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BUMBLEBEE

Yuyao Bumblebee Technology Co., Ltd.

No.188 Chengdong Road, Yuyao City, Zhejiang Province, 315400, China www.bumblebeecnc.com

+86-574-62766677 info@bumblebeecnc.com



Company Brief

Yuyao Bumblebee Technology Co., Ltd. is located in Yuyao, Zhejiang Province, we are a modern manufacturing company specializing in the research, development, manufacturing, and sales of high-end CNC machining centers.

Since our establishment in 2019, Bumblebee has remained focused on advancing precision machining technologies and high-performance CNC equipment. Our core technical team brings more than 20 years of experience in precision machine tool development and manufacturing, with extensive expertise in machine structure design, accuracy control, assembly processes, and complex machining applications.

We take precision, stability, efficiency, and reliability as the core standards of our product development. Through a well-established manufacturing system, strict quality control, and continuous technological innovation, we are committed to continuously improving overall machine performance and long-term operating value.

Bumblebee machines are designed for a wide range of high-precision and complex machining applications, meeting diverse requirements from precision component manufacturing to high-volume production. We are committed to providing advanced manufacturing industries with stable, efficient, and reliable CNC machining solutions.



WORKSHOP &
EQUIPMENT









Contents

Products Instruction

DV Vertical Series 04

DF High Speed / Fast Series 08

DB Bridge Series 18

DM Moving Gantry Series 30

DTX Trunnion Full 5-Axis Series 34

DSX Swivel Head Full 5-Axis Series 38

DMX 5-Axis Gantry Series 42

DH Horizontal Machining Center Series 46

DV Vertical Series
automation solution integration

DV11A





- The DV-series vertical CNC machines is designed for effective and productive machining. Widely used for high precision plastic moulds, forging dies, auto, aerospace industry, electric and home appliance.
- The product has reasonable structure and strong rigidity, and adopts famous brand linear guides to ensure high-precision machining capabilities.
- The major machine parts are made of top-grade cast iron to achieve high rigidity and stable quality.
- Pre-stressed precision double nut ball-screws with C3 grade in all axis, directly driven by the servo motors in order to eliminate backlash and improve transmission efficiency as well as accurate position control.
- Z axis is driven by high power motor to improve the response speed and eliminate the defect of unstable backlash and mechanical balance run-out.
- Patent column structure design provides extraordinary rigidity.



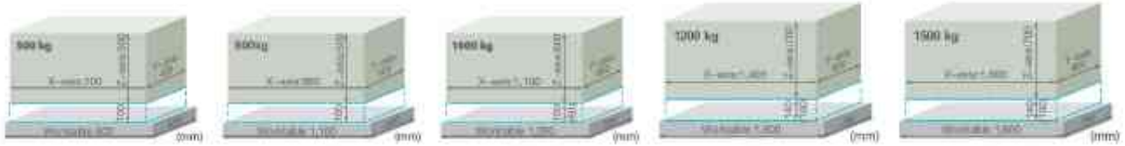
The automatic production is a irreversible trend since industry 4.0 been proposed. The DV series can provide a full solution for automation by achieving work piece lifting, clamping, locating, machining, inspecting and other functions.

Technical Parameter

	Item		Unit	DV7A	DV9A	DV11A	DV11D	DV14A	DV14D	DV16A	DV16D
Travel	Standard controller			FANUC 0i-MF Plus Step2, absolute 3A system, 10.4" LCD							
	X axis travel(work-table)		mm	700	860	1100		1400		1600	
	Y axis travel(saddle)		mm	420	500	600		800			
	Z axis travel(spindle head)		mm	500		600		700			
	Distance from spindle nose to table		mm	100 ~ 600		100 ~ 700	60 ~ 660	140 ~ 840	100 ~ 800	140 ~ 840	100 ~ 800
	Distance from spindle center to column cover		mm	480	525	630		800			
Work table	Table size(length×width)		mm	800×420	1100×500	1290×600		1600×760		1800×760	
	Max. table load		kg	500	800	1000		1200		1500	
	T slot size(width×distance×quantity)		mm	14×80×5		18×100×5		18×125×5			
Spindle	Spindle taper			BT40			BT50	BT40	BT50	BT40	BT50
	Max. spindle speed(Direct driven)		rpm	10000			6000	8000	6000	8000	6000
	Spindle motor power (continual working/Max.)		kW	11/20.4			15/20.4	11/20.4	15/20.4	11/20.4	15/20.4
	Spindle torque (continual working/Max.)		N.m	52.5/130			143/259	52.5/130	143/259	52.5/130	143/259
X/Y/Z	Rapid traverse X/Y		mm/min	40000		36000		20000			
	Rapid traverse Z		mm/min	32000		30000		20000			
	Cutting feed rate on X/Y/Z		mm/min	1 ~ 10000							
ATC (Option)	ATC type			Arm type							
	Tool capacity		pcs	24							
	Max. tool diameter		mm	Ø80/Ø130			Ø110/Ø220	Ø80/Ø150	Ø110/Ø220	Ø80/Ø150	Ø110/Ø220
	Max. tool length		mm	300			350	300	350	300	350
	Max. tool weight		kg	8			20	8	20	8	20
Accuracy	VDI/DGQ3441	Full travel positioning accuracy	mm	P0.010				P0.012			
		Repeatability accuracy	mm	Ps0.005				Ps0.010			
	Air pressure		MPa	0.6~0.8							
	Supply voltage & frequency			3/PE,AC380V,50Hz							
	Power requirement		kVA	30				40			
	Machine size (L/W/H)		mm	3650×2285×2700	3750×2285×2730	4050×2530×2900		4990×3500×3180			
	Machine weight		kg	4800	5700	7200	7800	10800	11100	11800	12100

We reserve the right to change technical parameter for improvement of our products without giving notice in advance.

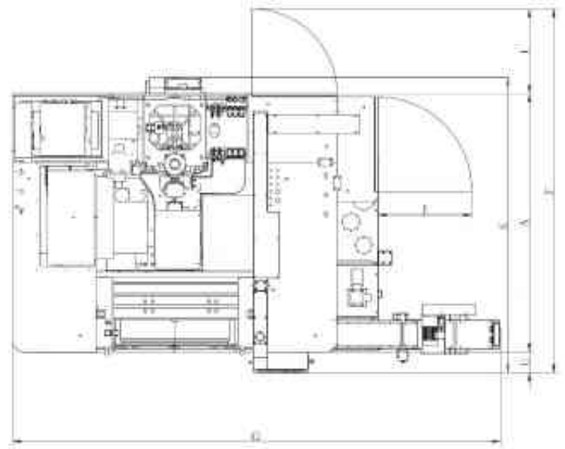
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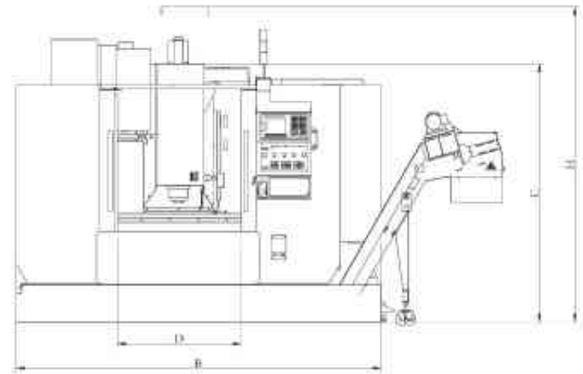


DV7A DV9A DV11A/11D DV14A/14D DV16A/16D

Standard&Option	DV7A	DV9A	DV11A	DV11D	DV14A	DV14D	DV16A	DV16D
FANUC 0i-MF Plus Step2, absolute 3A system, 10.4" LCD	●	●	●	●	●	●	●	●
FANUC 0i-MF Plus absolute type 0 15" LCD	○	○	○	○	○	○	○	○
FANUC 0i-MF Plus Step2, absolute 1A system, 10.4" LCD	○	○	○	○	○	○	○	○
Mitsubishi M80A 15" touch type LCD	○	○	○	○	○	○	○	○
SINUMERIK 828D 10.4" LCD	○	○	○	○	○	○	○	○
Spindle 6000rpm	×	×	×	●	×	●	×	●
Spindle 8000rpm	○	○	○	○	●	○	●	○
Spindle 10000rpm	●	●	●	×	○	×	○	×
Spindle 15000rpm / Spindle 20000rpm	○	○	×	×	×	×	×	×
Spindle 12000rpm	○	○	○	×	○	×	○	×
Column raise 200/300	○(160)	○(160)	○	○	○	○	○	○
Arm type ATC 24T	●	●	●	●	●	●	●	●
Arm type ATC 30T	×	×	×	○	×	○	×	○
Arm type ATC 32T	○	○	○	×	○	×	○	×
Chain type ATC 32T/40T	×	×	○	○	○	○	○	○
Chain type ATC 60T	×	×	○	×	○	○	○	○
GTP gear box	×	×	○	○	○	○	○	○
Rigid tapping	●	●	●	●	●	●	●	●
Full-enclosed splash guard	●	●	●	●	●	●	●	●
Spindle chiller	●	●	●	●	●	●	●	●
Spindle air sealing	●	●	●	●	●	●	●	●
Air blowing device	●	●	●	●	●	●	●	●
Working area light	●	●	●	●	●	●	●	●
3 colors warning light	●	●	●	●	●	●	●	●
Heat exchanger in electrical cabinet	●	●	●	●	●	●	●	●
Portable MPG	●	●	●	●	●	●	●	●
Coolant system	●	●	●	●	●	●	●	●
Grease lubrication system	●	●	●	●	●	●	●	●
Pneumatic system	●	●	●	●	●	●	●	●
Chain chip conveyor	●	●	●	●	●	●	●	●
Coil chip conveyor	○	○	○	○	●	●	●	●
Air gun	●	●	●	●	●	●	●	●
Water gun with flushing function	●	●	●	●	●	●	●	●
Automatically power off	●	●	●	●	●	●	●	●
Transformer	●	●	●	●	●	●	●	●
Tool kit	●	●	●	●	●	●	●	●
Adjustable level bolts and foundation blocks	●	●	●	●	●	●	●	●
Safety door interlock	●	●	●	●	●	●	●	●
Operation manual	●	●	●	●	●	●	●	●
Coolant surrounding spindle	●	●	●	●	●	●	●	●
Drawer type water tank	○	○	○	○	○	○	○	○
Mass flow chip flushing function(including top spray)	○	○	○	○	○	○	○	○
Oil skimmer(Japanese brand)	○	○	○	○	○	○	○	○
Automatic door	○	○	○	○	○	○	○	○
Coolant through spindle center 20/30/50/70bar	○	○	○	○	○	○	○	○
A/C for electric cabinet	○	○	○	○	○	○	○	○
Buzzer alarm lamp	○	○	○	○	○	○	○	○
Voltage stabilizer	○	○	○	○	○	○	○	○
Smart spindle temperature compensation(FANUC)	○	○	○	○	○	○	○	○
Absolute linear scale(FAGOR)	○	○	○	○	○	○	○	○
Iron box package	○	○	○	○	○	○	○	○
Water tank with level detection	●	●	●	●	●	●	●	●
Warranty prolong 1 year	○	○	○	○	○	○	○	○

● Standard ○ Optional × Not available





Dimensions

	A	B	C	D	E	F	G	H	I	J	K
DV7A	1980	2790	2200	660	175	3115	3650	2700	750	0	2370
DV9A	2000	2910	2530	1000	160	3115	3750	2750	750	0	2370
DV11A/11D	2223	2783	2237	1100	180	3308	4058	2900	750	0	2534
DV14A/14D	2828	4123	3566	1570	800	4447	4928	3260	745	636	3490
DV15A/16D	2828	4123	3566	1570	800	4447	4928	3260	745	636	3490

We reserve the right to change technical parameter for improvement of our products without giving notice to customers.

