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Double Column Machining Center

DMC series
DMCB series

ECOM TAIWAN

TEL：+886-4-7389907
FAX：+886-4-7382139
ADD：No. 376, Sec. 3, Taihe Rd., Changhua City, Changhua County 500, Taiwan
Email：info@ecomcnc.com

ECOM CHINA

TEL：+86-596-7672668
FAX：+86-596-7672636
ADD：No. 87, Qiaodong Rd., Fengtian Town, Nanjing County,Zhangzhou City, Fujian Province, China
Email：ecomcnc@hotmail.com

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DMC: XYZ LINEAR WAY
DMCB: Z BOX WAY

is suitable for various machining fields, such as molding, auto parts, aerospace components.

Superior Machine Structure

A **Extra wide column base with L-foot design, prevents the headstock from leaning forward also ensures rigidity and machining stability of the machine.**

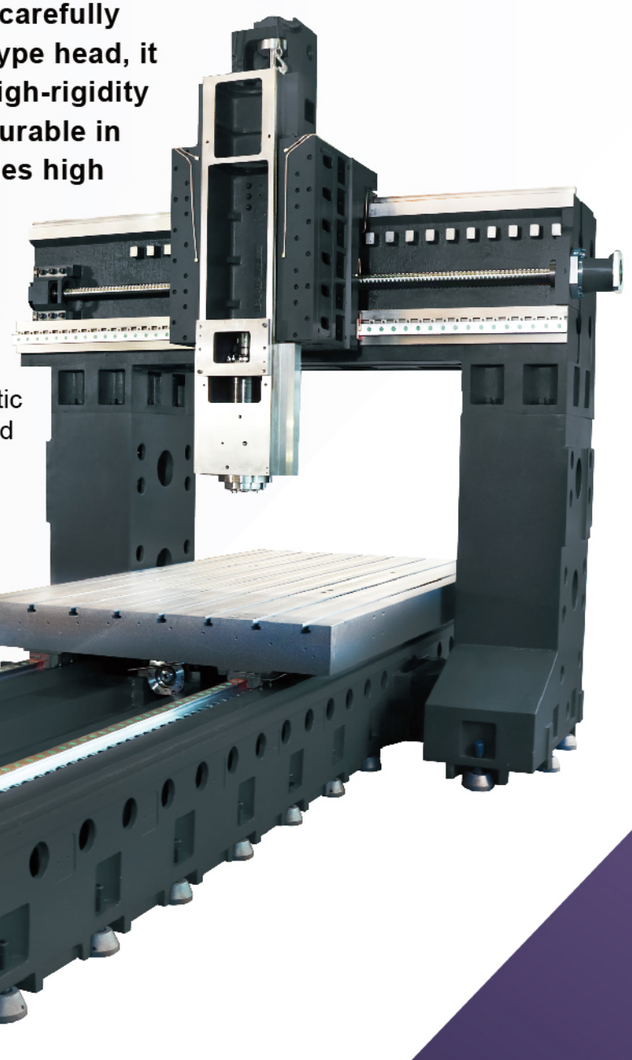
B **High rigidity internal ribs structure design Beam of large cross sectional area is step type linear way design. Guide way with large span, small distance between spindle and slider, and small turning torque make the structural rigidity better.**

C **Z axis employs dual oil cylinder balance system, making sure that ball screw and spindle move smoothly, maintaining high repeatability positioning accuracy.**

Excellent Machining Performance

This product series has been carefully designed. In addition to belt-type head, it is also optional to choose a high-rigidity gearbox spindle. It is highly durable in heavy-load cutting and provides high machining efficiency.

- Optional direct type spindle is suitable for molding machining, making the surface smooth.
- Optional manual or semi-automatic 90 degress horizontal milling head for 5-face machining center.
- Z axis with high rigidity box ways design for heavy duty cutting.



