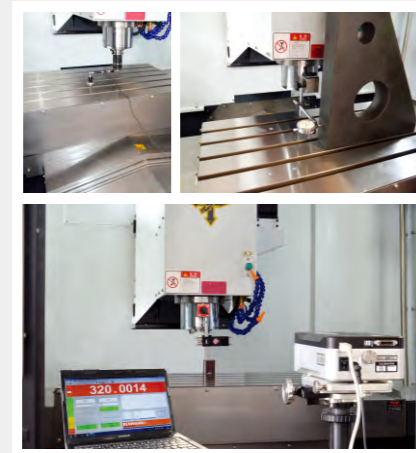


VERTICAL MACHINING CENTER

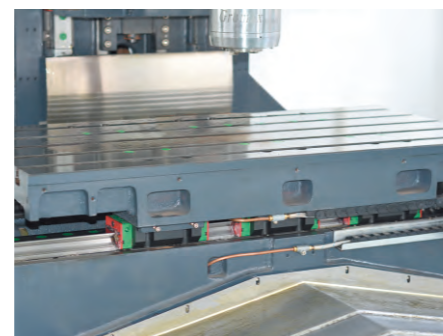
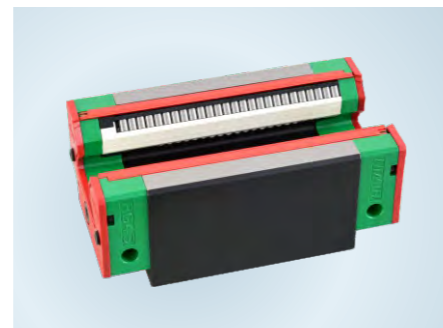


X/Y/Z axis travel	800x500x600mm
Worktable size	1000x550mm
Spindle nose to worktab	140-740mm
Spindle	BT40/7.5kw/12000rpm
Controller	Syntec(Mitsubishi Or Fagor)



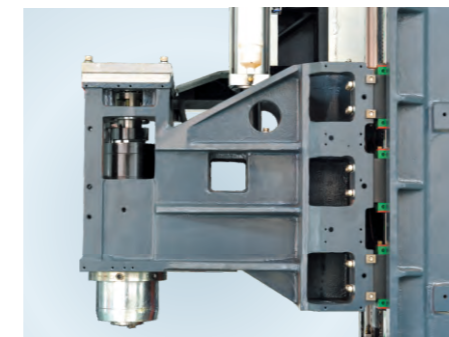
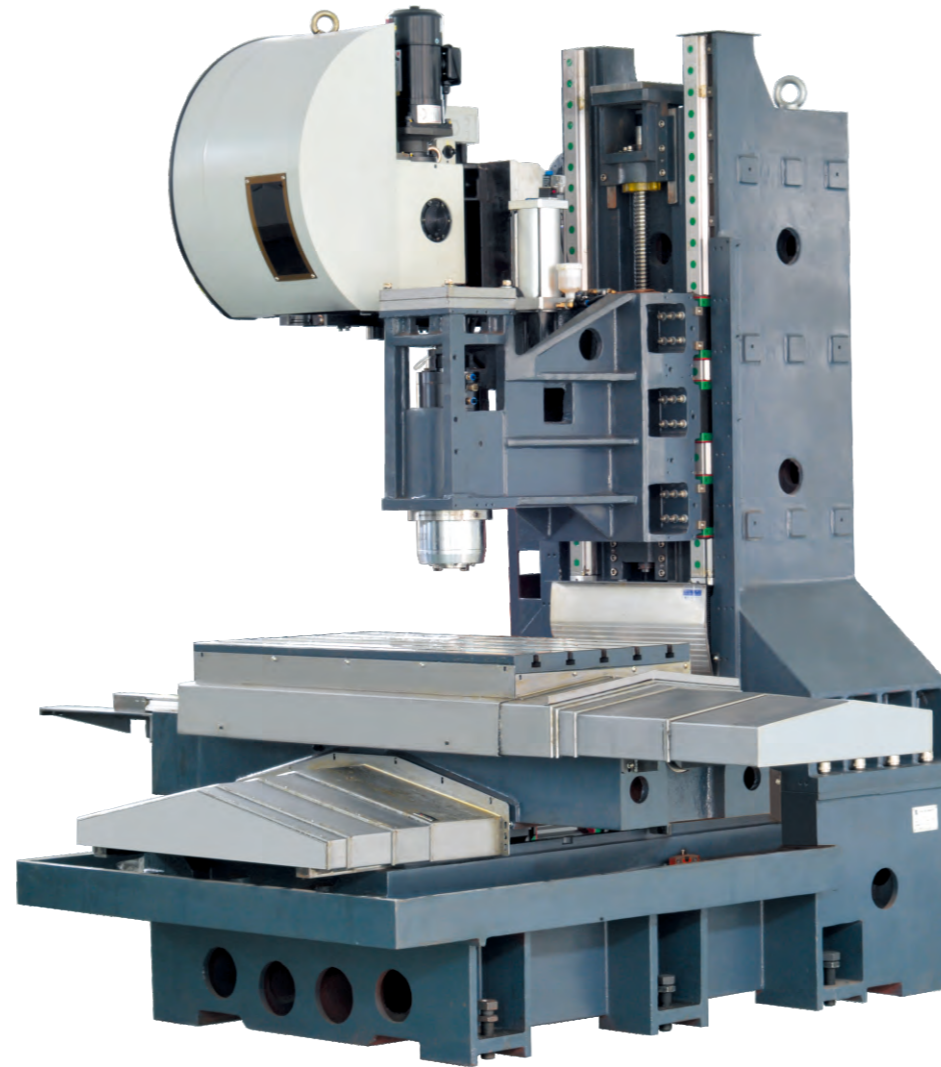
Controller