DF High Speed / Fast Series

DF11





Benz testing part



0.15mm in diameter, 20mm in height needle machining performance, low vibration, quick response



spiral linear machining, 3D error within 0.010mm

* DF high speed vertical machine center is the new design for high precision mould cutting and nonferrous metal workpiece which need high speed machining.
* 15000RPM direct driven spindle with oil chiller and HSK A63 tool shank which make the machine with excellent rotation precision, low vibration and high speed response.
* All three axis are driven by high-power motors to achieve synergy ability.
* The surrounding coolant and workpiece side flushing can put down the temperature of tool, workpiece and machine.
* Fanuc absolute type 0 system with max. 1500 blocks look-ahead.
* The grease lubrication system comes as standard, with low maintenance budget, environmental friendly.
* Separated strong and weak electric cabinet, eliminate the electromagnetic field interference generated by working electrical components.
* The three-axis motor base and ballscrew both adopt a circulating water cooling system to ensure precision and long-term stability.

Technical Parameter

	Item		Unit	DF11
	Standard controller			FANUC 0i-MF Plus absolute type 0 15" LCD
Travel	X axis travel(work table)		mm	1080
	Y axis travel(saddle)		mm	600
	Z axis travel(spindle head)		mm	600
	Distance from spindle nose to table		mm	100~700
	Distance from spindle center to column cover		mm	630
Work table	Table size(length*width)		mm	1280x600
	Max. table load		kg	1000
	T slot size(width*distance*quantity)		mm	18x100x5
Spindle	Spindle taper			HSK-A63
	Max. spindle speed		rpm	15000(Direct driven)
	Spindle motor power (continual working/Max.)		kW	9/15
	Spindle torque (continual working/Max.)		N.m	57.3/120
X/Y/Z	Rapid traverse X/Y/Z		mm/min	36000/36000/24000
	Cutting feed rate on X/Y/Z		mm/min	1~10000
ATC (Option)	ATC type			Arm type
	Tool capacity		pcs	24
	Max. tool diameter		mm	Ø80/Ø130
	Max. tool length		mm	300
	Max. tool weight		kg	8
Accuracy	VDI/DGQ3441	Full travel positioning accuracy	mm	P0.010
		Repeatability accuracy	mm	Ps0.008
	Air pressure		MPa	0.6~0.8
	Supply Voltage & Frequency			3/PE, AC380V, 50Hz
	Power requirement		kVA	30
	Machine size (L/W/H)		mm	3100x3350x2900
	Machine weight		kg	6900

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Moveable Area:



DF11

DF High Speed / Fast Series

DF16



* DF double column high speed high accuracy series is designed for precise mold base and nonferrous metal machining. Equipped with high speed spindle as standard.
* One piece cast iron machine bed and one piece cast iron bridge, the whole structure is analyzed by FEM to optimize the rigidity and accuracy.
* All three axes use world famous linear guide way and ball screw to provide high accuracy and stable performance.
* Full enclosed splash guard with European operation box in safe and elegant outlook, every design is for convenience operation.
* The grease lubrication system is configured as standard, with low maintenance budget, environmental friendly.


Car light part


Car light part

Technical Parameter

	Item	Unit	DF12	DF12A	DF12B	DF16	DF16A	DF16B
	Standard controller		FANUC 0-MF plus absolute type 0.15" LCD	MITSUBISHI M830W 15" absolute nano system		FANUC 0-MF plus absolute type 0.15" LCD	MITSUBISHI M830W 19" absolute nano system	
Travel	X axis travel(work-table)	mm	1200			1600		
	Y axis travel(saddle)	mm	800			1300		
	Z axis travel(spindle head)	mm	500			700		
	Distance from spindle nose to table	mm	150~650		200~700	225~925		250~950
	Distance between columns/ work piece access height	mm	920/715			1500/715		
Work table	Table size(length×width)	mm	1320x800			1600x1300		
	Max. table load	kg	2000			4000		
	T slot size(width×distance×quantity)	mm	14x120x7			22x160x8		
Spindle	Spindle taper		HSK-A63		HSK-E50	HSK-A63		HSK-E50
	Max. spindle speed	rpm	15000(Direct driven)	24000(Built-in)	30000(Built-in)	15000(Direct driven)	24000(Built-in)	30000(Built-in)
	Spindle motor power (continual working/Max.)	kW	9/15	30/39	22/25	15/38	25/33	22/25
	Spindle torque (continual working/Max.)	N.m	57.3/120	29.1/37.8	10/11.4	70/149	68/89.5	10/11.4
XYZ	Rapid traverse (X/Y/Z)	mm/min	30000	40000		30000		
	Cutting feed rate (X/Y/Z)	mm/min	1~10000					
ATC (Option)	ATC type		Chain/Drum type		Drum type	Arm type/Chain type		Arm type
	Tool capacity	pcs	20/32/40/60		24	24/32/40/60		24
	Max. tool diameter	mm	Ø100			Ø100/Ø130		Ø80/Ø120
	Max. tool length	mm	235		200	300		200
	Max. tool weight	kg	8		4	9		4
Accuracy	VDI/DGQ3441 Full travel positioning accuracy	mm	P0.014					
	VDI/DGQ3441 Repeatability accuracy	mm	Ps0.006					
	Air pressure	MPa	0.6~0.8					
	Supply Voltage & Frequency		3/PE, AC380V, 50Hz					
	Power requirement	kVA	30	60				
	Machine size (L/W/H)	mm	4220x3350x3215			5050x3680x3860		
	Machine weight	kg	12000			19000		

We reserve the right to change technical parameter for improvement of our products without giving notice to customers

Moveable Area:



DF12/12A/12B



DF16/16A/16B

DF High Speed / Fast Series

DF23



* DF23 series high-speed double column machine is widely used in the machining of various large and medium-sized high-precision parts and high-speed cutting of precision molds.
* The whole machine is made of high-quality cast iron, and undergone three times of aging treatment; the machine tool has stable structure and excellent accuracy.
* The spindle head is designed with non-counterweight, which has excellent performance of good high-speed cutting and stable direction changing-over.
* The direct-driven spindle with 15000rpm, or built-in spindle with 20000/24000rpm can be configured as option to meet different working conditions.


Car light part


Car light part

Technical Parameter

	Item		Unit	DF23	DF23A	DF32	DF32A	DF41	DF41A
	Standard controller			FANUC 0i-MF plus absolute type 0 15" LCD	MITSUBISHI M830W 15" absolute nano system	FANUC 0i-MF plus absolute type 0 15" LCD	MITSUBISHI M830W 15" absolute nano system	FANUC 0i-MF plus absolute type 0 15" LCD	MITSUBISHI M830W 15" absolute nano system
Travel	X axis travel(work-table)		mm	2300		3200		4100	
	Y axis travel(saddle)		mm	2000					
	Z axis travel(spindle head)		mm	800					
	Distance from spindle nose to table		mm	235~1035	250~1050	235 ~ 1035	250 ~ 1050	235~1035	250~1050
	Distance between columns/ work piece access height		mm	1620/1000					
Work table	Table size(length×width)		mm	2300x1600		3200x1600		4100x1600	
	Max. table load		kg	8000		10000		12000	
	T slot size(width×distance×quantity)		mm	22x180x8					
Spindle	Spindle taper			HSK-A63					
	Max. spindle speed		rpm	15000	24000	15000	24000	15000	24000
	Spindle motor power (continual working/Max.)		kW	15/38	25/33	15/38	25/33	15/38	25/33
	Spindle torque (continual working/Max.)		N.m	70/149	68/89.5	70/149	68/89.5	70/149	68/89.5
X/Y/Z	Rapid traverse (X/Y/Z)		mm/min	20000/20000/12000				15000/20000/12000	
	Cutting feed rate (X/Y/Z)		mm/min	1~10000					
ATC (Option)	ATC type			Arm type / Chain type					
	Tool capacity		pcs	24/32/40/60					
	Max. tool diameter		mm	Ø75/Ø130					
	Max. tool length		mm	300					
	Max. tool weight		kg	8					
Accuracy	VDI/DGQ3441	Full travel positioning accuracy	mm	P0.015		P0.020		P0.025	
		Repeatability accuracy	mm	Ps0.012		Ps0.015		Ps0.020	
	Air pressure		MPa	0.6~0.8					
	Supply Voltage & Frequency			3/PE, AC380V, 50Hz					
	Power requirement		kVA	60					
	Machine size (L/W/H)		mm	7750x4000x4650		9250x4000x4650		10650x4000x4650	
	Machine weight		kg	23000		28000		29000	

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Moveable Area:



DF23/23A



DF32/32A



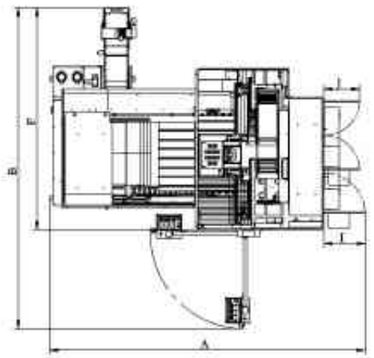
DF41/41A

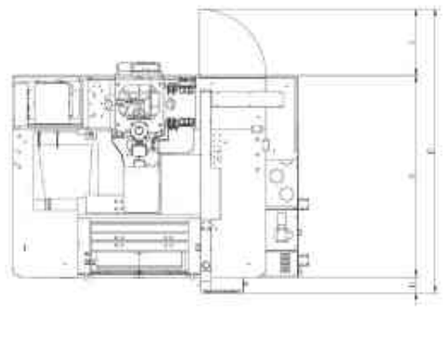
Standard&Option	DF11	DF12	DF12A	DF12B	DF16
FANUC 0-MF Plus absolute type 0 15" LCD	●	●	○	○	●
MITSUBISHI M80A 15" LCD	○	○	×	×	×
MITSUBISHI M830W 15" LCD	×	×	●	●	×
MITSUBISHI M830W 19" LCD	×	×	×	×	○
SINUMERIKS 828D 15.6" LCD	○	○	○	○	○
SINUMERIKS ONE 15" LCD	×	×	○	○	○
Max. 1500 blocks pre-read	●	●	×	×	●
IHMI+Manual Guide i + Data Server 2G	●	●	×	×	●
Interpolation type straightness compensation	×	×	×	×	●
Direct driven spindle 15000rpm HSKA63	●	●	×	×	●
Direct driven spindle 15000rpm BBT40	○	○	×	×	○
Electric spindle 20000rpm HSKA63 SKYNC170	○	○	×	×	○
Electric spindle 24000rpm HSKA63 SKYNC/BAG170	○	○	●	×	×
Electric spindle 24000rpm HSKA63 SKYNC/BAG230	×	×	×	×	×
Direct driven spindle 10000rpm HSKA100	×	×	×	×	×
Electric spindle 12000rpm HSK A100 SKYNC	×	×	×	×	×
Electric spindle 30000rpm HSK E50 SKYNC	×	×	×	●	×
Arm type ATC HSKE50 24T	×	×	×	×	×
Arm type ATC HSKA63 24T/32T	○	×	×	×	○
Chain type ATC HSKA63 32T/40T/60T	○	○	○	×	○
Drum type ATC HSKA63 20T	×	○	○	×	×
Drum type ATC HSKE50 24T	×	×	×	○	×
Column raise 200	○	○	○	○	○
Column raise 300	○	×	×	×	×
Rigid tapping	●	●	●	●	●
Full-enclosed splash guard	●	●	●	●	●
Spindle chiller / Coolant surrounding spindle	●	●	●	●	●
Spindle air sealing / Air blowing device	●	●	●	●	●
Working area light / 3 colors warning light	●	●	●	●	●
A/C for electric cabinet / Portable MPG	●	●	●	●	●
Grease lubrication device	●	●	●	●	●
Coolant system / Pneumatic system	●	●	●	●	●
Chain chip conveyor	○	○	○	○	○
Coil chip conveyor	×	●	●	●	●
Air gun / Water gun with flushing function	●	●	●	●	●
Oil skimmer (Japanese brand)	○	○	○	○	○
Automatically power off / Tool kit	●	●	●	●	●
Transformer	●	●	×	×	●
Adjustable level bolts and foundation block	●	●	●	●	●
Safety door interlock / Operation manual	●	●	●	●	●
Roof spraying system	○	○	○	○	○
Mass flow chip flushing function	○	×	×	×	×
Drawer type water tank	●	●	●	●	●
Buzzer alarm lamp	○	○	○	○	○
Air dryer	○	○	●	●	○
Oil mist collection machine	○	○	○	○	○
Coolant through spindle center 20/30/50/70bar	○	○	○	○	○
Voltage stabilizer / Collision avoidance device	○	○	○	○	○
Measuring system	○	○	○	○	○
Smart spindle temperature compensation (FANUC)	●	●	×	×	●
Absolute linear scale (FAGOR)	○	●	●	●	●
Water tank with level detection	●	●	●	●	●
Full enclosed iron box package	○	○	○	○	○
Hollow lead screw / Motor base coling device	●	×	×	×	×
Warranty prolong 1 year	○	○	○	○	○

● Standard ○ Optional × Not available

DF16A	DF16B	DF23	DF23A	DF32	DF32A	DF41	DF41A
○	○	●	○	●	○	●	○
×	×	×	×	×	×	×	×
×	×	×	×	×	×	×	×
●	●	○	●	○	●	○	●
○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○
×	×	●	×	●	×	●	×
×	×	●	×	●	×	●	×
×	×	●	×	●	×	●	×
×	×	●	×	●	×	●	×
×	×	○	×	○	×	○	×
×	×	○	×	○	×	○	×
●	×	×	●	×	●	×	●
×	×	○	×	○	×	○	×
×	×	○	×	○	×	○	×
×	●	×	×	×	×	×	×
×	○	×	×	×	×	×	×
○	×	○	○	○	○	○	○
○	×	○	○	○	○	○	○
×	×	×	×	×	×	×	×
×	×	×	×	×	×	×	×
○	○	○	○	○	○	○	○
×	×	○	○	○	○	○	○
●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●
○	○	○	○	○	○	○	○
●	●	●	●	●	●	●	●
○	○	○	○	○	○	○	○
×	×	●	×	●	×	●	×
●	●	●	●	●	●	●	●
○	○	○	○	○	○	○	○
×	×	×	×	×	×	×	×
○	○	○	○	○	○	○	○

● Standard ○ Optional × Not available





Dimensions

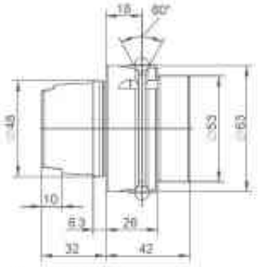
	A	B	C	D	E	F	G	H	I	J
DF12/14/16	4808	4077	3215	4220	3960	3356	2170	1380	810	140
DF18/20/160	5405	5252	3982	5200	4760	3946	3100	1400	715	815
DF24/24	7750	5535	4650	7350	5560	4000	3300	1800	0	0
DF32/32	9250	5535	4650	9250	5760	4000	3300	2000	0	0
DF41/41	10850	5535	4650	10850	10160	4000	3300	2000	0	0

We reserve the right to change technical parameter for improvement of our products without giving notice to customers.

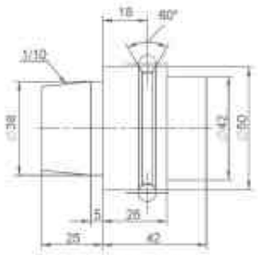
Dimensions

	A	B	C	D	E	F	H	I
DF11	2395	3100	2570	1100	180	3350	2900	730

We reserve the right to change technical parameter for improvement of our products without giving notice to customers.



HSK A63 Tool Shank



HSK E50 Tool Shank

High and low voltage controls are designed separately, and the system operation is more stable.

All series models adopt the European standard double electric cabinet design, the high and low voltage controls are isolated, which can effectively avoid the electromagnetic field interference caused by the operation of electrical components, reduce the temperature of the electric cabinet, and improve the life of the electrical appliance and the stability of the system.









DB Bridge Series

High efficient cutting equipment specialized for precision mould base

DB118









- Designed for the latest high precision mold base and components.
- The bed adopts an unique "M" type rib structure, even stress and stable bearing.
- Integrated structure for column and crossbeam, circular cavities and reasonable reinforcing ribs are set in the box-type cavity, which has high torsional and bending rigidity.
- Equipped with 15 inch large screen color display and calculator as standard to improve the operator's operation experience.
- Select Japanese brand lubrication and pneumatic system to ensure high reliability, which is installed centrally in front of the machine, it's convenient for the operator to observe and maintain.
- Designed with symmetrical and movable door in front to provide large loading and unloading space, which is safe and convenient.
- Equipped with two coil chip conveyors and a chain chip conveyor, cutting chips can be discharged efficiently to the back side of the machine in a centralized way.

Technical Parameter

	Item		Unit	DB118
	Standard controller			FANUC 0i-MF plus absolute type 0 15" LCD
Travel	X axis travel (saddle)		mm	2000
	Y axis travel (work-table)		mm	1300
	Z axis travel (spindle head)		mm	800
	Distance from spindle nose to table		mm	200 ~ 1000
	Distance between columns/ work piece access height		mm	1820/1000
Work table	Table size(length*width)		mm	1650x1300
	Max. table load		kg	4000
	T slot size(width*distance*quantity)		mm	22x180x7
Spindle	Spindle taper			BBT50
	Max. spindle speed		rpm	6000(Direct-driven)
	Spindle motor power (continual working/ Max.)		kW	22/54
	Spindle torque (continual working/ Max.)		N.m	770/1892
X/Y/Z	Rapid traverse X/Y/Z		mm/min	20000/20000/12000
	Cutting feed rate on X/Y/Z		mm/min	1~10000
ATC (Option)	ATC type			Arm type / Chain type
	Tool capacity		pcs	24/32/40/60
	Max. tool diameter		mm	Ø110/Ø225
	Max. tool length		mm	350
	Max. tool weight		kg	20
Accuracy	VDI/DGQ3441	Full travel positioning accuracy	mm	P0.015
		Repeatability accuracy	mm	Ps0.012
	Air pressure		MPa	0.6~0.8
	Supply voltage & frequency			3/PE,AC380V,50Hz
	Power requirement		kVA	60
	Machine size (LxWxH)		mm	4610x4910x4600
	Machine weight		kg	19500

We reserve the right to change technical parameter for improvement of our products without giving notice to customers.

Moveable Area:



DB118

Standard&Option	DB118
FANUC 0i-MF Plus absolute type 0 15" LCD	●
MITSUBISHI M80A 15" touch type LCD	○
MITSUBISHI M830S, 15" touch screen	○
SINUMERIK828D 15.6" LCD	○
SINUMERIK ONE 15" LCD	○
Max. 1500 blocks pre-read / Data Server 2G	●
HMI+Manual Guide i	●
Interpolation type straightness compensation	●
Direct driven spindle with gear box 6000rpm	●
Direct driven spindle 8000rpm	○
Direct driven spindle with gear box 8000rpm	○
Direct driven spindle 10000rpm	○
Direct driven spindle 15000rpm	○
Z travel enlarge to 1000mm	○
Column raise 200mm/300mm	○
Arm type ATC 24T	○
Chain type ATC 32/40/60T	○
Rigid tapping	●
Full-enclosed splash guard	●
Spindle chiller	●
Spindle air sealing	●
Air blowing device	●
Working area light / 3 colors warning light	●
Heat exchanger in electrical cabinet	●
Portable MPG / Tool coolant system	●
Pneumatic system	●
Chain chip conveyor / Coil chip conveyor	●
Air gun	●
Water gun with flushing function	●
Automatically power off	●
Transformer / Tool kit	●
Adjustable level bolts and foundation block	●
Safety door interlock	●
Operation manual	●
Coolant surrounding spindle	○
Grease lubrication	●
Oil skimmer	○
Tool release pedal switch	●
Coolant through spindle center 20/30/50/70bar	○
A/C for electric cabinet	○
Buzzer alarm lamp	○
Voltage stabilizer	○
Smart spindle temperature compensation (FANUC)	○
Absolute linear scale (FAGOR)	○
Full enclosed iron box package	○
Water tank with level detection	●
Oil circuit tool shank	○
Warranty prolong 1 year	○

● Standard ○ Optional

DB18 Bridge Series

Medium Size Component Machining Center

DB318



- It is widely applied in milling, drilling, boring and tapping of large , medium-sized moulds and parts.
- Various spindle speed selection such as 6000/8000/10000rpm.
- Integrated structure for column and crossbeam, with high anti-torque and anti-bending features.
- Optional extra milling head is able to enlarge the machining range of machine.
- Fully automatic chain and coil chip conveyor device, chips removal is convenient and high efficient.



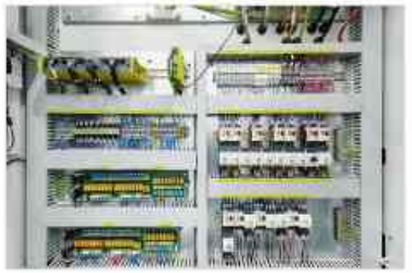
The two guide ways of the Y-axis are arranged vertically, and the frontal force is applied to increase the rigidity and load capacity.



The head of the pipeline in the drag chain is fixed with special clamp to prevent mutual winding and continuous friction.



Integrated chip removal groove in casting base.