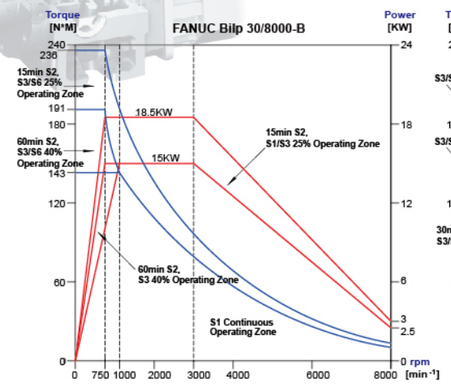
Head Structure

Optional belt-type spindle or direct type spindle meet different machining requirements. The speed range is 6000-10000rpm.

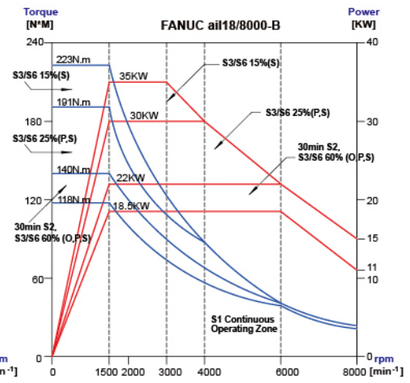
ZF gearhead: Provides high torque at low speed for heavy duty cutting; high power for machining requirement of the workpiece with smooth surface. The lubrication system in the gearbox maintains good operation and keeps gearbox at constant temperature.

Spindle output Diagrams

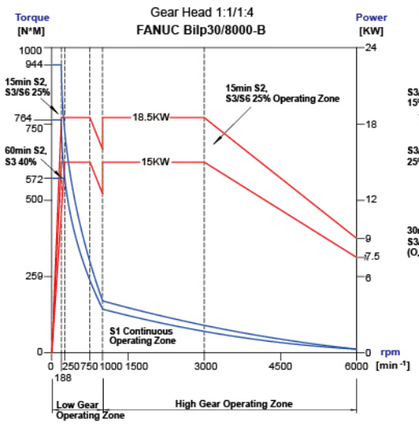
BT50 Belt type 8000rpm



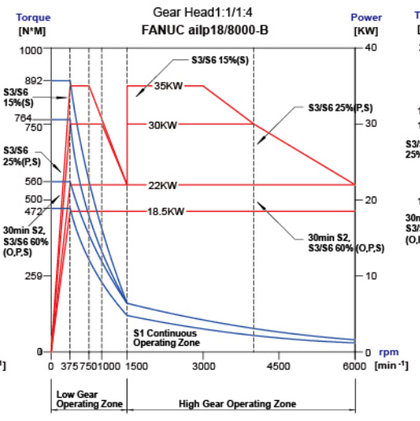
BT50 Belt type 8000rpm



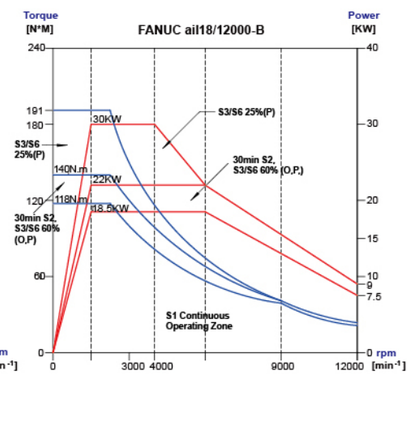
BT50 Gear head 6000rpm



BT50 Gear head 6000rpm



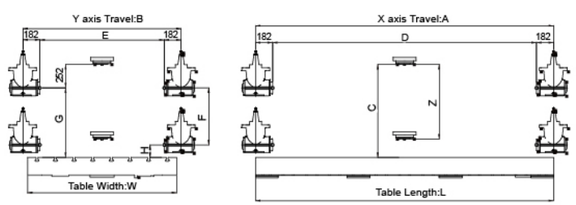
BT50 Direct type 10000rpm



Optional Attached Milling Head

90° manual angular milling head

90° manual angular milling head	
Tool clamping	Manual
Head clamping	Manual
Indexing	Manual 1°, 0~360°
Max. Power	38 kw
Max. Speed	2000rpm