Options for the controller: FANUC, Mitsubishi from Japan and Syntec from Taiwan are all acceptable.



Linear guide

Linear guide adopts pin roller(Cylindrical roller) as the moving media. Three slide block, increase machine bearing capacity and rigidity.



Spindle seat

Whole-part spindle seat design. Big power spindle motor and inclined ribs across the seat makes the spindle more powerful in milling.



Column

Closed frame structure body, adopts inclined ribs improve the column bending capacity. ATC seat and column are casted into one piece, makes the ATC not easily moved. At the same time makes the column more stable.

Main parameters of Kaibo VMC

Parameter/Model	FH-850L	FH-1160L
(Repeat) Positioning accuracy	(0.01mm) 0.01/300mm	(0.01mm) 0.01/300mm
Worktable size	1000*550mm	1200*600mm
T-slot size	5T-18-100mm	5T-18-100mm
Max. load	600Kg	800Kg
X/Y/Z axis travel	800/500/600mm	1100/600/600mm
Spindle nose to worktable	140-740mm	120-720mm
Spindle center to Column	620mm	680mm
Max. feeding speed G00	36/36/24m/min	20m/min
X/Y/Z axis motor power	2.0/2.0/3.0kw	3.0/3.0/3.0kw
Spindle	BT40/7.5kw/12000rpm	BT40/11kw/12000rpm
ATC(Opt.)	Arm type 24pcs	Arm type 24pcs
Power supply and total capacity	3P/380V/50Hz/20KVA	3P/380V/50Hz/25KVA
Machine weight	5000Kg	7500Kg
Dimension	2600*2300*2600mm	3000*2600*2700mm
Controller	Syntec 21MA/Taiwan	Syntec 21MA/Taiwan
Linear guide way	35/45/45 Hiwin,PMI/Taiwan,Rexroth/German	45 Hiwin,PMI/Taiwan,Rexroth/German
Ball screw	4012 Hiwin,PMI/Taiwan,THK/Japan	4012 Hiwin,PMI/Taiwan,THK/Japan
Oil Coolant Chiller	Parsonthor/China	Parsonthor/China

Parameter/Model	FH-1370L	FH-1690LH
(Repeat) Positioning accuracy	(0.01mm) 0.01/300mm	(0.01mm) 0.01/300mm
Worktable size	1400*700mm	1800*900mm
T-slot size	6T-18-125mm	5T-22-160mm
Max. load	1000Kg	3000Kg
X/Y/Z axis travel	1300/700/650mm	1600/900/800mm
Spindle nose to worktable	100-750mm	180-980mm
Spindle center to Column	755mm	1010mm
Max. feeding speed G00	30m/min	20/20/15m/min
X/Y/Z axis motor power	3.0/3.0/3.0kw	3.0/3.0/3.0kw
Spindle	BT40/11kw/12000rpm	BT40/15kw/6000rpm
ATC(Opt.)	Arm type 24pcs	Arm type 24pcs
Power supply and total capacity	3P/380V/50Hz/25KVA	3P/380V/50Hz/30KVA
Machine weight	8600Kg	11000Kg
Dimension	3600*2600*2700mm	3990*3035*2960mm
Controller	Syntec 21MA/Taiwan	Syntec 21MA/Taiwan
Linear guide way	45 Hiwin,PMI/Taiwan,Rexroth/German	45 Hiwin,PMI/Taiwan,Rexroth/German
Ball screw	4012 Hiwin,PMI/Taiwan	5010 Hiwin,PMI/Taiwan
Oil Coolant Chiller	Parsonthor/China	Parsonthor/China



