

Recruitment of National Agents

Produced by Fudao
Must be a boutique product

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CE certification



High and new technology enterprises

Dongguan Fu Dao General Machinery Co., Ltd.

Buying Fudao Precision Machinery to Be a Life Winner



FOCUS ON HIGH PRECISION CNC MACHINE TOOL PRODUCTION AND MANUFACTURING, DEVELOPMENT AND APPLICATION OF COMPREHENSIVE PROCESSING SCHEME

COMPANY PROFILE

COMPANY PROFILE

The company was founded in Guangdong in 2006, is a high-tech enterprise, science and technology enterprises, credit and contract. With the import and export of machine tools and EU CE certification qualification, the production base is located in Guangdong, Dongguan, Yunnan, Yuxi, Hunan, Jiahe. After years of independent production, research and development and innovation, the brand of **<Fudao Precision Machinery>** has been established in China. At present, the main products of VMC series: Gantry, machining center, profile machine, high-speed machine, drilling machine, horizontal addition, engraving and milling machine; FDL series: CNC lathe, tool tower machine, power tool tower tail top turning and milling compound machine, double spindle turning and milling compound machine, tool row machine. Product raw materials have been adhering to the use of Switzerland, Germany, France, Japan, Taiwan and other well-known manufacturers around the world high precision parts, sales and service satisfaction by customers widely praised, become a number of large domestic enterprises designated gold supplier and machine tool export all over the world.

The **<Fudao Precision Machinery>** brand has been adhering to the three good service tenets of "good quality, good customer trust, and good service" since its establishment. In order to meet the needs of the market and protect the interests of customers, the company is committed to the research and development and production of high-precision technology machine tools, pursuing the top performance of machine tools; providing customers with the most sophisticated industrial machine tools to solve the efficient unity of production and efficiency. The brand products of **<Fudao Precision Machinery>** are widely used in the field of new energy vehicles, power and photovoltaic cells, ICT, military and aerospace medical equipment, metallurgical shipbuilding, metallurgical shipbuilding, mold hardware gear plastic, 3C electronic mobile phone and other professional production industries.



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Fudao Precision Machinery

T able of contents



HIGH SPEED DIE PARTS
MACHINING CENTER

P₀₁₋₀₂



HIGH-SPEED DRILLING AND
PROCESSING CENTER

P₀₅₋₀₆



HIGH RIGIDITY HARD RAIL MOLD
MACHINING CENTER

P₀₉₋₁₀



GANTRY MACHINING CENTER

P₁₃₋₁₆



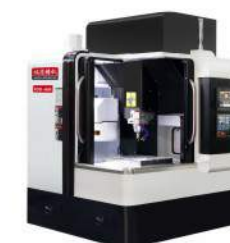
ALUMINUM PROFILE PROCESSING
CENTER

P₀₃₋₀₄



TWO-AXIS RAIL MACHINING CENTER

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HIGH SPEED ENGRAVING AND
MILLING MACHINE

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HORIZONTAL MACHINING CENTER

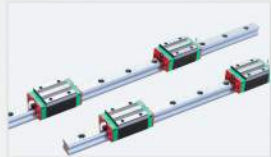
P₁₇₋₁₈

Machining center series

HIGH SPEED DIE PARTS MACHINING CENTER

VMC-V13

With advanced controller, precision high-speed spindle, high-speed high-precision machining.



High speed and high precision
three axis linear guide roller



球杆测试
Cue test



主轴噪声和振动检查
Spindle noise and
vibration checks



激光检测系统
Laser detection system



米汉纳高级铸铁
Mihanna Advanced Cast Iron

Mechanical features:

All V series models are equipped with ultra high precision roller type track, the bed structure is strong, can bear the inertia of the high-speed movement.

The full V series three axis motor rear end seat is assembled by precision shoveling, and then assembled by strict assembly to ensure the stability of the transmission system for a long time.

The design of all V series saddle and worktable. Increase the height of the structure, with light weight, high stiffness characteristics of the fusion speed and structural stability of the perfect design, reserved for the installation of fourth, five axis NC space.

The full V series uses the super base and the column, the ultra wide slideway span, strengthens the machine bottom quality and the Z axis Thick solid structure, and the use of motor braking system to ensure that the high-speed movement and the cutting process does not shake. High rigidity double nut ball screw, driven by high power axial servo.