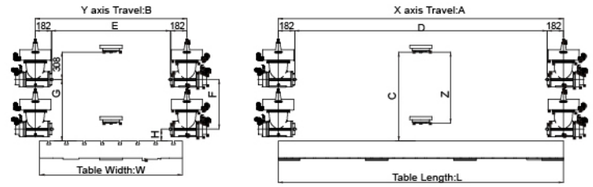


Unit : mm

Model	A	B	C	D	E	F	G	Z	W	L	H
DMC-1722	2200	1700	1000	1840	1340	610	750	800	1400	2200	135
DMC-1732	3200	1700	1000	2840	1340	610	750	800	1400	3200	135
DMC-2132	3200	2100	1200	2840	1740	810	950	1000	1800	3200	135
DMC-2142	4200	2100	1200	3840	1740	810	950	1000	1800	4200	135

Semi-automatic indexing 90° milling head machining range

Semi-automatic indexing 90° milling head	
Tool clamping	Auto
Head clamping	Manual
Indexing	Auto 5°, 180°
Max. Power	38 kw
Max. Speed	2000rpm



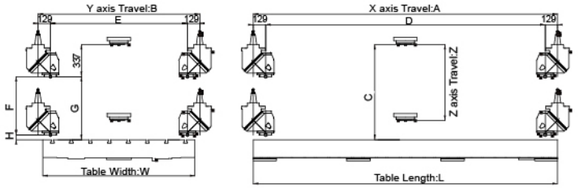
Unit : mm

Model	A	B	C	D	E	F	G	Z	W	L	H
DMC-1722	2200	1700	1000	1840	1340	560	690	800	1400	2200	135
DMC-1732	3200	1700	1000	2840	1340	560	690	800	1400	3200	135
DMC-2132	3200	2100	1200	2840	1740	760	890	1000	1800	3200	135
DMC-2142	4200	2100	1200	3840	1740	760	890	1000	1800	4200	135

Universal milling head

Universal milling head	
Tool clamping	Manual
Head clamping	Manual
Indexing	Manual 1°
Max. Power	38 kw
Max. Speed	1200rpm

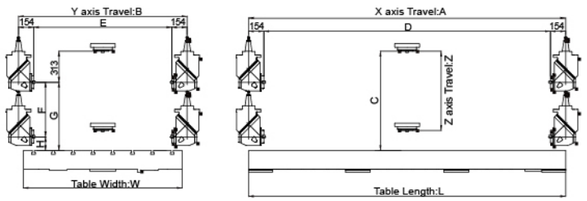
Universal milling head (0°)machining range



Unit : mm

Model	A	B	C	D	E	F	G	Z	W	L	H
DMC-1722	2200	1700	1000	1940	1440	610	660	800	1400	2200	50
DMC-1732	3200	1700	1000	2940	1440	610	660	800	1400	3200	50
DMC-2132	3200	2100	1200	2940	1840	810	860	1000	1800	3200	50
DMC-2142	4200	2100	1200	3940	1840	810	860	1000	1800	4200	50

Universal milling head (90°)machining range



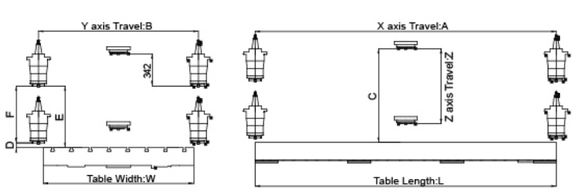
Unit : mm

Model	A	B	C	D	E	F	G	Z	W	L	H
DMC-1722	2200	1700	1000	1890	1390	550	690	800	1400	2200	138
DMC-1732	3200	1700	1000	2890	1390	550	690	800	1400	3200	138
DMC-2132	3200	2100	1200	2890	1790	750	890	1000	1800	3200	138
DMC-2142	4200	2100	1200	3890	1790	750	890	1000	1800	4200	138