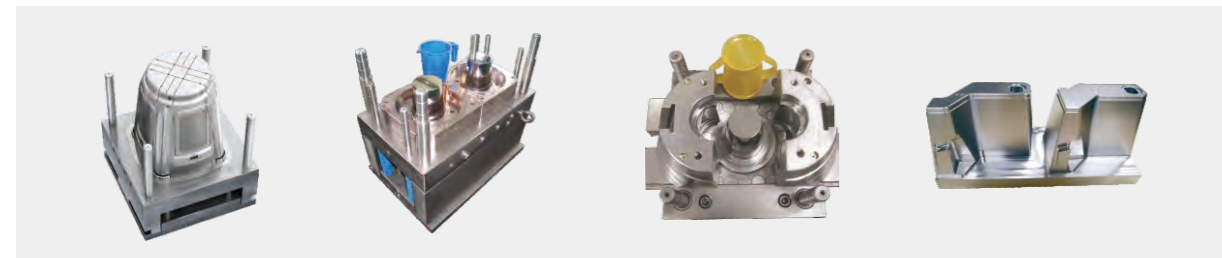
KAIBO CNC



Ningbo Kaibo CNC Machinery Co., Ltd.
 Add: Changjie EDA Ninghai Zhejiang China
 Tel: +86 574 65311789
 Web: www.kaibocnc.com
 Email: info@kaibocnc.com

FEATURES

Kaibo VMC is equipped with a closed frame structure body. It adopts inclined ribs to make the machine strong. Advanced designs ensure the rigidity and stable for Kaibo VMC. High-precision linear guide way and screw are not only good for feeding and accuracy, but also give the machine a big bearing capacity. Kaibo VMC is also suitable for finishing jobs with a 12000rpm high speed spindle. Several options for controller: FANUC, Mitsubishi from Japan and Syntec from Taiwan are all acceptable.



KAIBO CNC



About Us

Ningbo Kaibo CNC Machinery Co., Ltd. grew out of Ninghai Feihe Engraving Machinery Factory which was established in 1994. In 2003, KAIBO officially established. Kaibo is located in Changjie EDA, Ninghai County, Ningbo City, Zhejiang Province, China. Which is not far from Shanghai.

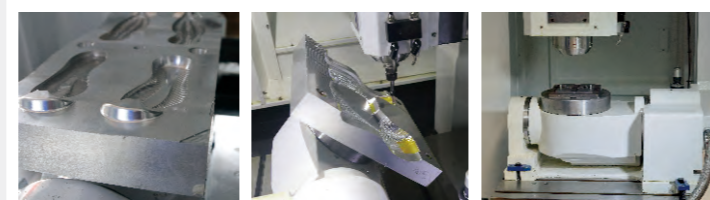
Kaibo is a high-tech enterprise integrating R&D, manufacturing and marketing. With more than 52,000 m factory area and more than 360 staffs. Kaibo specializing in the production of 3/4/5 axis VMC and CNC Engraving Milling Machines. Kaibo machines are popularly welcomed in different mold industries and scored well across the world. In the past few years, Kaibo sold more than 1500 sets machines per year.

For now Kaibo has 26 sales-service offices in various cities in China and overseas, to provide customers with highly efficient and convenient service.

As 《CNC Engraving Milling Machine》 Standard Setter, KAIBO get the “Famous brand” in Zhejiang Province.

History

1. 1994 Ninghai Feihe Engraving Machinery Factory was founded.
 2. 2000 Start to manufacture CNC Engraving Milling Machine with “Feihe” brand.
 3. 2003 Ningbo Kaibo CNC Machinery Co., Ltd. was founded.
 4. 2004 Move to Changjie EDA with 52000m.
 5. 2005 New factory building integrating R&D, manufacturing and marketing was founded.
 6. 2007 Sales achieve 100 million
 7. 2008 Honored as High-tech Enterprise by Chinese government.
 8. 2009 Formulate 《CNC Engraving And Milling Machine》 National Standard.(GB/T2009-24109)
 9. 2009 New designed 3/4/5 axis gantry-type machines were launched to market.
 10. 2009 Sales achieve 200 million
 11. 2013 Honored as Famous Brand in Zhejiang Province. (Famous brand in Ningbo City in 2007.)
 12. 2015 Start to develop overseas market.
 13. 2016 New building integrating working, living and entertainment put into use.
 14. 2017 Achieve 26 offices across whole China.
 15. 2018 New workshops in building.
- Kaibo is developing steadily and rapidly...