Machining Parts Sample



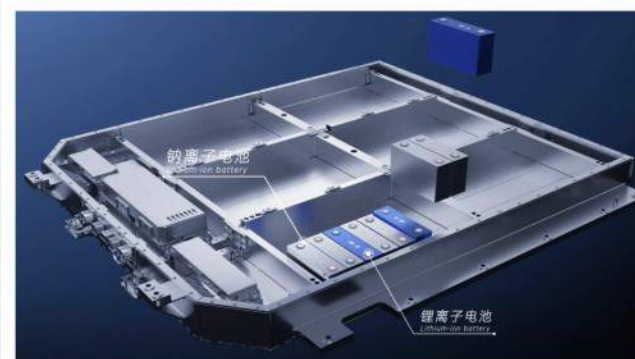
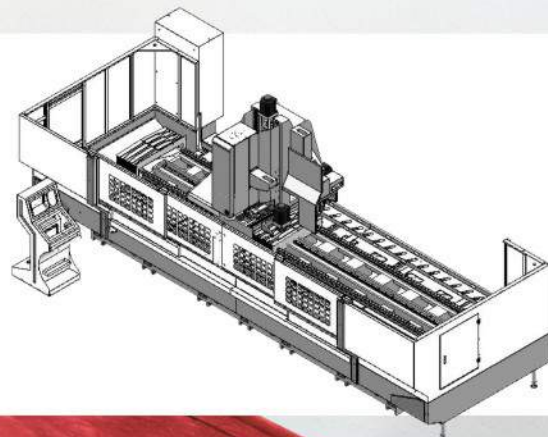
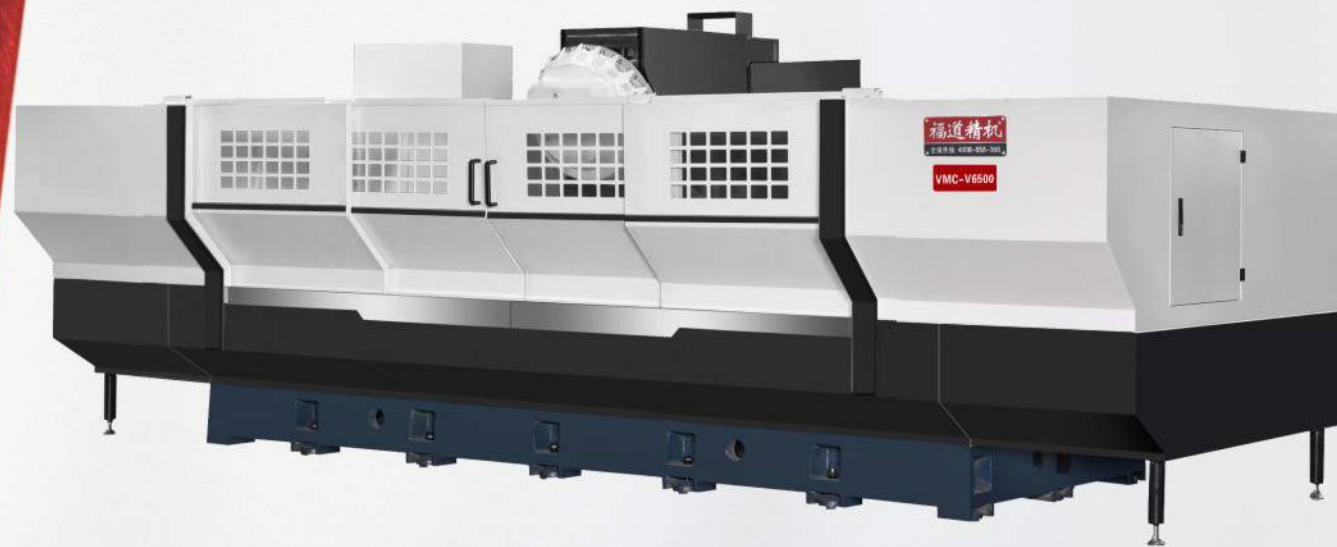
Technical Parameters

Machine data		Unit	VMC-V8	VMC-V855	VMC-V11	VMC-V13
Journey	XYZ axis travel	mm	800/500/500	800/550/550	1100/600/600	1300/600/600
	Distance from spindle end face to work table	mm	150-650	120-670	120-720	120-720
	Distance from the center of the spindle to the protective surface of the column	mm	558	610	660	660
Workbench	Working desk size	mm	1050 × 500	1050 × 500	1200 × 600	1400 × 600
	Workbench load	kg	600	600	800	800
	T-slot (number of slots - size x pitch)	mm	5-18 × 90	5-18 × 90	5-18 × 100	5-18 × 100
Spindle	Spindle taper specification	-	BT40	BT40	BT40	BT40
	Spindle speed (optional)	rpm	12000/15000	12000/15000	12000/15000	12000/15000
	Spindle motor power	kw	7.5/11	7.5/11	7.5/11	7.5/11
Three axis parameters	Three-axis motor power (X/Y/Z)	kw	2.0/2.0/3.0	2.0/2.0/3.0	3.0/3.0/3.0	3.0/3.0/3.0
	X/Y/Z axis rapid traverse speed	m/min	48/48/48	48/48/48	48/48/48	48/48/48
	Cutting feed rate	mm/min	0-15000	0-15000	0-15000	0-15000
Position	Positioning accuracy	mm	±0.005/300	±0.005/300	±0.005/300	±0.005/300
	Repeatability	mm	±0.003/300	±0.003/300	±0.003/300	±0.003/300
Tool magazine	Tool magazine capacity rongl	Put	24	24	24	24
	Tool maximum weight	kg	7	7	7	7
	Maximum tool length	mm	300	300	300	300
	Tool diameter (full tool / adjacent empty tool)	mm	80/150	80/150	80/150	80/150
	Tool magazine form	-	Disc type	Disc type	Disc type	Disc type
Other	Air pressure demand	Kg/cm ²	≥6	≥6	≥6	≥6
	Machine weight	Kg	5500	5800	6800	7000
	Machine size (length × width × height)	m	2.5 × 2.5 × 2.7	2.6 × 2.5 × 2.7	3.2 × 2.7 × 2.85	3.6 × 2.7 × 2.85

The company's machine tools continue to improve research and development, subject to change without notice. This picture is for reference only, subject to the actual product samples.

ALUMINUM PROFILE PROCESSING CENTER

VMC-V6500



Technical Parameters

Machine data		Unit	VMC-V1600	VMC-V2000	VMC-V2500	VMC-V3500	VMC-V4500	VMC-V6500
Journey	X-axis travel	mm	1600	2000	2500	3500	4000	6500
	Y-axis travel	mm	600	680	580	580	580	580
	Z-axis travel	mm	600	600	600	600	600	600
	Distance from spindle end face to work table	mm	120-720	120-720	120-720	120-720	120-720	120-720
	Distance from the center of the spindle to the protective surface of the column	mm	660	700	660	660	660	660
Workbench	Working desk size	mm	1700×600	2100×600	3100×500	4000×500	5000×550	7000×550
	Workbench load	kg	650	650	650	650	650	800
	T-slot (number of slots - size x pitch)	mm	5-18×114	5-18×114	4-18×106	4-18×106	5-18×100	5-18×100
Spindle	Spindle taper specification	-	BT40	BT40	BT40	BT40	BT40	BT40
	Spindle speed (optional)	rpm	12000	12000	12000	12000	12000	12000
	Spindle motor power	kw	7.5	7.5	7.5	7.5	7.5	7.5
Three axis parameters	Three-axis motor power (X/Y/Z)	kw	2.0/2.0/3.0	2.0/2.0/3.0	2.0/2.0/3.0	3.0/3.0/3.0	3.0/3.0/3.0	3.0/3.0/3.0
	X/Y/Z axis rapid traverse speed	m/min	48/48/48	48/48/48	48/48/48	24/48/48	24/48/48	24/48/48
	Cutting feed rate	mm/min	0-15000	0-15000	0-15000	0-15000	0-15000	0-15000
Position	Positioning accuracy	mm	±0.005/300	±0.005/300	±0.005/300	±0.005/300	±0.005/300	±0.005/300
	Repeatability	mm	±0.003/300	±0.003/300	±0.003/300	±0.003/300	±0.003/300	±0.003/300
Tool magazine	Tool magazine capacity	Put	24	24	24	24	24	24
	Tool maximum weight	kg	7	7	7	7	7	7
	Maximum tool length	mm	300	300	300	300	300	300
	Tool diameter (full tool / adjacent empty tool)	mm	80/150	80/150	80/150	80/150	80/150	80/150
	Tool magazine form	-	Disc type	Disc type	Disc type	Disc type	Disc type	Disc type
Other	Air pressure demand	Kg/cm ²	≥6	≥6	≥6	≥6	≥6	≥6
	Machine weight	Kg	7200	7500	8500	11000	12000	13500
	Machine size (length × width × height)	m	4.6×2.7×2.76	5.2×2.7×2.76	5.6×2.7×2.65	6.7×2.9×2.65	6.7×2.9×2.65	9.6×2.9×2.65