Extension manual head

Extension manual head 300&500MM	
Tool clamping	Manual
Head clamping	Manual
Max. Power	38 kw
Max. Speed	2000rpm

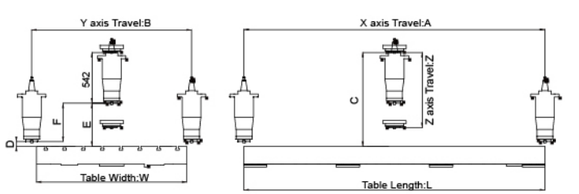
Extension manual head 300MM machining range



Unit : mm

Model	A	B	C	D	E	F	Z	W	L
DMC-1722	2200	1700	1000	50	660	610	800	1400	2200
DMC-1732	3200	1700	1000	50	660	610	800	1400	3200
DMC-2132	3200	2100	1200	50	860	810	1000	1800	3200
DMC-2142	4200	2100	1200	50	860	810	1000	1800	4200

Extension manual head 500MM machining range



Unit : mm

Model	A	B	C	D	E	F	Z	W	L
DMC-1722	2200	1700	1000	50	460	410	800	1400	2200
DMC-1732	3200	1700	1000	50	460	410	800	1400	3200
DMC-2132	3200	2100	1200	50	660	610	1000	1800	3200
DMC-2142	4200	2100	1200	50	660	610	1000	1800	4200

DMC Specification XYZ : LINEAR WAY

Models	DMC-1316		DMC-1520	
Travel				
X - Axis Travel	1600mm		2000mm	
Y - Axis Travel	1300mm		1500mm	
Z - Axis Travel	600mm		600mm	
Distance between column	1400mm		1520mm	
Working Area	1300X1600X800mm		1500X2000X800mm	
Spindle Nose To Table	200~800mm		200~800mm	
Table				
Table Size	1700mmx1200mm		2100mmx1200mm	
T - Slot	18mmx150mmx7T		18mmx150mmx7T	
Maximum Table Load	3000 kg		4000 kg	
Spindle				
Spindle taper-D mm	BT40-150	BT50-155	BT40-150	BT50-155
Type Of Driving	Direct type	Belt type	Direct type	Belt type
Spindle speed	12000 rpm	6000 rpm	12000 rpm	6000 rpm
Feed Rate				
Rapid Feed Rate (X.Y.Z)axis	X:15 Y:18 Z:18 (m/min)		X:15 Y:18 Z:18 (m/min)	
Cutting feedrate	7000(mm/min)		7000(mm/min)	
Type Of Driving				
X Axis Type Of Driving	Direct type drive		Direct type drive	
Y Axis Type Of Driving	Direct type drive		Direct type drive	
Z Axis Type Of Driving	Direct type drive		Direct type drive	
Automatic tool changer				
Max.tool length	300mm	350mm	300mm	350mm
Max.tool weight	8kg	15kg	8kg	15kg
Max.tool dia.-(Full tools)	Ø78mm	Ø110mm	Ø78mm	Ø110mm
Max.tool dia.-(W/O Adjacent tool)	Ø150mm	Ø200mm	Ø150mm	Ø200mm
Motors	0iMF-β	0iMF-β	0iMF-β	0iMF-β
Spindle Motor (Rated/Max)	11/18.5kW(52.5Nm)	15/18.5kW(143Nm)	11/18.5kW(52.5Nm)	15/18.5kW(143Nm)
X Axis Servo Motor	3kW(27Nm)	3kW(27Nm)	3kW(27Nm)	3kW(27Nm)
Y Axis Servo Motor	3kW(27Nm)	3kW(27Nm)	3kW(27Nm)	3kW(27Nm)
Z Axis Servo Motor	3kW BS(27Nm)	3kW BS(27Nm)	3kW BS(27Nm)	3kW BS(27Nm)
Cutting fluid Capacity(motor)	300L(1000W)	300L(1000W)	300L(1000W)	300L(1000W)
Machine Accuracy				
Positioning Accuracy (JIS)	±0.005/300mm		±0.005/300mm	
Repeat Poitioning Accuracy (JIS)	±0.003mm		±0.003mm	
Others				
Pneumatic supply	≧ 6.5Kg/cm²		≧ 6.5Kg/cm²	
Floor Space Measurement	4450X4050X3650mm		5360X4050X3650mm	
Machine weight (approximate)	15000KG		17000KG	

•SPECIFICATIONS SUBJECT TO CHANGED WITHOUT PRIOR NOTICE. THANKS!

