre	Hade
13	Oil chiller for spindle	MCO15C-03	Sanhe tongfei
14	Tools presetter	PYZ-66	TAIWAN
15	Tools magazines	Armless 10 pcs	TAIWAN
16	4th Axes	FK15110A	YANTAI

Our company reserves the right to change manufacturers when purchase the same quality parts

### Packing List

No	Item	Specification	Quantity	Mark
01	Main machine		1	Include Electrical box
02	Cooler tank		1	
03	Foundation		6	
	Screw	M20X1.5	6	In box
	Foundation nut		6	On machine
	Nut		6	
	Gasket	φ20	6	
04	Document box			
	Manual		1	
	Quality document		1	
	Controller system manual		1	
	Handle wheel		1	
	Three color alarming lamp		1	On machine
	Working lamp		1	On machine
05	Accessories			
	Er25 tools holder		1	
	Compose pressure board	M12	1	
	Transfer line		1	
	Cutting working fluid	Rate 1: 20	10 Litre	
	Spindle working fluid	Rate 1: 20	10 Litre	

### Purchased Parts Photos