HIGH-SPEED DRILLING AND PROCESSING CENTER

FD-T1600

Efficient and energy efficient for maximum productivity

In today's fast-changing world, the "life cycle" of products is becoming shorter and shorter, and flexible production methods have become indispensable. To meet these requirements, a new standard has been set up for the drilling and milling machine center, which integrates two highly complex processing technologies into a high-tech machine tool.

The result is: an efficient compact machining center, which uses a system with unique milling performance and provides a faster tool changer than traditional drilling and tapping centers.



The utility model relates to a quick, simple and reliable tool with long service life, which provides a stable and reliable tool exchange action.

The tool changing mechanism has been tested for millions of



Technical Parameters

Machine data		Unit	T-640	T-740	T-10	T-1600	T-2000	T-2500	T-3500	T-4500	T-6500
Journey	XYZ axis travel	mm	600/400/300	700/400/350	1000/500/300	1600/600/350	2000/600/350	2500/580/600	3500/580/600	2000/580/600	6500/580/600
	Distance from spindle end face to work table	mm	150-450	150-480	150-450	150-500	150-500	120-720	120-720	120-720	120-720
	Distance from spindle center to column guide	mm	420	500	600	600	600	660	660	660	660
Workbench	Working desk size	mm	700 × 420	800 × 420	1100 × 500	1700 × 500	2000 × 500	3100 × 500	4000 × 500	5000 × 550	7000 × 550
	Workbench load	kg	300	300	400	600	600	650	650	650	650
	Number of T-slots-dimensions-spacing	mm	3 × 14 × 125	3 × 14 × 125	5 × 18 × 100	5 × 18 × 114	5 × 18 × 114	4 × 18 × 106	4 × 18 × 106	5 × 18 × 100	5 × 18 × 100
Spindle	Spindle taper	-	BT30	BT30	BT30	BT30	BT30	BT30	BT30	BT30	BT30
	Spindle main motor power	kw	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Spindle speed	rpm	20000/24000	20000/24000	20000/24000	20000/24000	20000/24000	20000	20000	20000	20000
Three axis parameters	Three-axis motor power (X/Y/Z)	kw	1.5/1.5/3.0	1.5/1.5/3.0	1.5/1.5/3.0	2.0/2.0/3.0	2.0/2.0/3.0	2.0/2.0/3.0	3.0/3.0/3.0	3.0/3.0/3.0	3.0/3.0/3.0
	X/Y/Z axis rapid traverse speed	m/min	48/48/48	48/48/48	48/48/48	48/48/48	48/48/48	48/48/48	48/48/48	48/48/48	48/48/48
	Cutting feed rate	mm/min	15000	15000	15000	15000	15000	15000	15000	15000	15000
Position	Positioning accuracy	mm	± 0.005	± 0.005	± 0.005	± 0.005	± 0.005	± 0.005	± 0.005	± 0.005	± 0.005
	Repeat targeting	mm	± 0.003	± 0.003	± 0.003	± 0.003	± 0.003	± 0.003	± 0.003	± 0.003	± 0.003
Tool magazine	Tool magazine capacity	Put	16/21	16/21	16/21	16/21	16/21	16/21	16/21	16/21	16/21
	Tool maximum weight	kg	3	3	3	3	3	3	3	3	3
	Maximum tool length	mm	250	250	250	250	250	250	250	250	250
	Tool diameter (full tool / adjacent empty tool)	mm	100/140	100/140	100/140	100/140	100/140	100/140	100/140	100/140	100/140
	Tool magazine form	-	Arm Clamping	Arm Clamping	Arm Clamping	Arm Clamping	Arm Clamping	Arm Clamping	Arm Clamping	Arm Clamping	Arm Clamping
Other	Air pressure demand	Kg/cm ²	≥ 6	≥ 6	≥ 6	≥ 6	≥ 6	≥ 6	≥ 6	≥ 6	≥ 6
	Machine net weight	kg	3500	3600	4800	7200	7500	8500	11000	12000	13500
	Dimensions	m	1.9 × 2.3 × 2.4	2.0 × 2.3 × 2.4	3.2 × 2.5 × 2.6	4.2 × 2.6 × 2.7	5.2 × 2.6 × 2.7	5.6 × 2.7 × 2.7	6.7 × 2.8 × 2.7	6.9 × 2.8 × 2.7	5.2 × 2.7 × 2.7



TWO-AXIS RAIL MACHINING CENTER

VMC-1890L

Processing samples show



- 1** Rail structure are used high-precision precision linear guide, at the same time with high-precision C3 wire ball screw. In response to fast, high positioning accuracy, high torque, low noise AC CNC servo motor.
- 2** Line rail machine structure to move quickly as the basic design starting point for the mass production of components, high precision machining, to maximize the processing efficiency to provide assurance.
- 3** Affect the quality of the whole core components are used the world's top brand-name imported high-quality accessories, to meet customer needs of different materials processing personalized choice.