X/Y/Z axis travel	600/600/260mm
Spindle nose to worktable	330-590mm
Spindle	BT30/5.5KW/24000rpm
Controller	Syntec 21MA/Taiwan
Rotary table diameter	250mm
Height of rotary center	135mm
Fixed type in rotary table	Electromagnet



Electronic hand wheel-Future/Taiwan



AC servo motor(Driver)-Yaskawa/Japan



Spindle inverter-Inovance/China



Lubrication system-ISHAN/Taiwan



X/Y/Z axis travel	600/600/360mm
Worktable size	605*605mm
Spindle nose to worktable	70-430mm
Spindle	ER20/5.5KW/24000rpm
Controller	Syntec 21MA/Taiwan



SPECIFICATIONS

Parameter/Model	DC-6040	DC-6050	DC-6060
(Repeat) Positioning accuracy	(0.005mm) 0.01/300mm	(0.005mm) 0.01/300mm	(0.005mm) 0.01/300mm
Worktable size	625*450mm	600*530mm	610*600mm
T-slot size	4T-12-120mm	5T-12-105mm	5T-16-125mm
Max. load	150Kg	250Kg	300Kg
X/Y/Z axis travel	600/400/170mm	600/500/160mm	600/600/260mm
Gantry width	705mm	660mm	700mm
Beam to worktable	300mm	380mm	500mm
Spindle nose to worktable	90-230mm	170-330mm	130-390mm
Max. feeding speed G00	12m/min	12m/min	12m/min
X/Y/Z axis motor power	750w/750w/750w	750w/750w/750w	850w/850w/850w
Spindle motor power	ER20/3KW/21000rpm	ER20/3KW/21000rpm	ER25/5.5KW/24000rpm
ATC(Opt.)	Straight-row type 6pcs	Straight-row type 6pcs	Arm type 16pcs
Power supply and total capacity	3P/380V/50Hz/9KVA	3P/380V/50Hz/9KVA	3P/380V/50Hz/12KVA
Machine weight	2100Kg	2500Kg	4200Kg
Dimension	1910*1730*1910mm	1850*1800*1910mm	2200*1800*2200mm
Controller	Syntec 21MA/Taiwan	Syntec 21MA/Taiwan	Syntec 21MA/Taiwan
Linear guide way	25 Hiwin,PMI/Taiwan	30 Hiwin, PMI/Taiwan	30 Hiwin,PMI/Taiwan
Ball screw	2005/2005/2505 Hiwin,PMI/Taiwan	2505 Hiwin,PMI/Taiwan	2810 Hiwin,PMI/Taiwan
Oil Coolant Chiller	Opt.	Opt.	Parsonthor/China

Parameter/Model	DC-8070	DC-1090	DC-1113
(Repeat) Positioning accuracy	(0.005mm) 0.01/300mm	(0.01mm) 0.01/300mm	(0.01mm) 0.01/300mm
Worktable size	800*700mm	1000*900mm	1100*1300mm
T-slot size	6T-16-120mm	5T-18-180mm	6T-18-185mm
Max. load	800Kg	1000Kg	2000Kg
X/Y/Z axis travel	800/700/300mm	1000/900/400mm	1100/1300/400mm
Gantry width	900mm	1110mm	1140mm
Beam to worktable	550mm	650mm	660mm
Spindle nose to worktable	120-420mm	155-555mm	150-550mm
Max. feeding speed G00	12m/min	12m/min	12m/min
X/Y/Z axis motor power	1300w/1300w/1300w	1300w/1300w/1300w(1800wBT40)	1800w/1800w/1800w
Spindle motor power	ER32/8KW/18000rpm	ER32/8KW/15000rpm	BT40/7.5kw/12000rpm
ATC(Opt.)	Arm type 24pcs	Arm type 24pcs	Arm type 24pcs
Power supply and total capacity	3P/380V/50Hz/15KVA	3P/380V/50Hz/20KVA	3P/380V/50Hz/20KVA
Machine weight	4600Kg	5600Kg	7500Kg
Dimension	2450*2030*2460mm	2900*2240*2700mm	3200*2450*2800mm
Controller	Syntec 21MA/Taiwan	Syntec 21MA/Taiwan	Syntec 21MA/Taiwan
Linear guide way	35-45-35 Hiwin,PMI/Taiwan	45 Hiwin,PMI/Taiwan	45 Hiwin,PMI/Taiwan
Ball screw	3210 Hiwin,PMI/Taiwan	4010 Hiwin,PMI/Taiwan	4010 Hiwin,PMI/Taiwan
Oil Coolant Chiller	Parsonthor/China	Parsonthor/China	Parsonthor/China