Standard Features

- Fanuc 0i-MF Controller 10.4" LCD
- Leveling screws with blocks
- Tool box
- Air blast through spindle
- Work lamp
- Unclamping pedal
- Three color light
- Auto power off
- Auto lubrication system
- Rigid tapping
- CF card interface
- Remote manual pulse generator
- Spindle coolant system
- Heat exchanger for control cabinet
- Pressurec System (not included pressure source and tube)
- High pressure water & air gun
- Chain type chip conveyor
- Screw type chip conveyor
- System operation and procedures manual
- Machine operation manual

Optional Features

- 90°angular milling head (Manual)
- BT-40 Arm type ATC (24/30T)
- BT-40 Chain type ATC (40T/60T）
- Column raised: 200mm / 400mm
- Tool length measurement system
- Coolant through spindle(24Bar/50Bar)
- Disk type oil-water speartor
- Auto door
- X/Y/Z Optical scale
- Workpiece measurement system
- Full splash guard
- CE standard
- AICC2 (Preview blocks max. 200)
- DATA SERVER memory capacity 1G
- Oil Hole Holder Function
- Air conditioner

DMC Specifications XYZ : LINEAR WAY

Models	DMC-1722	DMC-1732	DMC-2132	DMC-2142
Travel				
X - Axis Travel	2200mm	3200mm	3200mm	4200mm
Y - Axis Travel	1700mm	1700mm	2100mm	2100mm
Z - Axis Travel	1000mm	1000mm	1000mm	1000mm
Distance between column	1700mm	1700mm	2100mm	2100mm
Spindle Nose To Table	200-1200mm	200-1200mm	200~1200mm	200~1200mm
Table				
Table Size	2200mmx1400mm	3200mm X 1400mm	3200mm X 1800mm	4200mm X 1800mm
T - Slot	22X200mmX6T (22X120mm*2 on side)	22X200mmX6T (22X120mm*2 on side)	22X200mmX8T (22X120mm*2 on side)	22X200mmX8T (22X120mm*2 on side)
Maximum Table Load	8000 kg	10000 kg	12000 kg	15000 kg
Spindle				
Spindle taper-D mm	BT50-190	BT50-190	BT50-190	BT50-190
Type Of Driving	Belt Type	Belt Type	Belt Type	Belt Type
Spindle speed	6000 rpm	6000 rpm	6000 rpm	6000 rpm
Feed Rate				
Rapid Feed Rate (X.Y.Z)	X:20 Y:20 Z:15 (m/min)	X:20 Y:20 Z:15 (m/min)	X:20 Y:20 Z:15 (m/min)	X:20 Y:20 Z:15 (m/min)
Cutting feedrate	7000(mm/min)	7000(mm/min)	7000(mm/min)	7000(mm/min)
Type Of Driving				
X Axis Type Of Driving	Belt decelerate (1 : 2)	Belt decelerate (1 : 2)	Belt decelerate (1 : 2)	Belt decelerate (1 : 2)
Y Axis Type Of Driving	Direct type drive	Direct type drive	Direct type drive	Direct type drive
Z Axis Type Of Driving	Direct type drive	Direct type drive	Direct type drive	Direct type drive
Automatic tool changer				
Max.tool length	350mm	350mm	350mm	350mm
Max.tool weight	15kg	15kg	15kg	15kg
Max.tool dia.-(Full tools)	Ø110mm	Ø110mm	Ø110mm	Ø110mm
Max.tool dia.-(W/O Adjacent tool)	Ø200mm	Ø200mm	Ø200mm	Ø200mm
Motors	0iMF-β / 0iMF-α	0iMF-β / 0iMF-α	0iMF-β / 0iMF-α	0iMF-β / 0iMF-α
Spindle Motor (Rated/Max)	15/18.5kW(143Nm) / 18.5/22kW(118Nm)	15/18.5kW(143Nm) / 18.5/22kW(118Nm)	15/18.5kW(143Nm) / 18.5/22kW(118Nm)	15/18.5kW(143Nm) / 18.5/22kW(118Nm)
X Axis Servo Motor	3kW(36Nm) / 7kW(30Nm)	3kW(36Nm) / 7kW(30Nm)	3kW(36Nm) / 7kW(30Nm)	3kW(36Nm) / 7kW(30Nm)
Y Axis Servo Motor	3kW(36Nm) / 7kW(30Nm)	3kW(36Nm) / 7kW(30Nm)	3kW(36Nm) / 7kW(30Nm)	3kW(36Nm) / 7kW(30Nm)
Z Axis Servo Motor	3kW(36Nm) BS / 7kW(30Nm)BS	3kW(36Nm)BS / 7kW(30Nm)BS	3kW(36Nm)BS / 7kW(30Nm)BS	3kW(36Nm)BS / 7kW(30Nm)BS
Cutting fluid Capacity(motor)	300L(1000W)	300L(1000W)	300L(1000W)	300L(1000W)
Hydraulic tank Capacity(motor)	160L(7.5kW)	160L(7.5kW)	160L(7.5kW)	160L(7.5kW)
Machine Accuracy				
Positioning Accuracy (JIS)	±0.005/300 ; ±0.015/Full travel	±0.005/300 ; ±0.015/Full travel	±0.005/300 ; ±0.015/Full travel	±0.005/300 ; ±0.015/Full travel
Repeat Poitioning Accuracy (JIS)	±0.003mm	±0.003mm	±0.003mm	±0.003mm
Others				
Pneumatic supply	≧ 6.5Kg/cm²	≧ 6.5Kg/cm²	≧ 6.5Kg/cm²	≧ 6.5Kg/cm²
Floor Space Measurement	6000X5600X4890mm	8000X5600X4890mm	8230X6010X4900mm	10230X6010X4900mm
Machine weight (approximate)	22000KG	26000KG	32000KG	35000KG