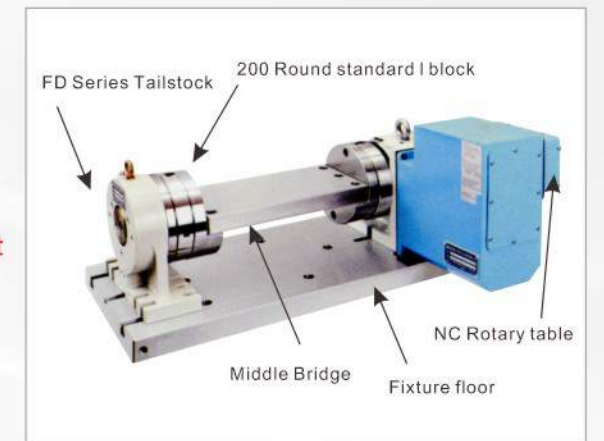
1 Knife arm type tool magazine



2 Fourth axis, built-in rotating shaft

Built in fourth axis rotation speed, high precision, maximum rotation Torque, brake torque, and no backlash, suitable for high precision and high precision machining.

3 Four-axis disc tailstock module



Technical Parameters

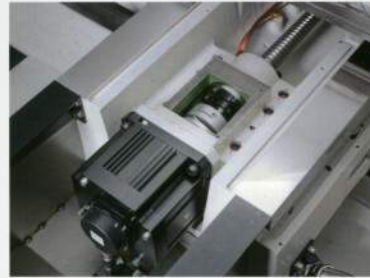
Machine data		Unit	VMC-850L	VMC-1060L	VMC-1270L	VMC-1370L	VMC-1580L	VMC-1690L	VMC-1890L
Journey	X/Y/Z axis travel	mm	800/500/500	1000/600/600	1200/700/600	1300/700/650	1500/800/700	1600/900/600	1800/900/600
	Distance from spindle end face to work table	mm	110-610	70-670	87-687	150-800	130-830	112-712	160-760
	Distance from the center of the spindle to the protective surface of the column	mm	560	655	785	757	810	950	950
Workbench	Working desk size	mm	1000 × 500	1300 × 600	1360 × 700	1500 × 700	1700 × 800	1800 × 900	2000 × 900
	Workbench load	kg	500	1000	1200	1200	1500	1500	1600
	T-slot (number of slots - size x pitch)	mm	5-18 × 90	5-18 × 100	5-18 × 152.5	5-18 × 152.5	5-22 × 140	5-22 × 165	5-22 × 165
Spindle	Spindle taper specification		BT40	BT40	BT40/BT50	BT50	BT50	BT50	BT50
	Spindle speed (optional)	rpm	8000/10000/12000		8000/1000	8000	6000	6000	6000
	Spindle motor power	kw	7.5	11	15	15	18.5	18.5	18.5
Three axis parameters	Three-axis motor power (X/Y/Z)	kw	2.0/2.0/3.0	3.0/3.0/3.0	3.0/3.0/3.0	3.0/3.0/3.0	4.5/4.5/4.5	4.5/4.5/4.5	4.5/4.5/4.5
	X/Y/Z axis rapid traverse speed	m/min	24/24/18	24/24/18	24/24/18	24/24/18	20/20/15	20/20/15	20/20/15
	Cutting feed rate	mm/min	0-10000	0-10000	0-10000	0-10000	0-10000	0-10000	0-10000
Position	Positioning accuracy	mm	±0.005	±0.005	±0.005	±0.005	±0.005	±0.005	±0.005
	Repeatability	mm	±0.003	±0.003	±0.003	±0.003	±0.003	±0.003	±0.003
Tool magazine	Tool magazine capacity rongl	Put	24	24	24	24	24	24	24
	Tool maximum weight	kg	7	7	18	18	18	18	18
	Maximum tool length	mm	300	300	300	300	300	300	300
	Tool diameter (full tool / adjacent empty tool)	mm	80/150	80/150	112/200	112/200	112/200	112/200	112/200
	Tool magazine form	-	Disc type						
Other	Air pressure demand	Kg/cm ²	≥6	≥6	≥6	≥6	≥6	≥6	≥6
	Machine weight	Kg	5200	7500	10500	11000	13500	13500	15500
	Machine size (length × width × height)	m	2.7×2.5×2.8	3.3×2.8×2.9	3.5×3×3.2	3.5×3.1×3.3	3.9×3.3×3.5	4.1×3.5×3.5	4.4×3.5×3.5

The company's machine tools continue to improve research and development, subject to change without notice. This picture is for reference only, subject to the actual product samples.



HIGH RIGIDITY HARD RAIL MOLD MACHINING CENTER

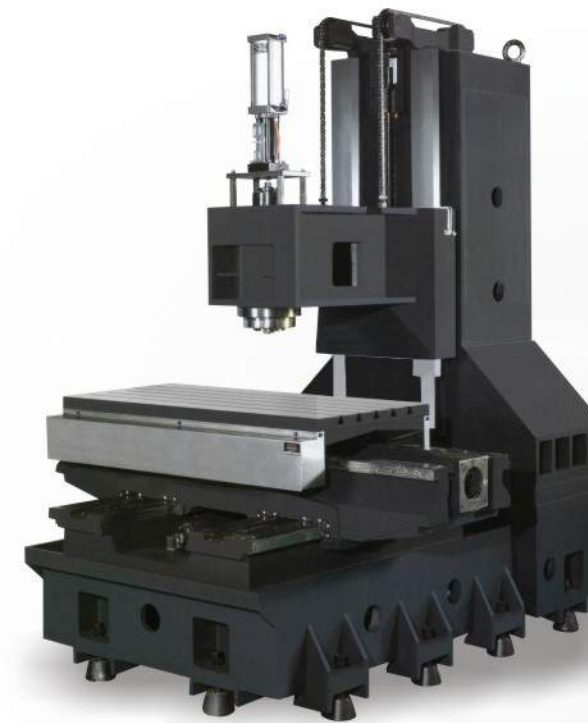
VMC-1580



DIRECT JOINT SERVO DRIVE MOTOR



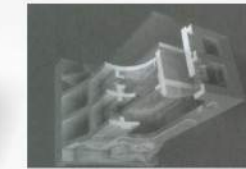
GUIDE PRECISION SCRAPING



1 Short nose design, the use of large ball bearings within the hole, suitable for heavy cutting, open box, guide post holes and other processing.

