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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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Buying Fudao Precision Machinery to Be a Life Winner

Dongguan Fu Dao General Machinery Co.,Ltd.



Fudao Precision Machinery

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COMPOUND MACHINE



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TURNING AND MILLING WITH TURRET
CUTTER, ROW CUTTER AND ROW
CUTTER WITH POWER MILLING

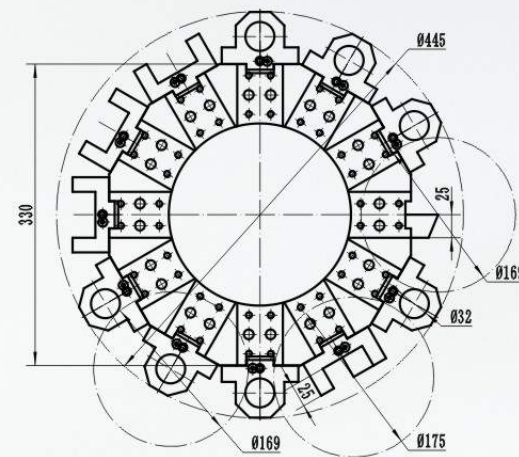
P₁₇₋₁₈

Lathe series

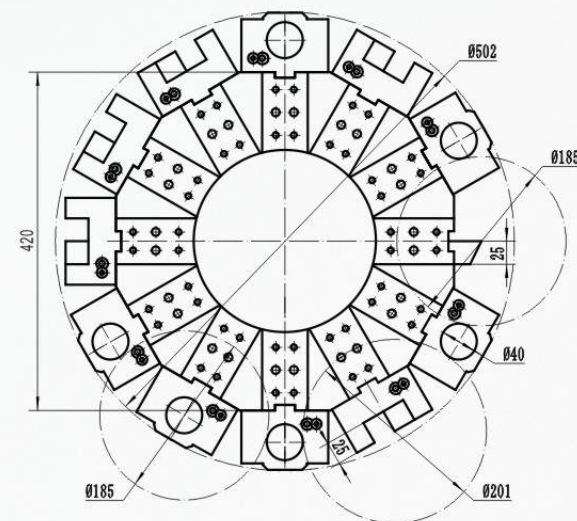
TURRET TAIL TOP MACHINE

FDL-52DW

1. Adopt the whole inclined bed structure, good rigidity, resin sand casting, aging treatment, precision and precision maintenance is good.
 2. Automatic hydraulic tail stock, it's high accurate, high effective and stable with hydraulic system. Simple and rigorous structure highly in creade the durability and safety in production. It is specially designed forthis machine.
 3. Integral sealed protection, the sealed design provides excellent water resistant and only make low sound when operating. It's more durable and protests all electric device from water, oil and metal shavings.
 4. Integral motor seat and guide way design highly increase the accuracy that may effected by installation.
 5. Streamline structure chip conveyor has beautiful appearance, it is high effective and conveys smoothly.
- The overload protection ensure the stability and safety.