Use Germany IGUS cable, Phoenix terminals, Schneider contactor, the whole machine's wire arrangement is according to European CE standard.



European standard double electric cabinet design, the high and low voltage controls are isolated, which can effectively avoid the electromagnetic field interference caused by the operation of electrical components, reduce the temperature of the electric cabinet, and improve the life of the electrical appliance and the stability of the system.

Technical Parameter

	Item		Unit	DB218	DB318	DB418
	Standard controller			FANUC 0i-MF plus absolute type 0 15" LCD		
Travel	X axis travel(work-table)		mm	2300	3200	4100
	Y axis travel(saddle)		mm	2000		
	Z axis travel(spindle head)		mm	800		
	Distance from spindle nose to table		mm	200~1000		
	Distance between columns/ work piece access height		mm	1820/1000		
Work table	Table size(length*width)		mm	2300x1600	3200x1600	4100x1600
	Max. table load		kg	8000	10000	12000
	T slot size(width*distance*quantity)		mm	22x180x8		
Spindle	Spindle taper			BBT50		
	Max. spindle speed		rpm	6000(Direct-driven)		
	Spindle motor power (continual working/Max.)		kW	22/54		
	Spindle torque (continual working/Max.)		N.m	770/1892		
X/Y/Z	Rapid traverse X/Y/Z		mm/min	20000/20000/12000		15000/20000/12000
	Cutting feed rate on X/Y/Z		mm/min	1~10000		
ATC (Option)	ATC type			Arm type / Chain type		
	Tool capacity		pcs	24/32/40/60		
	Max. tool diameter		mm	∅110/∅225		
	Max. tool length		mm	350		
	Max. tool weight		kg	20		
Accuracy	VDI/DGQ3441	Full travel positioning accuracy	mm	P0.015	P0.020	P0.025
		Repeatability accuracy	mm	Ps0.012	Ps0.015	Ps0.020
	Air pressure		MPa	0.6~0.8		
	Supply voltage & frequency			3/PE,AC380V,50Hz		
	Power requirement		kVA	60		
	Machine size (L/W/H)		mm	7450x4450x4650	8950x4450x4650	10350x4450x4650
	Machine weight		kg	23000	26000	29000

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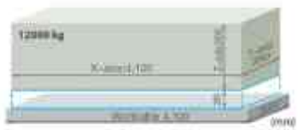
Moveable Area:



DB218



DB318



DB418

Standard&Option	DB218	DB318	DB418
FANUC 0i-MF plus absolute type 0 15" LCD	●	●	●
MITSUBISHI M80A 15" touch type LCD	○	○	○
MITSUBISHI M830S 15" touch type LCD	○	○	○
SINUMERIK 828D 15.6" LCD	○	○	○
SINUMERIK ONE 15" LCD	○	○	○
Max. 1500 blocks pre-read + Data Server 2G	●	●	●
HMI+Manual Guide i+Interpolation type straightness compensation	●	●	●
Direct driven spindle with gear box 6000rpm	●	●	●
Direct driven spindle 8000rpm	○	○	○
Direct driven spindle 10000rpm	○	○	○
Direct driven spindle with gear box 8000rpm	○	○	○
Column raise 200mm/300mm	○	○	○
Z travel enlarge to 1000mm	○	○	○
Coolant through spindle center 20/30/50/70bar	○	○	○
Arm type ATC 24T	○	○	○
Chain type ATC 32T/40T/60T	○	○	○
Rigid tapping	●	●	●
Full splash guard	●	●	●
Full enclosed guard with roof	○	○	○
Spindle chiller	●	●	●
Spindle air sealing	●	●	●
Air blowing device	●	●	●
Coolant surrounding spindle	○	○	○
Working area light	●	●	●
3 colors warning light	●	●	●
Heat exchanger in electrical cabinet	●	●	●
Portable MPG / Tool coolant system	●	●	●
Pneumatic system	●	●	●
Chain chip conveyor	●	●	●
Coil chip conveyor	●	●	●
Air gun	●	●	●
Water gun with flushing function	●	●	●
Automatically power off	●	●	●
Transformer	●	●	●
Tool kit	●	●	●
Adjustable level bolts and foundation block	●	●	●
Safety door interlock	●	●	●
Tool release pedal switch	●	●	●
Operation manual	●	●	●
Milling head and head storehouse	○	○	○
Smart spindle temperature compensation (FANUC)	○	○	○
Buzzer alarm lamp	○	○	○
A/C for electric cabinet	○	○	○
Oil circuit tool shank interface	○	○	○
Oil skimmer	○	○	○
Grease lubrication	●	●	●
Voltage stabilizer	○	○	○
Absolute linear scale (FAGOR)	○	○	○
Full enclosed iron box package	●	●	●
Water tank with level detection	○	○	○
Warranty prolong 1 year	○	○	○

● Standard ○ Optional

DB25/30 Bridge Series

Milling center for large parts

DB525



- It is widely applied in rough and fine machining of various large plates, plates, shells, boxes, moulds, etc.
- Optional automatic universal milling head is able to realize five-face machining.
- CAE analysis and design of main basic parts, with high rigidity and large cross-section to ensure strong cutting and heavy load machining.



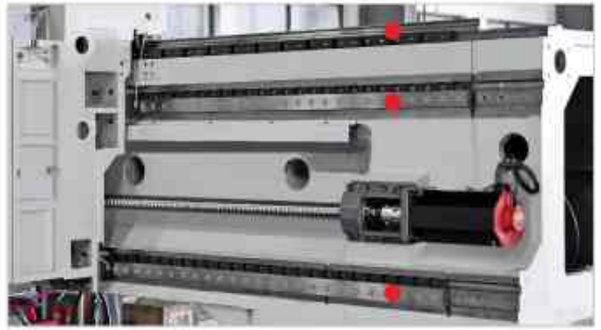
ATC is designed with safety enclosure guard with safety switch in order to protect the operator (If the door is opened during running, the machine will stop automatically)



Available option: Extended Z axis (1300/1500mm) travel with 4 linear guide ways and square ram.



Optional cantilever type operation box which is suitable for five-plane machining, it's convenient to operate machine at any position on the worktable.



Y axis is designed with a special stepped structure with three linear guide ways, combine with world well known brand roller type linear guide way, increases machine's rigidity and position accuracy dramatically.



On the back, a ladder and other safety devices simplify maintenance of the machine. Seamless steel pipes provide clean, efficient and fast oil circulation.



Both X and Y axis are equipped with high quality linear guide way, the machine bed uses four linear guide ways to provide great support for the worktable, it also increases worktable's loading ability and decrease the vibration while cutting.



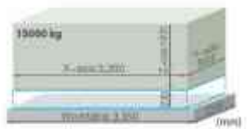
Separated strong and weak electric can eliminate the electromagnetic field interference generated by working electrical components; lower the electrical cabinet's temperature; increases electrical component's life span and system stability.

Technical Parameter

	Item	Unit	DB325	DB425	DB525	DB330	DB430	DB530
	Standard controller		FANUC 0i-MF plus absolute type 0 15" LCD					
Travel	X axis travel(work table)	mm	3200	4200	5100	3200	4200	5100
	Y axis travel(saddle)	mm	3000			3400		
	Z axis travel(spindle head)	mm	1000					
	Distance from spindle nose to table	mm	235 – 1235					
	Distance between columns/ work piece access height	mm	2520/1235			3020/1235		
Work table	Table size(length*width)	mm	3350x2200	4350x2200	5350x2200	3350x2500	4350x2500	5350x2500
	Max. table load	kg	15000	18000	21000	15000	18000	21000
	T slot size(width*distance*quantity)	mm	28x250x13	28x250x17	28x250x21	28x250x13	28x250x17	28x250x21
Spindle	Spindle taper		BBT50					
	Max. spindle speed	rpm	6000(Direct driven)					
	Spindle motor power (continual working/Max.)	kW	22/54					
	Spindle torque (continual working/Max.)	N.m	770/1892					
X/Y/Z	Rapid traverse: X/Y/Z	mm/min	15000/15000/12000	12000/15000/12000		15000/12000/12000	12000/12000/12000	
	Cutting feed rate on X/Y/Z	mm/min	1 – 8000					
ATC (DB600)	ATC type		Chian type					
	Tool capacity	pcs	32/40/60					
	Max. tool diameter	mm	Ø110/Ø225					
	Max. tool length	mm	350					
	Max. tool weight	kg	20					
Accuracy	VDI/DGQ3441 Full travel positioning accuracy	mm	P0.020	P0.025	P0.030	P0.020	P0.025	P0.030
	VDI/DGQ3441 Repeatability accuracy	mm	Ps0.015	Ps0.020	Ps0.025	P0.015	P0.020	P0.025
	Air pressure	MPa	0.6 – 0.8					
	Supply voltage & frequency		3/PE, AC380V, 50Hz					
	Power requirement	kVA	60					
	Machine size (L/W/H)	mm	9140x5770x4900	11140x5770x4900	13140x5770x4900	9140x5930x4900	11140x5930x4900	13140x5930x4900
	Machine weight	kg	42000	47000	52000	45000	50000	55000

We reserve the right to change technical parameter for improvement of our products without giving notice to customers.

Moveable Area:



DB325



DB425



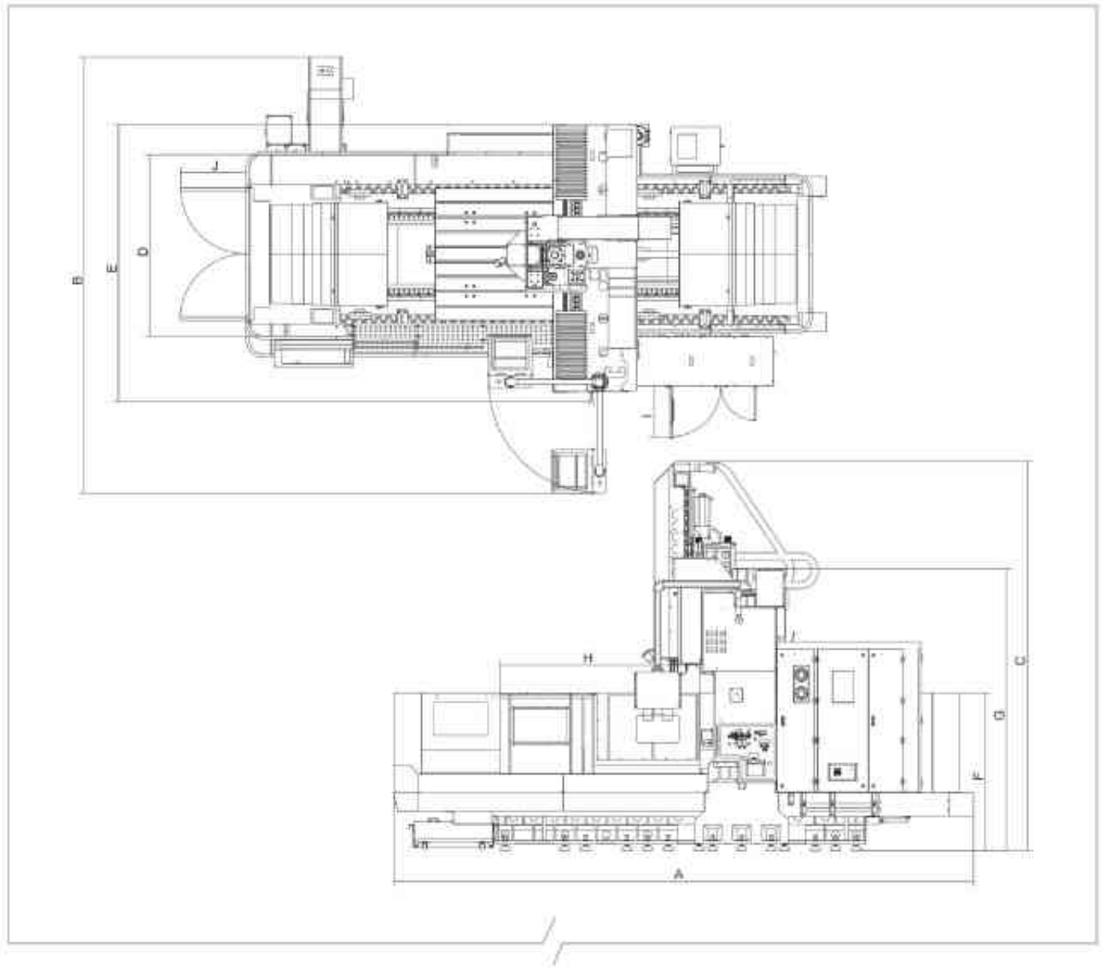
DB525

Standard&Option	DB325	DB425	DB525
FANUC 0i-MF plus absolute type 0 15" LCD	●	●	●
MITSUBISHI M80A 15" touch type LCD	○	○	○
MITSUBISHI M830S 15" touch type LCD	○	○	○
SINUMERIK828D 15.6" LCD	○	○	○
SINUMERIK5 ONE 15" LCD	○	○	○
Max. 1500 blocks pre-read + Data Server 2G	●	●	●
HMI+Manual Guide i+Interpolation type straightness compensation	●	●	●
Direct driven spindle with gear box 6000rpm	●	●	●
Direct driven spindle 8000rpm	○	○	○
Direct driven spindle with gear box 8000rpm	○	○	○
Direct driven spindle 10000rpm	○	○	○
Direct driven spindle 15000rpm	○	○	○
Column raise 200mm/300mm	○	○	○
Z travel enlarge to 1300mm	○	○	○
Z travel enlarge to 1500mm	○	○	○
Coolant through spindle center 20/30/50/70bar	○	○	○
Chain type ATC 32T/40T/60T	○	○	○
Rigid tapping	●	●	●
Full splash guard	●	●	●
Full enclosed guard with roof	○	○	○
Spindle chiller	●	●	●
Spindle air sealing	●	●	●
Air blowing device	●	●	●
Coolant surrounding spindle	○	○	○
Working area light	●	●	●
3 colors warning light	●	●	●
Heat exchanger in electrical cabinet	●	●	●
Portable MPG	●	●	●
Tool coolant system	●	●	●
Pneumatic system	●	●	●
Chain chip conveyor	●	●	●
Coil chip conveyor	●	●	●
Air gun / Water gun with flushing function	●	●	●
Automatically power off	●	●	●
Transformer / Tool kit	●	●	●
Adjustable level bolts and foundation block	●	●	●
Safety door interlock	●	●	●
Tool release pedal switch	●	●	●
Operation manual	●	●	●
Milling head and head storehouse	○	○	○
Smart spindle temperature compensation (FANUC)	○	○	○
Buzzer alarm lamp	○	○	○
A/C for electric cabinet	○	○	○
Oil circuit tool shank interface	○	○	○
Oil skimmer	○	○	○
Grease lubrication	●	●	●
Voltage stabilizer	○	○	○
Absolute linear scale (FAGOR)	○	○	○
Water tank with level detection	●	●	●
Full enclosed iron box package	○	○	○
Warranty prolong 1 year	○	○	○

● Standard ○ Optional

Standard&Option	DB330	DB430	DB530
FANUC 0i-MF plus absolute type 8, 15" LCD	●	●	●
MITSUBISHI M80A 15" touch type LCD	○	○	○
MITSUBISHI M830S 15" touch type LCD	○	○	○
SINUMERIK 828D 15.6" LCD	○	○	○
SINUMERIK ONE, 15" LCD	○	○	○
Max. 1500 blocks pre-read / Data Server 2G	●	●	●
HMI+Manual Guide I / Interpolation type straightness compensation	●	●	●
Direct driven spindle with gear box 6000rpm	●	●	●
Direct driven spindle 8000rpm	○	○	○
Direct driven spindle with gear box 8000rpm	○	○	○
Direct driven spindle 10000rpm	○	○	○
Direct driven spindle 15000rpm	○	○	○
Column raise 200mm/300mm	○	○	○
Z travel enlarge to 1300mm	○	○	○
Z travel enlarge to 1500mm	○	○	○
Coolant through spindle center 20/30/50/70bar	○	○	○
Chain type ATC 32T/40T/60T	○	○	○
Rigid tapping	●	●	●
Full splash guard	●	●	●
Full enclosed guard with roof	○	○	○
Spindle chiller	●	●	●
Spindle air sealing	●	●	●
Air blowing device	●	●	●
Coolant surrounding spindle	○	○	○
Working area light	●	●	●
3 colors warning light	●	●	●
Heat exchanger in electrical cabinet	●	●	●
Portable MPG	●	●	●
Tool coolant system	●	●	●
Pneumatic system	●	●	●
Chain chip conveyor	●	●	●
Coil chip conveyor	●	●	●
Air gun	●	●	●
Water gun with flushing function	●	●	●
Automatically power off	●	●	●
Transformer	●	●	●
Tool kit	●	●	●
Adjustable level bolts and foundation block	●	●	●
Safety door interlock	●	●	●
Tool release pedal switch	●	●	●
Operation manual	●	●	●
Milling head and head storehouse	○	○	○
Smart spindle temperature compensation (FANUC)	○	○	○
Buzzer alarm lamp	○	○	○
A/C for electric cabinet	○	○	○
Oil circuit tool shank interface	○	○	○
Oil skimmer	○	○	○
Grease lubrication	●	●	●
Voltage stabilizer	○	○	○
Absolute linear scale (FAGOR)	○	○	○
Water tank with level detection	●	●	●
Full enclosed iron box package	○	○	○
Warranty prolong 1 year	○	○	○

● Standard ○ Optional



Dimensions

	A	B	C	D	E	F	G	H	I	J
DB018	4810	4810	4806	3270	3270	2830	3213	1980	740	0
DB218	7460	4450	4850	2150	3400	2170	3260	2400	820	600
DB318	8850	4450	4850	2150	3400	2170	3260	3000	820	600
DB418	10050	3400	4850	2150	3400	2170	3260	3600	820	600
DB525	9140	6406	4806	3284	4514	1940	4060	2900	788	0
DB425	11140	6406	4806	3284	4514	1940	4060	3600	788	0
DB525	13140	6406	4806	3284	4514	1940	4060	3600	788	0
DB525	9140	6736	4806	3784	5014	1940	4060	2900	788	0
DB425	11140	6736	4806	3784	5014	1940	4060	3600	788	0
DB525	13140	6736	4806	3784	5014	1940	4060	3600	788	0

We reserve the right to change technical parameter for improvement of our products without giving notice to customers.

DM Moving Gantry Series

DM12028



* The X-axis is supported by two high-rigidity roller linear guideways on each side (left and right), with 3 slide blocks per guideway for a total of 12 slide blocks, providing high stability and excellent precision.
* The Y-axis features three roller linear guideways in a staggered arrangement with large guideway span, combined with 8 high-rigidity slide blocks for optimal cutting rigidity.
* The Z-axis incorporates four high-rigidity roller linear guideways in a compact structure with extra-large slide block span layout, effectively enhancing stability during high-speed machining.
* The X-axis adopts rack and pinion drive with dual-motor backlash compensation to achieve high positioning accuracy.
* All three axes employ a total of 4 absolute linear scales for position feedback (2 for X-axis, 1 each for Y/Z axes), improving machine operation reliability.
* The spindle head features a square ram with four-guideway structure, optimized through CAE analysis for excellent vibration resistance.
* The spindle and gearbox each utilize independent oil chillers for forced circulation cooling, rapidly dissipating heat to ensure thermal stability of the entire machine.

Technical Parameter

	Item	Unit	DM3016	DM4016	DM6016	DM8016	DM10016	DM12016
	Standard controller		FANUC 0i-MF plus absolute, type 0 system, 15" color LCD					
Travel	X axis travel(beam)	mm	3000	4000	6000	8000	10000	12000
	Y axis travel(saddle)	mm	1600					
	Z axis travel(spindle head)	mm	1300					
	Distance from spindle nose to table	mm	325 - 1625					
	Distance between columns	mm	2450					
Work table	Table size(length×width)	mm	3000×1600	4000×1600	6000×1600	8000×1600	10000×1600	12000×1600
	Max. table load	kg/m²	5000					
	T slot size(width×distance×quantity)	mm	22×250×12	22×250×16	22×250×24	22×250×32	22×250×40	22×250×48
Spindle	Spindle taper		BBT50 (45° pull stud)					
	Max. spindle speed	rpm	6000 (Direct driven)					
	Spindle motor specification (continual working/Max.)	kW	22/54					
	Spindle torque (continual working/Max.)	N.m	770/1892					
X/Y/Z	Rapid traverse (X)	mm/min	35000					
	Rapid traverse (Y)	mm/min	15000					
	Rapid traverse (Z)	mm/min	12000					
ATC (opt.)	Tool capacity	pcs	32/40/60					
	Max. tool diameter	mm	Ø100/Ø225					
	Max. tool weight	kg	20					
	Power requirement	kVA	80					
	Machine size (L/W/H)	mm	8420×6164×5280	8920×6164×5280	11420×6164×5280	13920×6164×5280	16420×6164×5280	18920×6164×5280
	Machine weight	kg	52000	54000	71000	88000	105000	122000

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Technical Parameter

	Item	Unit	DM3022	DM4022	DM6022	DM8022	DM10022	DM12022
	Standard controller		FANUC 0i-MF plus absolute, type 0 system, 15" color LCD					
Travel	X axis travel(beam)	mm	3000	4000	6000	8000	10000	12000
	Y axis travel(saddle)	mm	2200					
	Z-axis travel(spindle head)	mm	1300					
	Distance from spindle nose to table	mm	325 - 1625					
	Distance between columns	mm	3050					
Work table	Table size(length×width)	mm	3000×2200	4000×2200	6000×2200	8000×2200	10000×2200	12000×2200
	Max. table load	kg/m	5000					
	T slot size(width×distance×quantity)	mm	22×250×12	22×250×16	22×250×24	22×250×32	22×250×40	22×250×48
Spindle	Spindle taper		BBT50 (45° pull stud)					
	Max. spindle speed	rpm	6000 (Direct driven)					
	Spindle motor specification (continual working/Max.)	kW	22/54					
	Spindle torque (continual working/Max.)	N.m	770/1892					
X/Y/Z	Rapid traverse (X)	mm/min	35000					
	Rapid traverse (Y)	mm/min	15000					
	Rapid traverse (Z)	mm/min	12000					
ATC(Option)	Tool capacity	pcs	32/40/60					
	Max. tool diameter	mm	∅100/∅225					
	Max. tool weight	kg	20					
	Power requirement	kVA	80					
	Machine size (L/W/H)	mm	8420×6764×5280	8920×6764×5280	11420×6764×5280	13920×6764×5280	16420×6764×5280	18920×6764×5280
	Machine weight	kg	54000	58000	73000	90000	107000	124000