2 The inner box stiffener is adopted in the spindle box to avoid large vibration and jitter during the movement and processing to ensure the surface finish and machining accuracy.

3 Outside the three layers of ribs structure, to strengthen the spindle head rigidity. Reduce vibration, improve processing accuracy.



Internal rib structure (rice tendons or honeycomb ribs)

Technical Parameters

Machine data		Unit	VMC-850	VMC-1060	VMC-1270	VMC-1370	VMC-1580	VMC-1690	VMC-1890
Journey	XYZ axis travel	mm	800/500/550	1000/600/600	1200/700/600	1300/700/650	1500/800/700	1600/900/680	1800/900/680
	Distance from spindle end face to work table	mm	105-655	180-780	150-750	150-800	170-870	160-840	160-840
	Distance from the center of the spindle to the protective surface of the column	mm	550	600	785	785	810	950	950
Workbench	Working desk size	mm	1050 × 500	1300 × 600	1360 × 700	1400 × 700	1700 × 800	1800 × 900	2000 × 900
	Workbench load	kg	600	1000	1200	1200	1600	1600	1800
	Number of t-slots - size x pitch	mm	5-18 × 90	5-18 × 120	5-18 × 152	55-18 × 152	55-22 × 135	5-22 × 165	5-22 × 165
Spindle	Spindle taper specification	-	BT40	BT40	BT40/BT50	BT50	BT50	BT50	BT50
	Spindle speed (optional)	rpm	8000/10000/12000		8000/10000	8000/10000	6000	6000	6000
	Spindle motor power	kw	7.5	11	15	15	18.5	18.5	18.5
Three axis parameters	Three-axis motor power (X/Y/Z)	kw	3.0/3.0/3.0	3.0/3.0/3.0	3.0/3.0/3.0	3.0/3.0/3.0	4.5/4.5/4.5	4.5/4.5/4.5	4.5/4.5/4.5
	X/Y/Z axis rapid traverse speed	m/min	18/18/16	18/18/16	18/18/16	18/18/16	18/18/16	18/18/16	18/18/16
	Cutting feed rate	mm/min	0-10000	0-10000	0-10000	0-10000	0-10000	0-10000	0-10000
Position	Positioning accuracy	mm	±0.005	±0.005	±0.005	±0.005	±0.005	±0.005	±0.005
	Repeatability	mm	±0.003	±0.003	±0.003	±0.003	±0.003	±0.003	±0.003
Tool magazine	Tool magazine capacity	Put	24	24	24	24	24	24	24
	Tool maximum weight	kg	7	7	18	18	18	18	18
	Maximum tool length	mm	300	300	300	300	300	300	300
	Tool diameter (full tool / adjacent empty tool)	mm	80/150	80/150	112/200	112/200	112/200	112/200	112/200
	Tool magazine form	-	Disc type						
Other	Air pressure demand	Kg/cm ²	≥6	≥6	≥6	≥6	≥6	≥6	≥6
	Machine weight	Kg	5200	7500	10500	11000	13500	13500	15500
	Machine size (length × width × height)	m	28×26×285	33×29×305	35×30×32	36×31×33	39×33×35	41×35×355	44×35×355

The company's machine tools continue to improve research and development, subject to change without notice. This picture is for reference only, subject to the actual product samples.