Standard Features

- Fanuc 0i-MF Controller 10.4" LCD
- Leveling screws with blocks
- Tool box
- Air blast through spindle
- Work lamp
- Unclamping pedal
- Three color light
- Auto power off
- Auto lubrication system
- Rigid tapping
- CF card interface
- MPG
- Spindle coolant system
- Heat exchanger for control cabinet
- Pressure System (not included pressuresource and tube)
- High pressure water & air gun
- Chain type chip conveyor
- Screw type chip conveyor
- System operation and procedures manual
- Machine operation manual

Optional Features

- 90° angular milling head (Manual) / (Semi-automatic)
- BT-50 Arm type ATC (24/30T)
- BT-50 Chain type ATC (40/60T)
- Column raised: 200mm / 400mm
- Tool length measurement system
- Coolant through spindle (24Bar/50Bar)
- Disk type oil-water speartor
- Auto door
- X/Y/Z Optical scale
- Workpiece measurement system
- Full splash guard
- CE standard
- AICC2 (Preview blocks max. 200)
- Data Server memory capacity 1G
- Oil Hole Holder Function
- Air conditioner

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DMCB Specifications

Models	DMCB-2730 / 2740 / 2750 / 2760	DMCB-3260	DMCB-3280
Travel			
X - Axis Travel	3000 / 4000 / 5000 / 6000mm	6000mm	8000mm
Y - Axis Travel	2700mm	3200mm	3200mm
Z - Axis Travel	1000mm	1250mm	1250mm
Distance between column	2700mm	3200mm	3200mm
Spindle Nose To Table	280-1280mm	350~1600mm	350~1600mm
Table			
Table Size	2300mm x 3000 / 4000 / 5000 / 6000mm	2500mm X 6000mm	2500mm X 8000mm
T - Slot	28mmx200mmx11T	28mm X 200mm X 11T	28mm X 200mm X 11T
Maximum Table Load	10000 / 12000 / 15000 / 18000 kg	25000 kg	30000 kg
Spindle			
Spindle taper-D mm	BT50-200	BT50-200	BT50-200
Type Of Driving	Belt Type	Belt Type	Belt Type
Spindle speed	6000 rpm	6000 rpm	6000 rpm
Feed Rate			
Rapid Feed Rate (X.Y.Z)	X:10 Y:10 Z:10 （m/min）	X:10 Y:10 Z:10（m/min）	X:10 Y:10 Z:10 （m/min）
Cutting feedrate	6000（mm/min）	6000（mm/min）	6000（mm/min）
Type Of Driving			
X Axis Type Of Driving	Rack Gear Transmission (4:1)	Rack Gear Transmission (7:1)	Rack Gear Transmission (3:1)+ Belt drive (2.5:1)
Y Axis Type Of Driving	Rack Gear Transmission (3:1)	Rack Gear Transmission (4:1)	Rack Gear Transmission (4:1)