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Standard&Option	DM3016/DM4016/DM6016/DM8016/DM10016/DM12016 DM3022/DM4022/DM6022/DM8022/DM10022/DM12022
FANUC 0i-MF plus absolute, type 0 system, 15" color LCD	●
Customized operation panel	●
Rigid tapping	●
Transformer	●
3-color indication light	●
Portable MPG	●
Auto power off	●
Safety door interlock	●
Interpolation type straightness compensation	●
iHMI+Manual Guide i	●
Max.1500, min. 400 blocks look-ahead	●
Data server (2GB)	●
Fast Ethernet board	●
Tool release foot switch and button	●
Water tank with level detection	●
Absolute grating ruler (FAGOR/ HEIDENHAIN)	●
BBT50 direct-driven spindle, 6000rpm (with gear box)	●
X-axis rack and pinion drive	●
Z-axis travel enlarge to 1300mm	●
Spindle oil chiller	●
Machining air blowing	●
Coolant unit	●
Spindle air sealing	●
Air gun /water gun	●
Grease lubrication system	●
Pneumatic system	●
Protective cover	●
Heat exchanger of electric cabinet	●
Chain chip conveyor	●
Operation manuals	●
Adjustable lever bolts and foundation blocks	●
Rotary type operation box	●
High and low voltage isolated electric cabinet	●
SIEMENS 828D SW28X 15.6" LCD	○
Measurement device (tool, workpiece)	○
Voltage regulator	○
Intelligent spindle thermal compensation (FANUC system)	○
Collision protection system	○
HSK-A63 direct-driven spindle, 20000rpm	○
HSK-A100 direct-driven spindle, 12000rpm (305Nm)	○
BBT50 direct-driven spindle, 8000rpm (with GTP gearbox)	○
BBT50 direct-driven spindle, 10000rpm (without gearbox)	○
Air dryer	○
CTS 20/30/50/70bar (with independent unit)	○
CTS 20-70bar, pressure adjustable (with independent unit)	○
Z-axis travel enlarge to 1500mm	○
Chain type tool magazine (ATC), 32T/40T/60T	○
Different kinds of automatic extra milling head	○
Head storehouse on floor	○
Oil skimmer (Chinese brand)	○
Oil skimmer (Japanese brand)	○
Air conditioner of electric cabinet	○
Enclosed iron package	○
Warranty prolong 1 year	○

● Standard ○ Optional × Not available

DTX Trunnion Full 5-Axis Series

DTXB800











* DTX vertical 5 axis machining center is widely applied in 5 axis type components and complicated mold cutting.
* Designed with outstanding structure with high rigidity ,the world famous brand of linear guide ways are used on all three axes to achieve high accuracy machining ability.
* The major parts are manufactured from high grade cast iron and released the stress by heat treatment , ensuring the best structural stability and positioning accuracy.
* Double support design on the A axis, with compact structure, great rigidity, optimized loading capacity and precise positioning accuracy.
* Cradle type structure, higher machining efficiency, tool length has no effect on the machining accuracy, ensure the 3D space shape accuracy.
* The grease lubrication system is configured as standard, with low maintenance budget, environmental friendly.

Technical Parameter

	Item		Unit	DTX170	DTX400	DTX630	DTXB500	DTXB600	DTXB800
	Standard controller			HEIDENHAIN TNC7					
Travel	X axis travel(work-table)		mm	350	600	800	660	860	900
	Y axis travel(saddle)		mm	500	580	760	800	800	1050
	Z axis travel(spindle head)		mm	400	530	700	500	450	700
	Distance from spindle nose to table		mm	100~500	100~630	50~750	50~550	50~500	180~880
Work table	Table diameter		mm	∅170	∅400	∅630	∅500	∅630	∅800
	T slot size (quantity*width)		mm	4x12	6x12	8x14	8x12	8x14	7x14
	Workpiece max. diameter		mm	∅240	∅600	∅800	∅630	∅800	∅1000
	Max. table load		kg	70	300	500	300	500	1200
	Rotation angle	A axis		+30 ° ~ -120 °	+90 ° ~ -120 °				+120 ° ~ -120 °
		C axis		360 °					
	Max. speed	A axis	rpm	20	22.2	12.5	22.2	12.5	50
		C axis	rpm	27.8	22.2	16.7	22.2	16.7	100
Spindle	Spindle taper			HSK-A63					
	Max. spindle speed		rpm	15000(Direct driven)					
	Spindle motor power (continual working/Max.)		kW	12/17					
	Spindle torque (continual working/Max.)		N.m	63.7/106.8					
X/Y/Z	Rapid traverse X/Y		mm/min	40000	36000	20000	30000		36000
	Rapid traverse Z		mm/min	32000	24000	20000	30000		36000
	Cutting feed rate on X/Y/Z		mm/min	1 ~ 10000					
ATC (Option)	ATC type			Arm type			Drum type		Arm type
	Tool capacity		pcs	24			20		32
	Max. tool diameter		mm	∅80/∅130		∅80/∅150	∅100		∅75/∅130
	Max. tool length		mm	300			235		300
	Max. tool weight		kg	8					
Accuracy	VDI/DGQ3441	Full travel positioning accuracy	mm	P0.008	P0.012		P0.010		P0.012
		Repeatability accuracy	mm	Ps0.006	Ps0.008		Ps0.008		Ps0.008
	Air pressure		MPa	0.6 ~ 0.8					
	Supply voltage & frequency			3/PE, AC380V, 50Hz					
	Power requirement		kVA	30		40	60	60	80
	Machine size (L/W/H)		mm	3650x3115x2930	4050x3360x3170	4370x4200x3430	4220x4150x3415	4220x4150x3415	5790x4320x4250
	Machine weight		kg	5800	8250	13700	12500	13500	22000

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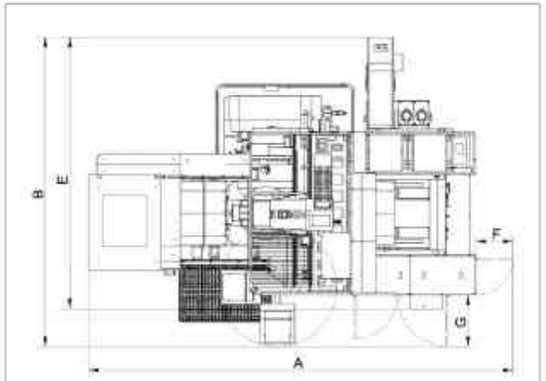
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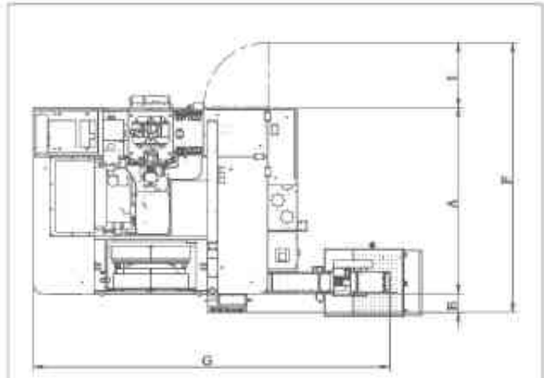


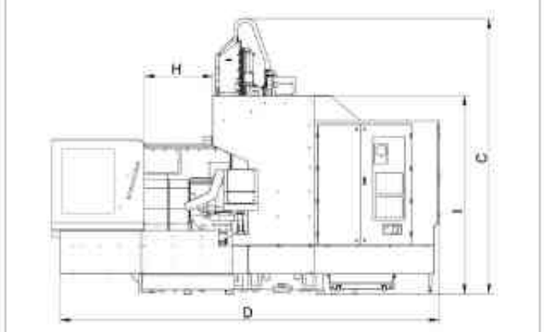
DTX170 DTX400 DTXB500 DTX630/DTXB600 DTXB800

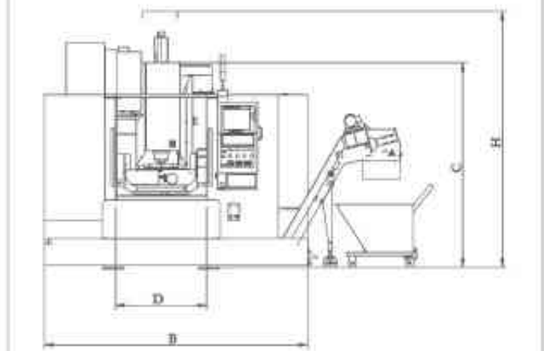
Standard&Option	DTX170	DTX400	DTX630	DTXB500	DTXB600	DTXB800
HEIDENHAIN TNC7 (5-axis simultaneous control , absolute type system)	●	●	●	●	●	●
15-inch color LCD display	●	●	●	●	●	●
32G hard disk	●	●	●	●	●	●
Advanced function set 1	●	●	●	●	●	●
Advanced function set 2	●	●	●	●	●	●
FANUC 0i-MF plus 15" cradle five-axis, absolute type 0 system	○	○	○	○	○	○
HuazhongCNC system	○	○	○	○	○	○
Direct driven spindle 15000rpm HSKA63	●	●	●	●	●	●
Direct driven spindle 15000rpm BBT40	○	○	○	○	○	○
Electric spindle 20000rpm HSK A63	○	○	○	○	○	×
Electric spindle 24000/36000rpm HSK A63	○	○	○	○	○	○
Arm type ATC 24T	●	●	●	×	×	×
Drum type ATC 20T	×	×	×	●	●	×
Arm type ATC 32T	○	○	○	○	○	●
Chain type ATC 32T	×	×	×	○	○	○
Chain type ATC 40T/60T	×	○	○	○	○	○
Rigid tapping	●	●	●	●	●	●
Full-enclosed splash guard	●	●	●	●	●	●
Spindle chiller	●	●	●	●	●	●
Spindle air sealing	●	●	●	●	●	●
Air blowing device	●	●	●	●	●	●
Coolant surrounding spindle	●	●	●	●	●	●
Working area light/3 colors warning light	●	●	●	●	●	●
A/C for electric cabinet	●	●	●	●	●	●
Portable MPG	●	●	●	●	●	●
Grease lubrication device	●	●	●	●	●	●
Coolant system / Pneumatic system	●	●	●	●	●	●
Chain chip conveyor	●	●	●	●	●	●
Coil chip conveyor	○	×	●	●	●	●
Air gun	●	●	●	●	●	●
Water gun with flushing function	●	●	●	●	●	●
Oil skimmer	○	○	○	○	○	○
Automatically power off	●	●	●	●	●	●
Transformer	●	●	●	●	●	×
Tool kit	●	●	●	●	●	●
Adjustable level bolts and foundation blocks	●	●	●	●	●	●
Safety door interlock	●	●	●	●	●	●
Operation manual	●	●	●	●	●	●
Oil-way reservation in middle of worktable (two in and two out)	×	○	○	○	○	○
SINUMERIK ONE, 5-axis simultaneous control system	○	○	○	○	○	○
Roof spraying system	○	○	○	○	○	○
Mass flow chip flushing function	○	○	○	○	○	○
Drawer type water tank	○	○	○	○	○	○
Buzzer alarm lamp	○	○	○	○	○	○
Air dryer	○	○	○	○	○	○
Oil mist collection machine	○	○	○	○	○	○
Coolant through spindle center 20/30/50/70bar	○	○	○	○	○	○
Voltage stabilizer	○	○	○	○	○	○
Automatic accuracy compensation by reference ball	○	○	○	○	○	○
Collision avoidance device / Measuring system	○	○	○	○	○	○
3 axis absolute linear scale (FAGOR)	●	●	●	●	●	●
A/C axis absolute grating scale (FAGOR)	●	●	●	●	●	●
Water tank with level detection	●	●	●	●	●	●
Full enclosed iron box package	○	○	○	○	○	○
Warranty prolong 1 year	○	○	○	○	○	○