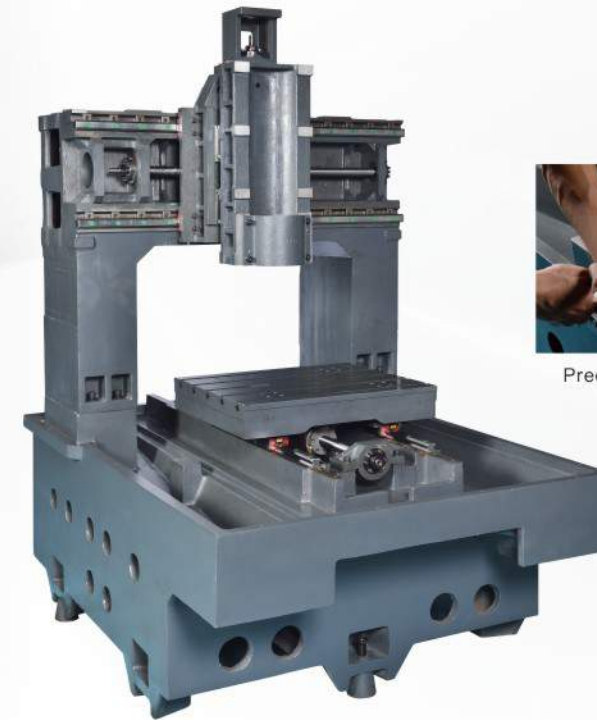
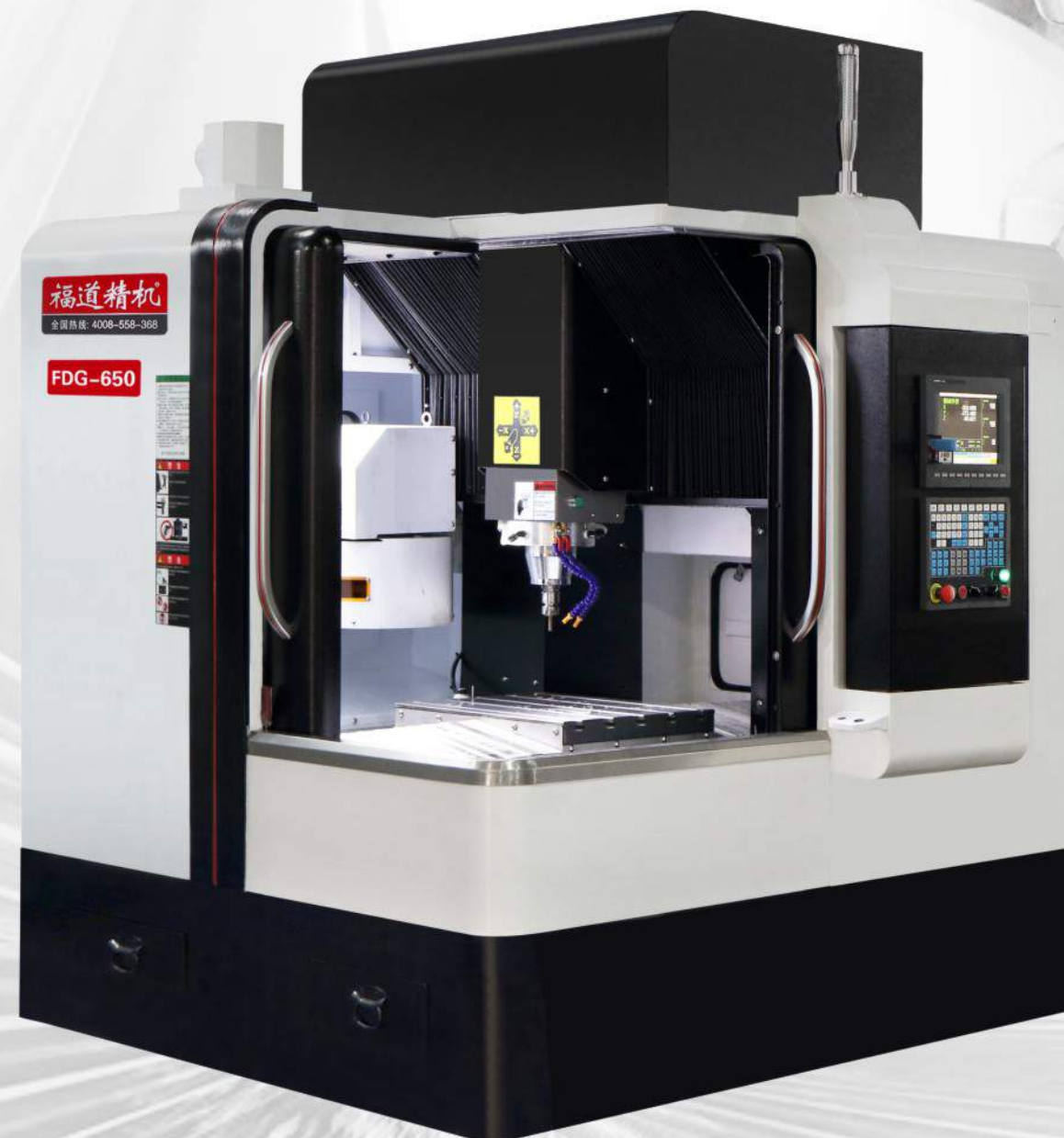


HIGH SPEED ENGRAVING AND MILLING MACHINE

FDG-650

1 Mechanical features:

1. G series engraving and milling machine spindle power, high speed, suitable for high-speed high-precision finishing.
2. Three-axis feed torque, forming a wide range, carrying capacity, can be milling, carving and other workers Pre-processing, suitable for small and medium parts processing.
3. The main structure of the finite element analysis, to achieve the best structural rigidity and stability.
4. Material to achieve high density, shock absorption, good stability, table balance during exercise good sex, heavy cutting anti-seismic ability.
5. Three-axis high-precision ball linear guide with high rigidity, low noise, low friction properties, can do rapid displacement and get the best round precision.



Precision shovel flowers



Pneumatic spindle



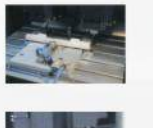
Manual spindle



Hat-style knife library



Cutter-type tool magazine



Machine tool magazine

Technical Parameters

Machine data		Unit	FDG-650	FDG-870	FDG-1080	FDG-1280	FDG-1311	FDG-1512
Journey	The X axis stroke	mm	600	800	1000	1200	1300	1500
	The Y axis stroke	mm	500	700	850	850	1100	1200
	The Z axis stroke	mm	250	350	420	420	420	420
	Distance from spindle face to worktable	mm	80-350	140-430	80-500	80-500	80-500	80-500
Workbench	Size of work table	mm	600 × 500	800 × 700	1000 × 800	1300 × 800	1300 × 1000	1500 × 1200
	Load bearing of table	kg	350	600	800	800	1000	1500
Spindle	Spindle taper specifications	-	BT30	BT40	BT40	BT40	BT40	BT40
	Spindle speed (optional)	rpm	24000	24000	18000	12000/15000	12000/15000	12000/15000
	Spindle motor power	kw	7.5	7.5	7.5/11	7.5/11	7.5/11	7.5/11
Three axis parameters	Three-axis motor power (X/Y/Z)	kw	1.0/1.0/1.0	1.5/1.5/1.5	3.0/3.0/3.0	3.0/3.0/3.0	3.0/3.0/3.0	3.0/3.0/3.0
	The X/Y/Z axis is moving fast	m/min	15/15/15	15/15/15	15/15/15	24/24/24	24/24/24	24/24/24
	Cutting feed rate	mm/min	0-10000	0-10000	0-10000	0-15000	0-15000	0-15000
Position	Positioning accuracy	mm	±0.005/300	±0.005/300	±0.005/300	±0.005/300	±0.005/300	±0.005/300
	Repeated positioning accuracy	mm	±0.003/300	±0.003/300	±0.003/300	±0.003/300	±0.003/300	±0.003/300
Tool magazine	Tool storage capacity (rongl)	Put	12	12	24	24	24	24
	Maximum tool weight	kg	7	7	7	7	7	7
	Maximum tool length	mm	120	120	300	300	300	300
	Tool diameter (full tool/adjacent empty tool)	mm	80/150	80/150	80/150	80/150	80/150	80/150
	Knife library form	-	Bamboo hat style			Disc type		
Other	Air pressure requirements	Kg/cm ²	≥6	≥6	≥6	≥6	≥6	≥6
	Machine weight	Kg	3500	4500	7000	8000	9500	10500
	Machine size (length × width × height)	m	1.9×1.8×2.35	2.1×2.0×2.4	2.8×2.4×2.7	3.3×2.3×2.7	3.5×2.5×2.85	3.9×2.6×2.85

The company's machine tools continue to improve research and development, subject to change without notice. This picture is for reference only, subject to the actual product samples.