FD80-12



FD100-12



TOOL TOWER TAIL TOP/ POWER TOOL TOWER TAIL TOP MACHINE TOOL

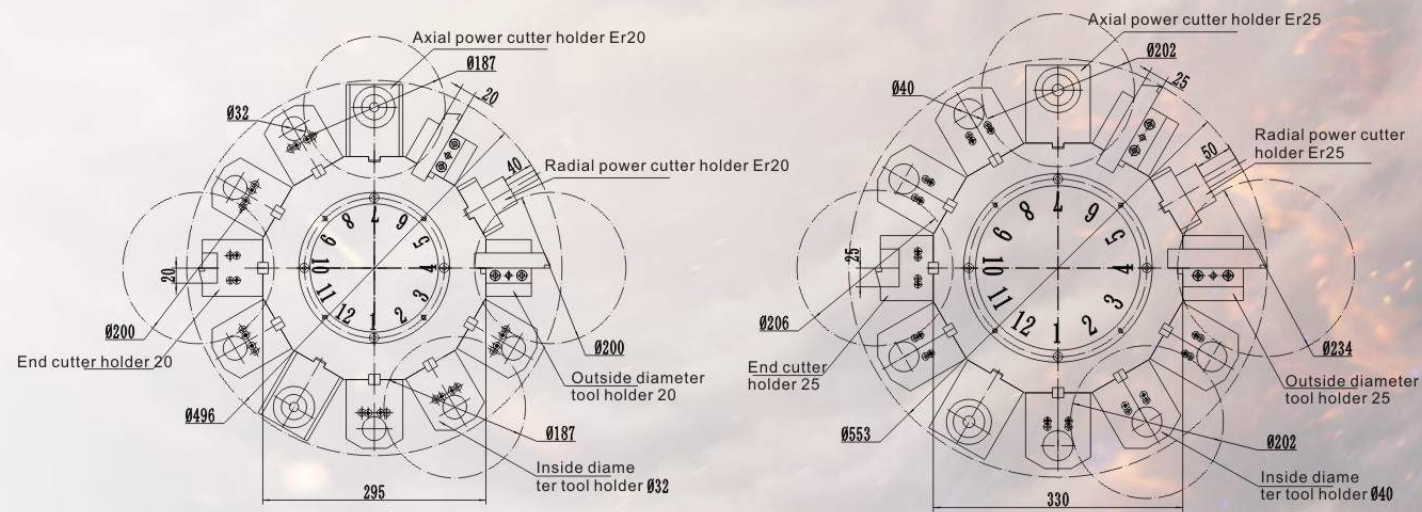
FDL-75100DWY

1. It adopts high rigidity hard rail structure, turret and Y-axis integral structure. This model can be installed on slant bed or flat bed lathe.
2. The rail locking mechanism ensures optimum rigidity, and the best machining accuracy and quality can be achieved regardless of the fixed and powered tool holders.
3. Large stroke, front and back, BMT tool system.
4. Y-axis turret can improve the processing range and operation convenience of turning-milling compound, and can complete the combined machining process of turning, drilling, tapping, tapping and keyway.

High precision: standardization of parts and interchangeability.

High rigidity: structural CAE treatment, uniform intensity distribution.

High stability: It adopts a large-disc three-piece clutch structure to ensure stable accuracy and high holding power.



Power cutter tower BMT45 cutter head

Power cutter tower BMT55 cutter head



Turret tail top machine parameters



Machine Data		Unit	Track series					Hard Rail series	
			FDL-46DW	FDL-52DW	FDL-66DW	FDL-75DW	FDL-75100DW	FDL-52H	FDL-75/85H
Processing capacity	Bed rotation diameter	mm	460	560	560	560	580/650	460	920
	Disc processing diameter	mm	400	450	450	450	580/630	400	600
	Rotary diameter of long axis machining	mm	210	300	300	300	360/400	260	440 (600)
	Maximum processing length	mm	350	500/600/750	500/600/750	460/600/750	1000/2000/3000	400	750/1000/1500/2000
	Distance between two peaks	mm	370	550/650/800	550/650/800	520/650/800	1320/2300/3300	420	800/1100/1600/2100
X/Zstroke	X axis travel	mm	210	225	225	225	350	245	330
	Z axis travel	mm	400	610/810	610/810	610/810	1120	500	940/1240/1840/2440
Spindle parameters	Spindle nose form	—	A2-5	A2-6	A2-6	A2-8	A2-8/A2-11	A2-6	A2-8/A2-11
	Chuck / collet	Inch	6	8	8	10	10/12	8	10/12
	Spindle through hole diameter	mm	56	66	79	88	88/105	66	88/105
	Bar passing diameter	mm	46	52	66	75	75/91	52	75/91
	Spindle speed range	rpm	5000	4200	4200	3500	2500	3000	2500
Moving speed	X/Z axis rapid traverse speed	m/min	30/30	30/30	30/30	30/30	18/18	18/18	18/18
Position	Minimum setting unit (X/Z)	mm	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	Repeated positioning accuracy of X/Z axis	mm	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	X/Z axis positioning accuracy	mm	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Sword tower	Tool rest station	T	12	12	12	12	12	12	12
	Cylindrical/face tool holder	mm	25	25	25	25	25	25	25
	Boring tool holder	mm	32	32/40	32/40	32/40	40	32	40
	Turret center height	mm	80	100	100	100	100	80	100
Motor Power	Spindle motor	kw	7.5/11	11/15	11/15	15/18.5	18.5/22	11/15	22/30
	X axis motor	kw	1.7	2.4	2.4	3.9	5.9	2.4	5.9
	Z axis motor	kw	1.7	2.4	2.4	3.9	5.9	2.4	5.9
	Tool change motor	kw	0.75	0.75	0.75	0.75	0.75	0.75	0.75
	Hydraulic motor	kw	1.5	1.5	1.5	1.5	1.5	1.5	2.0
	Water pump motor	kw	0.45	0.45	0.45	0.45	0.45	0.45	0.45
Tailstock	Tailstock sleeve diameter	mm	65	80	80	80	100	75	100
	Tailstock sleeve stroke	mm	80/120	80/150	80/150	80/150	120	80	80
	Maximum stroke of tailstock	mm	300	450/750	450/750	450/750	1250	300	630/930/1530/2130
	Tailstock form	—	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
	Tailstock sleeve taper	MT	MT4	MT5	MT5	MT5	MT5	Style 4	Style 5
Capacity	Tank	L	60	60	60	60	80	60	80
	Water tank	L	100	100	100	100	200	100	200
Machine size	Machine weight	KG	3850	4850	4850	5000	6850	4200	5500/6900/7500/7900
	Length*width*height	m	2.5 × 1.8 × 1.95	2.85 (3.15) × 1.9 × 2.05	2.85 (3.15) × 1.9 × 2.05	2.85 (3.15) × 1.9 × 2.05	4.4 × 2.25 × 2.45	2.5 × 1.7 × 1.85	3.5/4.2/4.9/5.8 × 2 × 2.2