● Standard ○ Optional × Not available









Dimensions

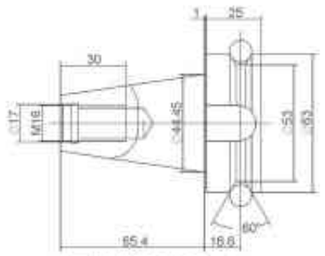
	A	B	C	D	E	F	G	H	I
DTX8600	4810	4780	3415	4220	4150	570	840	1240	2470
DTX8800	4810	4780	3415	4220	4150	570	840	1240	2470
DTX8800	6470	4780	4250	5780	4120	570	780	1050	2660

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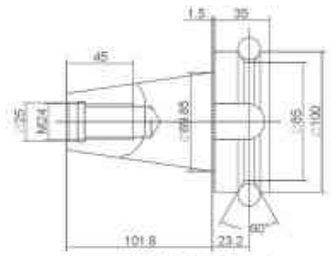
Dimensions

	A	B	C	D	E	F	G	H	I
DTX170	2800	2780	2730	1000	180	3115	3650	2650	750
DTX400	2223	2674	2678	1100	180	3560	4050	3175	750
DTX800	2628	3200	3198	1570	600	4200	4370	3430	740

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■ BBT40 Tool Shank



■ BBT50 Tool Shank

DSX Swivel Head Full 5-Axis Series

DSX318



* DSX series five axis double column machining center is widely used in precision machining of aerospace, automobile mold, complex curved surface and other industries.
* The main body is designed with a high rigidity double column structure, and the base casting is treated by three times of aging to ensure the long-term stability of mechanical accuracy.
* Both A and C rotating axes are equipped with absolute grating scales, which run smoothly and ensure the machine positioning and repeatability accuracy.
* The A and C axes of the swing head are driven by direct drive motors, with high speed, high response, non-backlash, and never wear.
* Five axis anti-collision function is equipped as standard, the response time is less than 10ms, which can effectively protect tools, workpieces and equipment.

Technical Parameter

	Item		Unit	DSX218	DSX222	DSX318	DSX322	DSX418	DSX422
	Standard controller			HEIDENHAIN TNC7					
Travel	X axis travel(work-table)		mm	2300		3200		4100	
	Y axis travel(saddle)		mm	2500	2800	2500	2800	2500	2800
	Z axis travel(spindle head)		mm	1000					
	Rotation Angle	A axis		±110°					
		C axis		±360°					
	Distance from spindle nose to table		mm	160 ~ 1160					
	Distance between columns/ work piece access height		mm	1820/1400	2220/1400	1820/1400	2220/1400	1820/1400	2220/1400
Work table	Table size(length×width)		mm	2300x1600	2300x1800	3200x1600	3200x1800	4100x1600	4100x1800
	Max. table load		kg	8000		10000		12000	
	T slot size(width×distance×quantity)		mm	22x180x8	22x180x10	22x180x8	22x180x10	22x180x8	22x180x10
Spindle	Spindle taper			HSK-A63					
	Max. spindle speed		rpm	20000 (Built-in)					
	Spindle motor specification (continual working/Max.)		kW	25/30					
	Spindle torque (continual working/Max.)		N.m	70/87					
X/Y/Z	Rapid traverse X/Y/Z		mm/min	15000/20000/12000					
	Cutting feed rate on X/Y/Z		mm/min	1~10000					
	Max speed	A axis	rpm	60					
		C axis	rpm	60					
ATC (Option)	Tool capacity		pcs	32/40/60					
	Max. tool diameter		mm	Ø75/Ø130					
	Max. tool length		mm	300					
	Max. tool weight		kg	8					
Accuracy	VDI/DGQ3441	Full travel positioning accuracy	mm	P0.040					
		Repeatability accuracy	mm	Ps0.030					
	Air pressure		MPa	0.6~0.8					
	Supply voltage & frequency			3/PE, AC380 V, 50 Hz					
	Power requirement		kVA	80					
	Machine size (L/W/H)		mm	7366x4933x5510	7366x5333x5510	9066x4933x5510	9066x5333x5510	10466x4933x5510	10466x5333x5510
	Machine weight		kg	29000	31000	32000	34000	35000	37000

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Technical Parameter

	Item		Unit	DSX325	DSX330	DSX425	DSX430	DSX525	DSX530
	Standard controller			HEIDENHAIN TNC7					
Travel	X axis travel(work table)		mm	3200		4200		5100	
	Y axis travel(saddle)		mm	2900	3400	2900	3400	2900	3400
	Z axis travel(spindle head)		mm	1000					
	Rotation Angle	A axis		±110°					
		C axis		±360°					
	Distance from spindle nose to table		mm	160 ~ 1160					
	Distance between columns/ work piece access height		mm	2520/1300	3020/1300	2520/1300	3020/1300	2520/1300	3020/1300
Work table	Table size(length×width)		mm	3350x2200	3350x2500	4350x2200	4350x2500	5350x2200	5350x2500
	Max. table load		kg	15000		18000		21000	
	T slot size(width×distance×quantity)		mm	28x250x13		28x250x17		28x250x21	
Spindle	Spindle taper			HSK-A63					
	Max. spindle speed		rpm	20000 (Built-in)					
	Spindle motor specification (continual working/Max.)		kW	25/30					
	Spindle torque (continual working/Max.)		N.m	70/87					
X/Y/Z	Rapid traverse X/Y/Z		mm/min	15000/12000/12000		12000/12000/12000			
	Cutting feed rate on X/Y/Z		mm/min	1~8000					
	Max speed	A axis	rpm	60					
		C axis	rpm	60					
ATC (Option)	Tool capacity		pcs	32/40/60					
	Max. tool diameter		mm	Ø75/Ø130					
	Max. tool length		mm	300					
	Max. tool weight		kg	8					
Accuracy	VDI/DGQ3441	Full travel positioning accuracy	mm	P0.040					
		Repeatability accuracy	mm	Ps0.030					
	Air pressure		MPa	0.6~0.8					
	Supply voltage & frequency			3/PE, AC380 V, 50 Hz					
	Power requirement		kVA	80					
	Machine size (L/W/H)		mm	9140x6040x5570	9140x6210x5570	11140x6040x5570	11140x6210x5570	13140x6040x5570	13140x6210x5570
	Machine weight		kg	47000	50000	52000	55000	57000	60000

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Standard&Option	DSX218/DSX222/DSX318 DSX322/DSX418/DSX422	DSX325/DSX330/DSX425 DSX430/DSX525/DSX530
HEIDENHAIN TNC7 (5-axis simultaneous control , absolute type system)	●	●
32G hard disk	●	●
Advanced function set 2	●	●
Working light	●	●
HR510 Portable MPG	●	●
Safety door interlock	●	●
Collision protection system(monitronix)	●	●
B/C-axis absolute type grating ruler	●	●
Double-arm direct drive swing head	●	●
B/C axis pneumatic locking	●	●
Spindle air sealing	●	●
Coolant surrounding coolant	●	●
Grease lubrication system	●	●
Air gun /water gun	●	●
Protective cover	●	●
Tool kit	●	●
Operation manuals	●	●
Rotary type operation box	●	●
Air dryer	●	●
15-inch color LCD display	●	●
Advanced function set 1	●	●
Rigid tapping	●	●
3-color indication light	●	●
Auto power off	●	●
Tool release foot switch and button	●	●
Absolute grating ruler(FAGOR/ HEIDENHAIN)	●	●
Water tank with level detection	●	●
S/C-axis direct drive motor®	●	●
Built-in spindle, HSK A63-20000rpm	●	●
Machining air blowing	●	●
Coolant unit	●	●
Pneumatic system	●	●
Spindle water chiller	●	●
Air conditioner of electric cabinet	●	●
Chain chip conveyor	●	●
Adjustable level bolts and foundation blocks	●	●
High and low voltage isolated electric cabinet	●	●
SINUMERIK ONE, 5-axis simultaneous control system	○	○
Voltage regulator	○	○
CTS 20/30/50/70bar (with independent unit)	○	○
Chain type tool magazine (ATC), 32T/40T/60T	○	○
Drawer type water tank	○	○
Oil skimmer (Chinese brand)	○	○
Fully enclosed iron box packaging	○	○
Measurement device (tool, workpiece)	○	○
Automatic accuracy compensation by reference ball (including 2D workpiece measuring instrument)	○	○
CTS 20-70bar, pressure adjustable (with independent unit)	○	○
Oil-mist recycling machine	○	○
Oil skimmer (Japanese brand)	○	○
Warranty prolong 1 year	○	○

● Standard ○ Optional × Not available

DMX 5-Axis Gantry Series

DMX4022



- The X-axis is supported by two high-rigidity roller linear guideways on each side (left and right), with 3 slide blocks per guideway for a total of 12 slide blocks, providing high stability and excellent precision.
- The Y-axis features two roller linear guideways arranged horizontally and vertically in a staggered layout with large guideway span, combined with 6 high-rigidity slide blocks for optimal cutting rigidity.
- The Z-axis incorporates four high-rigidity roller linear guideways in a compact structure with extra-large slide block span layout, effectively enhancing stability during high-speed machining.
- The X and Y axes adopt linear motor drive, generating thrust through magnetic force with 100% direct power transmission, offering high positioning accuracy and fast dynamic response. As no mechanical wear occurs, permanent machine accuracy is ensured.
- The Z-axis features symmetrical dual ballscrew center-of-gravity drive for smooth operation during high-speed feed. Driven by high-power servo motors, the hydraulic counterbalance design is eliminated to prevent mechanical backlash.
- All three axes employ a total of 4 absolute linear scales for position feedback (2 for X-axis, 1 each for Y/Z axes), improving machine operation reliability.
- The A and C axes of the swivel head are equipped with rotary encoders as standard, with positioning accuracy up to <15" (arcseconds). Standard 5-axis collision protection with response time <10ms effectively protects tools, workpiaces, and equipment.
- Two high-power variable frequency water chillers are configured to provide forced circulation cooling for the linear motors and the 5-axis swivel head respectively, improving overall machining accuracy and workpiece surface quality.