GANTRY MACHINING CENTER

LMMC-4032

Mechanical features:

1. Robust cutting power combined with superior accuracy and performance make milling and boring easy.
2. Spindle head can be optional hydraulic locking 90 ° side milling head.
3. Machine bed, columns, beams, saddle, spindle box with resin sand shape of high-strength cast iron and reasonable structure of cloth, good rigidity, stability.
4. The main movement uses a wide speed AC servo motor, optional ZF speed change, making the spindle torque output at low speed, suitable for heavy cutting, high power constant speed for finishing.

Unique cutting force

Superior processing performance





1 Mechanical features:

1. Headstock parts using double hydraulic cylinder balance mechanism to ensure the balance of motion of the spindle box.
2. X / Y / Z three axes are used precision large diameter of the lead screw, and give appropriate pre-pull.
3. Super large column and pillared structure support, the body structure is stable, the overall rigidity, super heavy cutting capacity, high precision, high power, high torque spindle.



Germany ZF gearbox (optional)



Gearbox (optional)



Side spindle (optional)



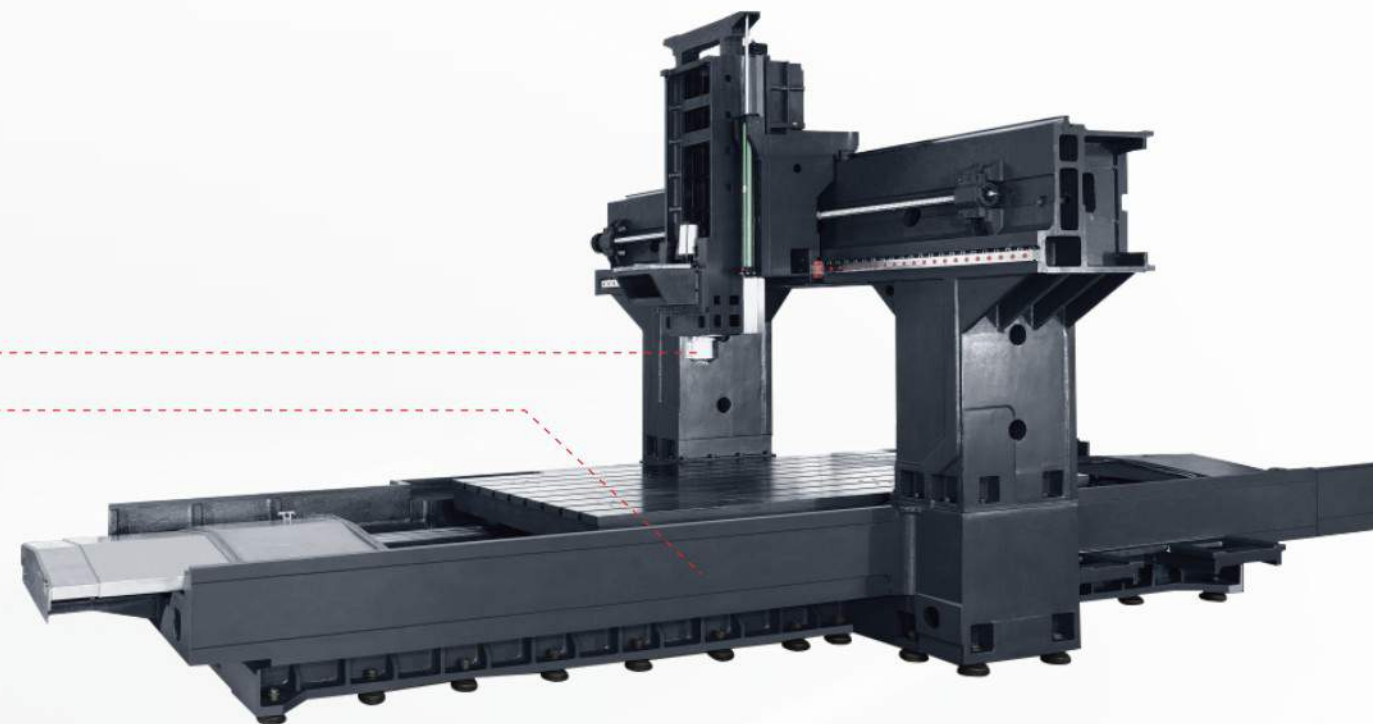
Three-axis ball slider, bearing Load increased dramatically.