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.

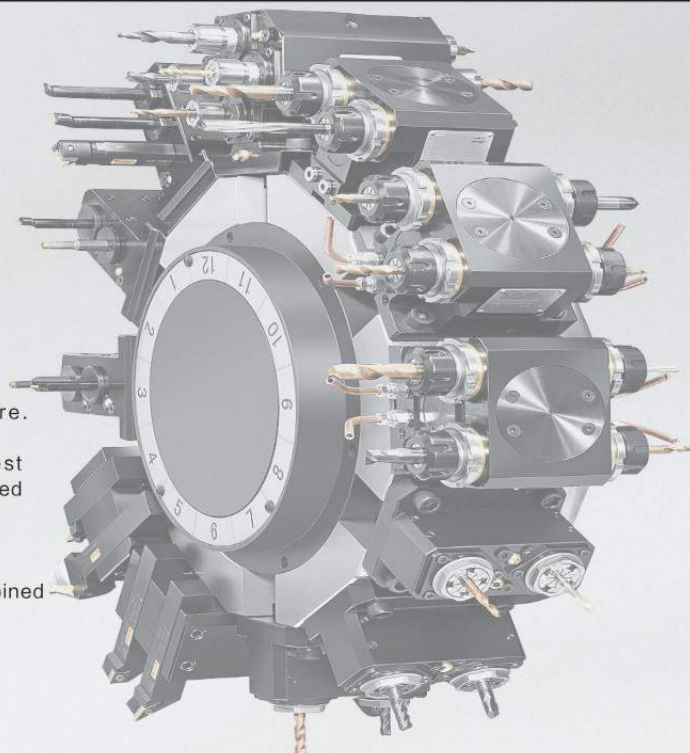
POWER TOOL TOWER TAIL TOP TURNING AND MILLING COMPOUND MACHINE

FDL-52DWY

1 Mechanical features:

High precision: standardization of parts and interchangeability.
High rigidity: structural CAE treatment, uniform intensity distribution.
High stability: It adopts a large-disc three-piece clutch structure to ensure stable accuracy and high holding power.

1. It adopts high rigidity hard rail structure, turret and Y-axis integral structure. This model can be installed on slant bed or flat bed lathe.
2. The rail locking mechanism ensures optimum rigidity, and the best machining accuracy and quality can be achieved regardless of the fixed and powered tool holders.
3. Large stroke, front and back, BMT tool system.
4. Y-axis turret can improve the processing range and operation convenience of turning-milling compound, and can complete the combined machining process of turning, drilling, tapping, tapping and keyway.