Z Axis Type Of Driving	Direct type drive	Rack Gear Transmission (3:1)	Rack Gear Transmission (3:1)
Automatic tool changer			
Max.tool length	350mm	350mm	350mm
Max.tool weight	15kg	15kg	15kg
Max.tool dia.-(Full tools)	Ø110mm	Ø110mm	Ø110mm
Max.tool dia.-(W/O Adjacent tool)	Ø200mm	Ø200mm	Ø200mm
Motors	0iMF-α	0iMF-α	0iMF-α
Spindle Motor (Rated/Max)	15/18.5kW	18.5/22kW(307Nm)	18.5/22kW(307Nm)
X Axis Servo Motor	9kW (53Nm)	9kW (53Nm)	9kW (53Nm)
Y Axis Servo Motor	6kW (38Nm)	6kW (38Nm)	6kW (38Nm)
Z Axis Servo Motor	7kW (30Nm)BS	6kW (38Nm)BS	6kW (38Nm)BS
Cutting fluid Capacity(motor)	300L(1000W)	300L(1000W)	300L(1000W)
Hydraulic tank Capacity(motor)	160L(7.5kW)	160L(7.5kW)	160L(7.5kW)
Machine Accuracy			
Positioning Accuracy (JIS)	±0.005/300；±0.015/Full travel	±0.005/300；±0.015/Full travel	±0.005/300；±0.015/Full travel
Repeat Poitioning Accuracy (JIS)	±0.003mm	±0.003mm	±0.003mm
Others			
Pneumatic supply	≧ 6.5Kg/cm²	≧ 6.5Kg/cm²	≧ 6.5Kg/cm²
Floor Space Measurement	8400 / 10400 / 12400 / 14400X5500X4800mm	14400X6000X5300mm	16400X6000X5300mm
Machine weight (approximate)	36000 / 43000 / 48000 / 55000 KGS	82000KG	98000KG

Standard Features

- Fanuc 0i-MF Plus Controller 10.4" LCD
- Leveling screws with blocks
- Tool box
- Air blast through spindle
- Work lamp
- Unclamping pedal
- Three color light
- Auto power off
- Auto lubrication system
- Rigid tapping
- CF card interface
- MPG
- Spindle coolant system
- Heat exchanger for control cabinet
- Pressure system(not included air pressure source and tube)
- High pressure water & air gun
- Chain type chip conveyor
- Screw type chip conveyor
- System operation and procedures manual
- Machine operation manual

Optional Features

- 90° angular milling head (Manual) / (Semi-automatic) / (Automatic)
- BT-50 Arm type ATC(24/30T)
- BT-50 Chain type ATC(40/60T)
- Column raised: 200mm / 400mm
- Tool length measurement system
- Coolant through spindle (24Bar/ 50Bar)
- Disk type oil-water speartor
- Auto door
- X/Y/Z Optical scale
- Workpiece measurement system
- Full splash guard
- CE standard
- AICC2 (Preview blocks max. 200)
- DATA SERVER memory capacity 1G
- Oil Hole Holder Function
- Air conditioner