Careful selection

Rigorous assembly

Stable performance

FIRST-CLASS QUALITY
FUDAO MANUFACTURING



Technical Parameters

Machine data	Unit	LMMC-1210	LMMC-2013	LMMC-2015	LMMC-2018/3018	LMMC-3022	LMMC-3025	LMMC-3029	LMMC-4032	LMMC-4042
X-axis travel range	mm	1200-2000	2000-3500	2000-4000	2000-4000	3000-6000	3000-6000	3000-8000	4000-10000	4200-12000
Y-axis travel	mm	1000	1300	1500	1800	2200	2500	2900	3200	4200
Z-axis travel	mm	800	800	800	1000	1000	1000	1000	1250	1500
Spindle end to workbench surface distance	mm	150-950	70-870	115-915	250-1250	250-1250	260-1260	260-1260	350-1600	350-1850
Gantry width	mm	1100	1300	1500	1800	2200	2500	2900	3200	4200
X/Y/Z three-axis guide		Three-axis rail / Z-axis optional hard rail	Three-axis rail / Z-axis optional hard rail	Three-axis rail / Z-axis optional hard rail	X/Y line rail Z-axis hard track	X/Y line rail Z-axis hard track	X/Y line rail Z-axis hard track	X/Y line rail Z-axis hard track	X/Y line rail Z-axis hard track	X/Y line rail Z-axis hard track
workbench desk size	mm	900 × (1400-2200)	1000 × (2000-3500)	1200 × (2000-4000)	1600 × (2000-4000)	1800 × (3000-6000)	2300 × (3000-6000)	2500 × (3000-8000)	2500 × (4000-10000)	3200 × (4000-12000)
Workbench maximum load	T	1.6-2.4	3-6	3-6	4-8	6-15	10-18	16-25	18-25	30-50
Workbench T-slot (number of slots-size × spacing)	mm	7-22 × 125	7-22 × 150	7-22 × 170	9-22 × 180	9-22 × 180	11-28 × 200	12-28 × 200	13-28 × 200	15-28 × 200
Spindle taper specification		BT40/BT50	BT40/BT50	BT40/BT50	BT50	BT50	BT50	BT50	BT50	BT50
Spindle speed (optional)	rpm/mm	8000/10000/12000	6000/8000	6000/8000	6000	6000	6000	6000	6000	6000
Spindle drive		Direct/belt	Direct/belt	Direct/belt	Belt type	Belt type	Belt type	Belt type	Belt type	Belt type
Spindle motor power	kw	11/15	15/18.5	18.5/22	18.5/22	22	22	22	30	30
Three-axis motor power (X/Y/Z)	kw	3/3/4.5	4.5/4.5/4.5	4.5/4.5/4.5	7/7/7	7/7/7	9/9/9	9/9/9	11/11/11	11/11/11
Z axis weighting method		Hydraulic balance	Hydraulic + hydrogen balance	Hydraulic + hydrogen balance	Hydraulic + hydrogen balance	Hydraulic + hydrogen balance	Hydraulic + hydrogen balance	Hydraulic + hydrogen balance	Hydraulic + hydrogen balance	Hydraulic + hydrogen balance
X/Y/Z axis fast moving speed	m/min	20/20/16	16/16/16	12/12/12	8/8/8	8/8/8	8/8/8	8/8/8	8/8/8	8/8/8
Cutting feed rate	m/min	0-10000	0-10000	0-10000	0-70000	0-70000	0-70000	0-70000	0-70000	0-70000
positioning accuracy	mm	JIS ± 0.005/300	JIS ± 0.005/300	JIS ± 0.005/300	JIS ± 0.005/300	JIS ± 0.005/300	JIS ± 0.005/300	JIS ± 0.005/300	JIS ± 0.005/300	JIS ± 0.005/300
Repeatability	mm	JIS ± 0.003/300	JIS ± 0.003/300	JIS ± 0.003/300	JIS ± 0.003/300	JIS ± 0.003/300	JIS ± 0.003/300	JIS ± 0.003/300	JIS ± 0.003/300	JIS ± 0.003/300
Air pressure demand	Kg/cm ²	≥6	≥6	≥6	≥6	≥6	≥6	≥6	≥6	≥6
Machine weight	T	11.5-15	22-28	26-31	27-35	37-53	48-68	54-72	70-105	102-163
Machine size (length × width × height)	m	(3.6-5.8) × 2.6 × 3.3	(7-11) × 2.8 × 3.4	(7.5-13) × 3.2 × 3.4	(6.8-12) × 4.2 × 4.5	(8.5-14) × 4.6 × 4.5	(8.5-15) × 5 × 4.5	(11-20) × 5.4 × 5.2	(12-24) × 5.7 × 5.2	(12-28) × 6.7 × 5.8



HORIZONTAL MACHINING CENTER SERIESNG CENTER

FHMC-1075

1 Mechanical features:

1. Horizontal machining center with high speed, high precision, high reliability structure, equipped with the best high-rigidity, high-power, high torque, heavy equipment of its kind cutting characteristics, give full play to high-production and high-precision processing performance.
2. powerful cutting ability and excellent precision and performance combined to make millingcutting and boring operation is simple and easy.



Machining Parts Sample



EXCHANGE TABLE



Technical Parameters

Machine data	Unit	FHMC-500	FHMC-630	FHMC-1075	FHMC-1290	FHMC-1814
Workbench desk size	mm	500 × 500 (Turntable)	630 × 630	1300 × 600	1360 × 700	2000 × 900
Number of workbench stations		Standard single workbench, optional interchangeable double workbench		1	1	1
Workbench rotation speed		1° × 360	1° × 360 (Optional)	1° × 360 (Optional)	1° × 360 (Optional)	1° × 360 (Optional)
Maximum load	kg	600	1000	1000	1200	1800
X/Y/Z axis travel	mm	600/600/600	1000/850/800	1000 × 750 × 600	1200 × 900 × 700	1800 × 1400 × 900
Spindle center to workbench surface distance	mm	0-600	120-970	73-823	60-960	10-1410
Spindle end to tablebench center distance	mm	50-650	175-975	50-650	150-850	200-1100
Taper specification (model / installation size)		BT50/155	BT50/190	BT50/190	BT50/190	BT50/190
Workbench T-slot (number of dimensions)	mm	5-14/100	5-18/100	5-18/120	5-18/152.5	5-22/165
Maximum spindle speed	rpm	6000	6000	6000	6000	6000
Triaxial cutting feed rate	mm/min	10-15000	10-15000	10-10000	10-10000	10-10000
Three-axis fast moving X/Y/Z	m/min	30/24/30	24/24/24	24/24/24	24/24/24	24/24/24
Positioning accuracy	mm	±0.005/300	±0.003/300	±0.003/300	±0.003/300	±0.003/300
Repeatability	mm	±0.003/300	±0.003/300	±0.003/300	±0.003/300	±0.003/300
Spindle drive motor	kw	11	15	15	15	18.5
X/Y/Z drive motor	nm	3/3/3	3/3/3	3/3/3	3/4/3	4/7/4
Tool magazine capacity (optional)	Put	24/32	24/32	24/32	24/32	24/32
Floor area (length × width × height)	m	1.28 × 3.0 × 2.6	5.9 × 3.5 × 3.563	4.4 × 3.5 × 3.2	4.4 × 3.5 × 3.2	4.4 × 3.5 × 3.2
Machine weight (about)	t	7	10	8.5	11.5	16
Remarks		Inverted "T" structure	Positive "T" structure	Z-axis motor front and rear	Z-axis motor rear	Z-axis motor rear