Power turret tail top turning–milling compound parameters



Machine Data		Unit	Track series				Hard Rail series	
			FDL-46DWY	FDL-52DWY	FDL-75DWY	FDL-75100DWY	FDL-52HMY	FDL-75/85HMY
Processing capacity	Bed rotation diameter	mm	460	560	560	650	640	920
	Disc processing diameter	mm	350	380	380	500	400	600
	Rotary diameter of long axis machining	mm	280	350	350	400	340	600
	Maximum processing length	mm	310	420/680	400/650	1000/2000/3000	360	530/830/1430/2000
Each axis stroke	X axis travel	mm	21	225	225	350	255	330
	Y axis travel	mm	70	100	100	100	70	100/140
	Z axis travel	mm	400	610/810	610/810	1000/2000/3000	500	940/1240/1840/2440
Spindle	Spindle nose form	—	A2-5	A2-6	A2-8	A2-8/A2-11	A2-6	A2-8/A2-11
	Chuck / collet	Inch	6	8	10	10/12	8	10/12
	Spindle through hole diameter	mm	56	66	88	88/105	66	88/105
	Bar passing diameter	mm	46	52	75	75/91	52	75/91
	Spindle speed range	rpm	5000	4200	3500	2500	3000	2500
Moving speed	XYZ axis rapid traverse speed	m/min	30/20/30	30/20/30	30/20/30	18/18/18	18/18/18	18/18/18
Position	Repeated positioning accuracy of X/Y/Z axis	mm	0.003	0.003	0.003	0.003	0.003	0.003
	X/Y/Z axis positioning accuracy	mm	0.002	0.002	0.002	0.002	0.002	0.002
	C-axis positioning accuracy	ARC second/degree	10/0.003	10/0.003	10/0.003	10/0.003	10/0.003	10/0.003
Sword tower	Tool rest station	T	12/15	12	12	12	12	12
	Cylindrical/face tool holder	mm	20	25	25	25	20	25
	Boring tool holder	mm	25	32/40	32/40	32/40	25	40
	Power head specification form	—	ER25	ER25/32	ER25/32	ER25/32	ER20/25	ER32
	Power head speed	rpm	5000	5000	5000	5000	5000	5000
Motor Power	Spindle motor	kw	7.5/11	11/15	15/18.5	18.5/22	11/15	22/30
	TD milling chip spindle	kw	2.3	2.3	2.3	2.3	2.3	2.3
	Tool change motor	kw	1.0	1.0	1.0	1.0	1.0	1.0
	XYZ axis motor	kw	2.4/1.7/2.4	3.9/2.4/3.9	3.9/2.4/3.9	5.9/2.4/5.9	2.4/1.7/2.4	5.9/2.4/5.9
	Hydraulic motor	kw	1.5	1.5	1.5	1.5	1.5	2.0
	Water pump motor	kw	0.45	0.45	0.45	0.45	0.45	0.45
Tailstock	Tailstock sleeve diameter	mm	65	80	80	100	75	100
	Tailstock sleeve stroke	mm	80/120	80/150	80/150	120	80	80
	Maximum stroke of tailstock	mm	300	450/750	450/750	1250	300	630/930/1530/2130
	Tailstock sleeve form	—	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
	Tailstock sleeve taper	MT	Style 4	Style 5	Style 5	Style 5	Style 4	Style 5
Capacity	Tank	L	60	60	60	80	60	80
	Water tank	L	100	100	100	200	100	200
Machine size	Machine weight	KG	4200	5050	5050	6850	4200	5500/6900/7500/7900
	Length*width*height	m	2.5*1.8*1.85	2.85 × 1.95 × 2.25	2.85 × 1.95 × 2.25	4.4 × 2.25 × 2.45	2.5 × 1.7 × 1.85	3.5/4.2/4.9/5.8 × 2 × 2.2