Technical Parameter

	Item		Unit	DMX3016	DMX4016	DMX6016	DMX8016	DMX10016	DMX12016
	Standard controller			HEIDENHAIN TNC7 (5-axis simultaneous control , absolute type system)					
Travel	X axis travel(beam)		mm	3000	4000	6000	8000	10000	12000
	Y axis travel(saddle)		mm	1600					
	Z axis travel(spindle head)		mm	1000					
	Rotation Angle	A axis		±110°					
		C axis		±360°					
	Distance from spindle nose to table		mm	160 - 1160					
	Distance between columns		mm	2450					
Work table	Table size(length×width)		mm	3000×1600	4000×1600	6000×1600	8000×1600	10000×1600	12000×1600
	Max. table load		kg/m²	5000					
	T slot size(width×distance×quantity)		mm	22×250×12	22×250×16	22×250×24	22×250×32	22×250×40	22×250×48
Spindle	Spindle taper			HSK-A63					
	Max. spindle speed		rpm	20000 (Built-in)					
	Spindle motor specification (continual working/Max.)		kW	25/30					
	Spindle torque (continual working/Max.)		N.m	70/87					
X/Y/Z	Rapid traverse X/Y		mm/min	60000					
	Rapid traverse Z		mm/min	20000					
	Max speed	A axis	rpm	60					
		C axis	rpm	60					
ATC 10bits	Tool capacity		pcs	32/40/60					
	Max. tool diameter		mm	Ø75/Ø125					
	Max. tool weight		kg	8					
	Power requirement		kVA	170					
	Machine size (L/W/H)		mm	8420×6164×5260	8920×6164×5260	11420×6164×5260	13920×6164×5260	16420×6164×5260	18920×6164×5260
	Machine weight		kg	52000	54000	71000	88000	105000	122000

We reserve the right to change technical parameter for improvement of our products without giving notice in advance.

Technical Parameter

	Item		Unit	DMX3022	DMX4022	DMX6022	DMX8022	DMX10022	DMX12022
	Standard controller			HEIDENHAIN TNC7 (5-axis simultaneous control , absolute type system)					
Travel	X axis travel(beam)		mm	3000	4000	6000	8000	10000	12000
	Y axis travel(saddle)		mm	2200					
	Z axis travel(spindle head)		mm	1000					
	Rotation Angle	A axis		±110°					
		C axis		±360°					
	Distance from spindle nose to table		mm	160 ~ 1160					
	Distance between columns		mm	3050					
Work table	Table size(length×width)		mm	3000×2200	4000×2200	6000×2200	8000×2200	10000×2200	12000×2200
	Max. table load		kg/m	5000					
	T slot size(width×distance×quantity)		mm	22×250×12	22×250×16	22×250×24	22×250×32	22×250×40	22×250×48
Spindle	Spindle taper			HSK-A63					
	Max. spindle speed		rpm	20000 (Built-in)					
	Spindle motor specification (continual working/Max.)		kW	25/30					
	Spindle torque (continual working/Max.)		N.m	70/87					
X/Y/Z	Rapid traverse X/Y		mm/min	60000					
	Rapid traverse Z		mm/min	20000					
	Max speed	A axis	rpm	60					
		C axis	rpm	60					
ATC (opt.)	Tool capacity		pcs	32/40/60					
	Max. tool diameter		mm	∅75/∅125					
	Max. tool weight		kg	8					
	Power requirement		KVA	170					
	Machine size (L/W/H)		mm	8420×6764×5260	8920×6764×5260	11420×6764×5260	13920×6764×5260	16420×6764×5260	18920×6764×5260
	Machine weight		kg	54000	56000	73000	90000	107000	124000

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Standard&Option	DMX3016/DMX4016/DMX6016/DMX8016/DMX10016/DMX12016 DMX3022/DMX4022/DMX6022/DMX8022/DMX10022/DMX12022
HEIDENHAIN TNC7 (5-axis simultaneous control , absolute type system)	●
19-inch color LCD display	●
32G hard disk	●
Advanced function set 1	●
Advanced function set 2	●
Rigid tapping	●
Working light	●
3-color indication light	●
HR510 Portable MPG	●
Auto power off	●
Safety door interlock	●
Tool release foot switch and button	●
Collision protection system	●
Absolute grating ruler (FAGOR/ HEIDENHAIN)	●
A/C-axis absolute type grating ruler	●
Water tank with level detection	●
Double-arm direct drive swing head	●
A/C-axis direct drive motor	●
X/Y-axis direct drive motor	●
Z-axis travel 1000mm	●
A/C axis pneumatic locking	●
Built-in spindle, HSK A63-20000rpm	●
Spindle air sealing	●
Machining air blowing	●
Coolant surrounding coolant	●
Coolant unit	●
Grease lubrication system	●
Pneumatic system	●
Air gun / water gun / Spindle water chiller	●
Protective cover	●
Air conditioner of electric cabinet	●
Tool kit / Chain chip conveyor	●
Operation manuals	●
Adjustable level bolts and foundation blocks	●
Rotary type operation box	●
High and low voltage isolated electric cabinet	●
Air dryer	●
SINUMERIK ONE, 5-axis simultaneous control system	○
Measurement device (tool, workpiece)	○
Voltage regulator	○
Automatic accuracy compensation by reference ball (including 2D workpiece measuring instrument)	○
CTS 20/30/50/70bar (with independent unit)	○
CTS 20-70bar, pressure adjustable (with independent unit)	○
Chain type tool magazine (ATC), 32T/40T/60T	○
Z-axis travel enlarge to 1300/1500mm	○
Built-in spindle, HSK A100-12000rpm	○
X-axis rack and pinion drive	○
Oil skimmer (Chinese brand)	○
Oil skimmer (Japanese brand)	○
Oil-mist recycling machine	○
Fully enclosed iron box packaging	○
Warranty prolong 1 year	○

● Standard ○ Optional × Not available

DH Horizontal Machining Center Series

DH6300









* DH series is suitable for machining box, shell and disc parts widely used in automotive, die & mold, and machinery manufacturing industries.
* It adopts the internationally popular "T" shaped structure layout, which has sufficient rigidity, large processing space, compact structure and saves space;
* Adopting hollow cooling and motor base cooling technology for three-axis ballscrews, the machine tool effectively controlling heat generation and deformation during machine tool movement, and significantly improving the machining accuracy of the machine tool.
* The motor drives the spindle directly via the gearbox to ensure high transmission efficiency, delivering a maximum output torque of 1892Nm.
* Featured with a standard 2-APC, it adopts hydraulic and cam-controlled to realize rapid pallet exchange. The operation process is stable, smooth and reliable.

Technical Parameter

	Item		Unit	DH6300A	DH6300B	DH8000A	DH8000B
	Standard controller			FANUC 0i-MF Plus Step2, absolute 3A system, 15" LCD			
Travel	X axis travel(Column)		mm	1050		1400	
	Y axis travel(spindle head)		mm	900		1080	
	Z axis travel(Rotary Table)		mm	900		1050	
	Spindle nose to worktable center		mm	200 – 1100		200 – 1250	
	Spindle center to worktable surface		mm	80 – 980		100 – 1180	
Work table	Table size(length*width)		mm	630×630		800×800	
	Pallet Quantity			2		2	
	Table Indexing Accuracy			1°×360	0.001°	1°×360	0.001°
	Max. table load		kg	1300		2000	
	T slot size(width*distance*quantity)		mm	18×125×5		22×160×5	
	Max. part(Diameter/Height)		mm	∅1100×1100		∅1300×1300	
Spindle	Spindle taper			BBT50 (45°Pull Stud)			
	Max. spindle speed(Direct driven)		rpm	6000(Direct-driven)			
	Spindle motor power (continual working/Max.)		kW	22/54			
	Spindle torque (continual working/Max.)		N.m	770/1892			
X/Y/Z	Rapid traverse X/Y/Z		mm/min	40000			
	Cutting feed rate on X/Y/Z		mm/min	1 – 30000		1 – 20000	
ATC (Option)	ATC type			Chain type			
	Tool capacity		pcs	40/60			
	Max. tool diameter		mm	∅125/∅230			
	Max. tool length		mm	500			
	Max. tool weight		kg	25			
Accuracy	VDI/DGQ3441	Full travel positioning accuracy	mm	P0.014			
		Repeatability accuracy	mm	Ps0.008			
	Air pressure		MPa	0.6 ~ 0.8			
	Supply voltage & frequency			3 /PE, AC380V, 50Hz			
	Power requirement		kVA	60			
	Machine size (L/W/H)		mm	5910×3760×3550		5910×5290×3850	
	Machine weight		kg	16500		21000	

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	DH6300A/DH8000A	DH6300B/DH8000B
FANUC 0i-MF Plus Step2, absolute 3A system, 15" LCD	●	●
Direct driven spindle with gear box 6000rpm	●	●
Direct driven spindle 6000rpm	○	○
Direct driven spindle 8000rpm	○	○
Direct driven spindle 10000rpm	○	○
Direct driven spindle with gear box 8000rpm	○	○
Chain type ATC 40T/60T	○	○
Max.1500 blocks pre-read	●	●
Data Server 2G	●	●
Fast Ethernet	●	●
Customized Operation Panel	●	●
Rigid tapping	●	●
Transformer	●	●
Working area light	●	●
3 colors warning light	●	●
Portable MGP	●	●
Automatically power off	●	●
Safety door interlock	●	●
Tooling release button	●	●
Water tank with level detection	●	●
Dual Pallet Changer and Pallet Exchange System	●	●
Single Pallet	○	○
1° Indexing Positioning Dual Pallet	●	×
0.001° Continuous Indexing Dual Pallet	×	●
Three-axis Screw Hollow Cooling System	●	●
Coolant surrounding spindle	●	●
Spindle Oil Chiller	●	●
Air gun/Water gun with flushing function	●	●
Spindle air sealing/Air blowing decice	●	●
Grease lubrication	●	●
Pneumatic system	●	●
Hydraulic system	●	●
Full protective cover	●	●
AC of electric cabinet	●	●
Rotary Control Panel	●	●
High-Low Voltage Isolated Electric Cabinet	●	●
Oil skimmer	●	●
Roller Scraper Type Chip Conveyor	●	●
Coil chip conveyor	●	●
Top Spray Chip Flushing System	●	●
Front and Side Door Footboard	●	●
Tool kit	●	●
Adjustable level bolts and foundation blocks	●	●
Operation manual	●	●
3 Axis absolute grating scale	○	○
Workpiece measuring instrument	○	○
Voltage stabilizer	○	○
Buzzer alarm lamp	○	○
Coolant through spindle center 20/30/50/70bar	○	○
Oil mist collection machine	○	○
Full enclosed iron box package	○	○
Warranty prolong 1 year	○	○

● Standard ○ Optional × Not available