Note: ER16(φ3.17-φ8) ER20(φ3.17-φ12) ER25(φ3.17-φ16) ER32(φ3.17-φ20)

SPECIFICATIONS

Parameter/Model	DC-1317	GV-1317	DC-1520
(Repeat) Positioning accuracy	(0.01mm) 0.01/300mm	(0.01mm) 0.01/300mm	(0.01mm) 0.01/300mm
Worktable size	1300*1700mm	1300*1700mm	1500*2000mm
T-slot size	7T-18-190mm	7T-18-190mm	6T-12-180mm
Max. load	2000Kg	3000Kg	3000Kg
X/Y/Z axis travel	1300/1700/500mm	1300/1700/720mm	1500/2000/720mm
Gantry width	1360mm	1450mm	1600mm
Beam to worktable	700mm	950mm	900mm
Spindle nose to worktable	150-650mm	140-860mm	135-855mm
Max. feeding speed G00	12m/min	30m/min	12m/min
X/Y/Z axis motor power	2900w/2900w/2900w	3000w/3000w/3000w	4400w/4400w/4400w
Spindle motor power	BT40/7.5kw/12000rpm	BT40/HSK63A/11KW/12000rpm	BT40/15KW/8000rpm
ATC(Opt.)	Arm type 24pcs	Arm type 24pcs	Arm type 24pcs
Power supply and total capacity	3P/380V/50Hz/30KVA	3P/380V/50Hz/40KVA	3P/380V/50Hz/30KVA
Machine weight	12000Kg	15000Kg	17000Kg
Dimension	4520*2600*2880mm	4600*2600*3000mm	5000*3040*3230mm
Controller	Syntec 21MA/Taiwan	Fanuc/Japan	Syntec 21MA/Taiwan
Linear guide way	45 Hiwin,PMI/Taiwan	45 Hiwin,PMI/Taiwan	55 Hiwin,PMI/Taiwan
Ball screw	5010/5010/4010 Hiwin,PMI/Taiwan	5010/5010/4010 Hiwin,PMI/Taiwan	5010 Hiwin,PMI/Taiwan
Oil Coolant Chiller	Parsonthor/China	Parsonthor/China	Parsonthor/China

Parameter/Model	GV-1530	DC-2025	GV-2040
(Repeat) Positioning accuracy	(0.15mm) 0.01/300mm	(0.15mm) 0.01/300mm	(0.15mm) 0.01/300mm
Worktable size	1500*3100mm	2000*2500mm	1800*4000mm
T-slot size			18T*180*8
Max. load	4000Kg	3000Kg	4000Kg
X/Y/Z axis travel	1500/3000/750mm	2000/2500/720mm	2000/4000/750mm
Gantry width	1800mm	2010mm	2010mm
Beam to worktable	900mm	900mm	900mm
Spindle nose to worktable	150-900mm	135-855mm	150-900mm
Max. feeding speed G00	12m/min	12m/min4400w/	12m/min
X/Y/Z axis motor power		4400w/4400w	
Spindle motor power	BT50/15KW/6000rpm	BT40/11KW/8000rpm	BT40/22KW/12000rpm
ATC(Opt.)	Arm type 24pcs	Arm type 24pcs	Arm type 24pcs
Power supply and total capacity	3P/380V/50Hz/40KVA	3P/380V/50Hz/30KVA	3P/380V/50Hz/30KVA
Machine weight	23000Kg	22000Kg	30000Kg
Dimension	7000*3200*3600mm	6020*3400*3230mm	8000*3500*3500mm
Controller	Fanuc/Japan	Syntec 21MA/Taiwan	Fanuc/Japan
Linear guide way	55 Hiwin,PMI/Taiwan	55 Hiwin,PMI/Taiwan	55(6,8,4/12) Hiwin,PMI/Taiwan
Ball screw	6310/6310/5010 Hiwin,PMI/Taiwan	5510 Hiwin,PMI/Taiwan	6310/6310/5015 Hiwin,PMI/Taiwan
Oil Coolant Chiller	Parsonthor/China	Parsonthor/China	Parsonthor/China

4th/5th axis are optional. Contact us for more information.