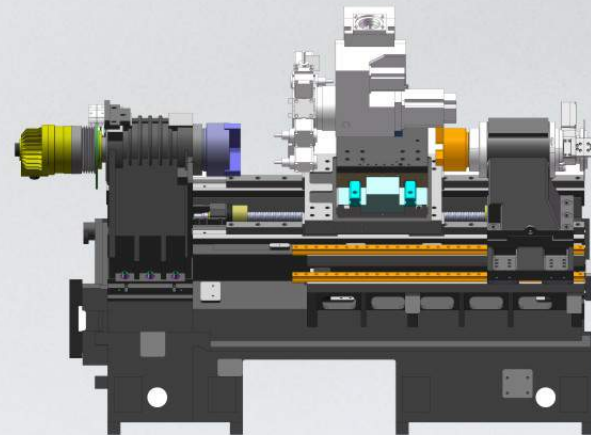
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DOUBLE-SPINDLE TURNING AND MILLING COMPOUND MACHINE TOOL

FDL-52DSY

1 Mechanical features:

1. Space-saving design, the overall improvement of feed shaft speed, can effectively enhance production capacity.
2. Highly Modular design, with seven axial configurations, with Y-axis power knife tower and auxiliary spindle, and can select all kinds of high-precision accessories and feeding and unloading mechanism to achieve automated production.
3. The left and right spindles can be equipped with built-in motors, with high accuracy, low vibration and low noise, which can make the workpiece Surface finish better.
4. The left spindle can also choose the reliable and cost-effective belt-type spindle table, using Taiwan high-rigidity, high-precision turning and milling cutter tower, using large outside diameter curved tooth clutch gear, the power cutter tower can complete the turning and milling process, such as milling, drilling, tapping and so on, which can improve the engineering concentration ability and machining accuracy.



Technical Parameters

Machine Data		Unit	FDL-46DSY	FDL-52DSY	FDL-75DSY
Processing capacity	Bed rotation diameter	mm	570	660	660
	Disc processing diameter	mm	480	480	480
	Rotary diameter of long axis machining	mm	360	360	360
	Maximum processing length	mm	450	700	700
Each axis stroke	X-axis travel	mm	270	270	270
	Y-axis travel	mm	100	100	100
	Z-axis travel	mm	610	810	810
	Z1 axis travel	mm	470	680	680
Positive spindle	Spindle nose form	-	A2-5	A2-6	A2-8
	Chuck / collet	Inch	6	8	10
	Spindle through hole diameter	mm	56	66	88
	Bar passing diameter	mm	46	52	75
	Spindle speed range	rpm	6000	4200	3500
Sub-spindle	Spindle nose form	-	A2-5	A2-5	A2-5
	Chuck / collet	Inch	6	6	6
	Spindle through hole diameter	mm	46	56	56
	Maximum bar passing diameter	mm	46	46	46
	Spindle speed range	r/min	6000	6000	6000
Fast moving speed	X/Y/Z/Z1-axis travel rapid traverse speed	m/min	30/18/30/30	30/18/30/30	30/18/30/30
Position	X/Y/Z/Z1 axis positioning accuracy	mm	0.002	0.002	0.002
	Repeated positioning accuracy of X/Y/Z/Z1 axis	mm	0.003	0.003	0.003
	C-axis positioning accuracy	ARC second/degree	10/0.003	10/0.003	10/0.003
Power Turret	Tool rest station	T	12	12	12
	External/face shank dimensions	mm	25	25	25
	Boring shank size	-	32	32/40	32/40
	Power head specification form	-	ER25	ER25/32	ER25/32
	Power head speed	rpm	5000	5000	5000
Motor Power	Positive spindle	kw	7.5/11	11/15	15/18.5
	Sub-spindle	kw	11Electric spindle	15Electric spindle	15Electric spindle
	Td milling chip spindle	kw	2.3	2.3	2.3
	Tool changer	kw	1.0	1.0	1.0
	X/Y/Z/Z1 axis	kw	3.1/2.4/3.1/3.1	3.9/2.4/3.9/3.1	3.9/2.4/3.9/3.1
	Hydraulic/Water pump	kw	1.5/0.45	1.5/0.45	1.5/0.45
Capacity	Tank/Water tank	L	80/100	80/100	80/100
Machine size	Machine weight	KG	5100	5800	6200
	Length*width*height	m	2.95 × 2.1 × 2.25	3.35 × 2.1 × 2.25	3.35 × 2.1 × 2.25

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 sample.



POWER TOOL TOWER TURNING AND MILLING COMPOUND MACHINE

FDL-46DY

1. Elasticity of two-axis rotation through servo motor and precision ball screw Direct coupling, good force condition, high positioning accuracy, equipped with computer Automatic lubrication system is used to force lubrication of linear guide rail and ball screw.
2. X-axis and Z-axis adopt high rigidity linear sliding track, between track and track Through calculation, better span, low resistance, high rigidity, etc. are obtained. High precision, displacement speed up to 30M/min, improve work efficiency Rate, shorten processing time.
3. Hydraulic station adopts Taiwan variable displacement pump, hydraulic motor and solenoid valve. Adding air-cooling device, low noise and low oil temperature.



Technical Parameters

Machine Data		Unit	FDL-46DY	FDL-52DY
Processing capacity	Rotation diameter of bed	mm	480	480
	Machining diameter (disc type)	mm	320	320
	Machining diameter on row cutter	mm	160	160
	Processing length	mm	320	320
Each axis stroke	XYZ axis travel	mm	960/70/460	960/70/460
Spindle	Spindle nose form	-	A2-5	A2-6
	Chuck / collet	Inch	6	8
	Spindle through hole diameter	mm	56	62
	Bar passing diameter	mm	46	52
	Spindle speed range	rpm	6000	4200
Moving speed	XYZ axis rapid traverse speed	m/min	30/20/30	30/20/30
Position	Repeated positioning accuracy of X/Y/Z axis	mm	0.003	0.003
	X/Y/Z axis positioning accuracy	mm	0.002	0.002
	C-axis positioning accuracy	ARC second/degree	10/0.003	10/0.003
Power turret	Tool rest station(optional)	T	12 (15)	12 (15)
	Cylindrical/face tool holder	mm	20	20
	Boring tool holder	mm	25	25
	Power head specification form	-	ER25	ER25
	Power head speed	rpm	5000	5000
Motor Power	Spindle motor	kw	7.5/11	7.5/11
	TD milling chip spindle	kw	2.3	2.3
	Tool change motor	kw	1.0	1.0
	XYZ axis motor	kw	2.4/1.7/2.4	2.4/1.7/2.4
	Hydraulic motor	kw	1.5	1.5
	Water pump motor	kw	0.45	0.45
Capacity	Tank	L	60	60
	Water tank	L	100	100
Machine size	Machine weight	KG	3500	3600
	Length*width*height	m	2.28 × 1.68 × 2.16	2.28 × 1.68 × 2.16

4+4 TURNING AND MILLING COMPOUND MACHINE

FDL-46Y

1. Elasticity of two-axis rotation through servo motor and precision ball screw Direct coupling, good force condition, high positioning accuracy, equipped with computer Automatic lubrication system is used to force lubrication of linear guide rail and ball screw.
2. X-axis and Z-axis adopt high rigidity linear sliding track, between track and track Through calculation, better span, low resistance, high rigidity, etc. are obtained. High precision, displacement speed up to 30M/min, improve work efficiency Rate, shorten processing time.
3. Hydraulic station adopts Taiwan variable displacement pump, hydraulic motor and solenoid valve. Adding air-cooling device, low noise and low oil temperature.



Technical Parameters

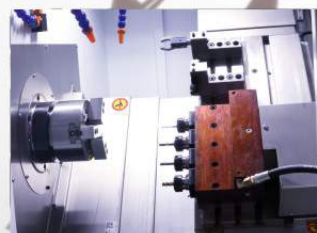
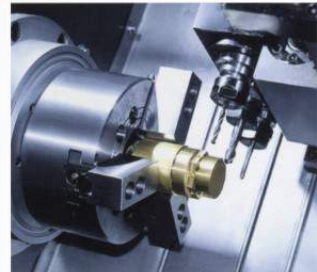
Machine Data		Unit	FDL-46Y	FDL-52Y
Processing capacity	Rotation diameter of bed	mm	Φ 500	Φ 500
	Machining diameter (disc type)	mm	Φ 300	Φ 400
	Machining diameter on row cutter	mm	160	160
	Processing length	mm	350	350
Each axis stroke	X/Y/Z axis travel	mm	1100/210/450	1100/210/450
Spindle parameters	Spindle nose form	-	A2-5	A2-6
	Chuck / collet	Inch	6	8
	Spindle through hole diameter	mm	56	66
	Bar passing diameter	mm	46	52
	Spindle speed range	rpm	6000	4200
Moving speed	X/Y/Z axis rapid traverse speed	m/min	30/20/30	30/20/30
Dota	Tool rest station	T	8	8
	Cylindrical/face tool holder	mm	20	20
	Boring tool holder	mm	25	25
	Turret center height	mm	63	63
Position	Minimum setting unit (X/Y/Z)	mm	0.001	0.001
	Repeated positioning accuracy of X/Y/Z axis	mm	0.003	0.003
	X/Y/Z axis positioning accuracy	mm	0.002	0.002
	C-axis positioning accuracy	ARC second/degree	10/0.003	10/0.003
Motor Power	Spindle motor	kw	7.5/11	7.5/11
	X/Y/Z axis motor	kw	2.4/1.7/2.4	2.4/1.7/2.4
	Tool change motor	kw	0.75	0.75
	Hydraulic motor	kw	0.75	0.75
	Water pump motor	kw	0.45	0.45
Power Head	A/b axis (4+4 dual motors)	kw	1.7/1.7	1.7/1.7
	A/b axis (4+4 dual motors)	rpm	0-3000	0-3000
	A-axis live tools	-	4 × ER25	4 × ER25
	Number of b-axis live tools	-	4 × ER25	4 × ER25
Capacity	Tank	L	60	60
	Water tank	L	100	100
Machine size	Machine weight	kg	3450	3550
	Length*width*height	m	2.2 × 2.2 × 2.3	2.2 × 2.2 × 2.3



TURNING AND MILLING WITH TURRET CUTTER, ROW CUTTER AND ROW CUTTER WITH POWER MILLING



Machining Parts Sample



Technical Parameters

Machine Data		Unit	FDL-25P	FDL-36P	FDL-46P	FDL-52P
Processing capacity	Rotation diameter of bed	mm	Φ 400	Φ 400	Φ 500	Φ 500
	Machining diameter (disc type)	mm	Φ 200	Φ 200	Φ 300	Φ 400
	Machining diameter on row cutter	mm	Φ 100	Φ 120	Φ 125	Φ 160
	Processing length	mm	180	300	350	350
X/Z stroke	X-axis travel	mm	500/800	800	900	900
	Z-axis travel	mm	180	250	350	350
Spindle parameters	Spindle nose form	-	A2-4	A2-4	A2-5	A2-6
	Chuck / Collet	Inch	4	5	6	8
	Spindle through hole diameter	mm	Φ 36	Φ 46	Φ 56	Φ 62
	Bar through hole diameter	mm	Φ 25	Φ 36	Φ 46	Φ 52
	Spindle rotation range	rpm	0-6000	0-6000	0-6000	0-4200
Moving speed	X-axis rapid traverse speed	m/min	30	30	30	30
	Z-axis rapid traverse speed	m/min	30	30	30	30
Position	Minimum setting unit (X/Z)	mm	0.001	0.001	0.001	0.001
	Repeated positioning accuracy of X/Z axis	mm	0.003	0.003	0.003	0.003
	X/Z axis positioning accuracy	mm	0.002	0.002	0.002	0.002
Motor Power	Spindle motor	kw	3.7	3.7/5.5	5.5/7.5	7.5/11
	X-axis motor	kw	1.1	1.3	1.7	2.4
	Z-axis motor	kw	1.1	1.3	1.7	2.4
	Hydraulic motor	kw	0.75	0.75	0.75	0.75
	Water pump motor	kw	0.25	0.25	0.25	0.25
Capacity	Tank	L	60	60	60	60
	Water tank	L	100	100	100	100
Machine size	Machine weight	kg	1650	2200	2850	3100
	Length*width*height	m	1.65 × 1.45 × 1.7	2.1 × 1.6 × 1.95	2.1 × 1.6 × 1.95	2.3 × 1.6 × 2.0