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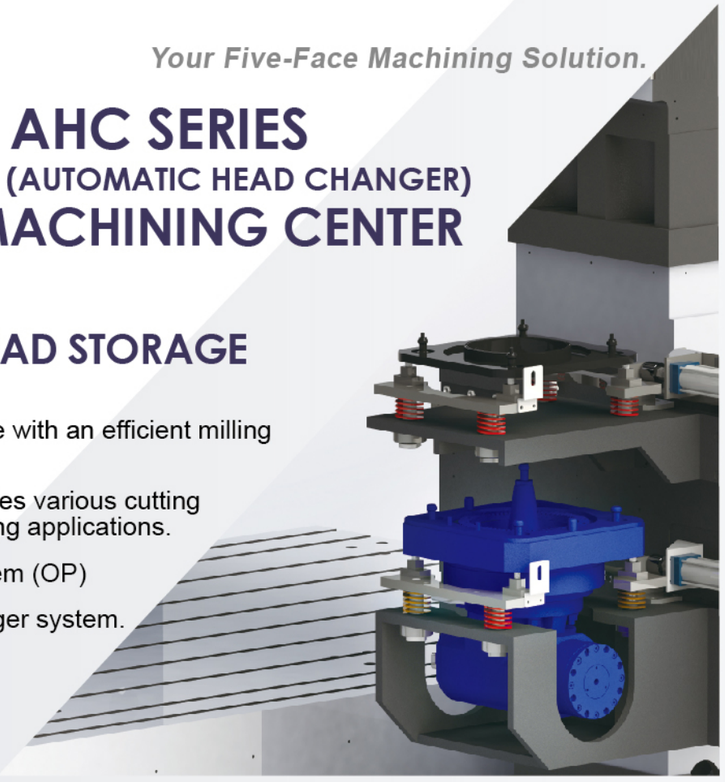
Your Five-Face Machining Solution.

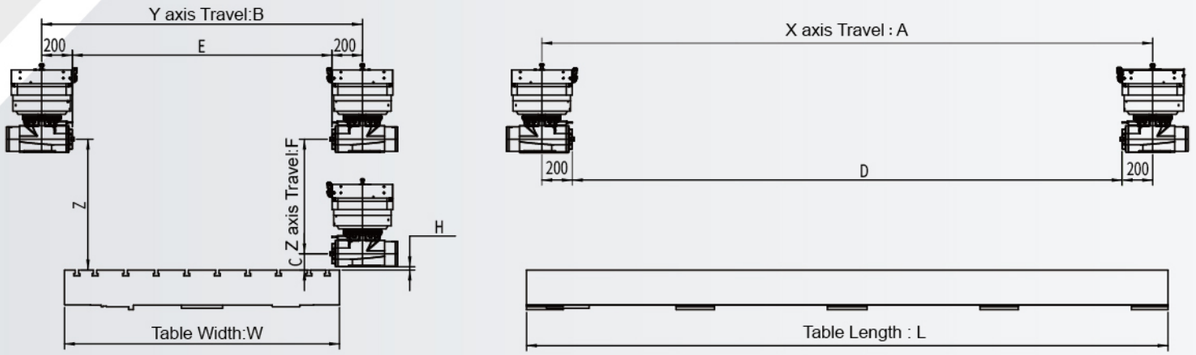
DMC(B)- AHC SERIES
(AUTOMATIC HEAD CHANGER)
5-FACE MACHINING CENTER



HIGH EFFICIENCY HEAD STORAGE

- Offers Dual-Compartment head storage with an efficient milling head change function.
- Optional Angular-Spindle design provides various cutting characteristics to fulfill diverse machining applications.
- Five-Sided coordinate conversion system (OP)
- Vertical/Horizontal automatic tool changer system.

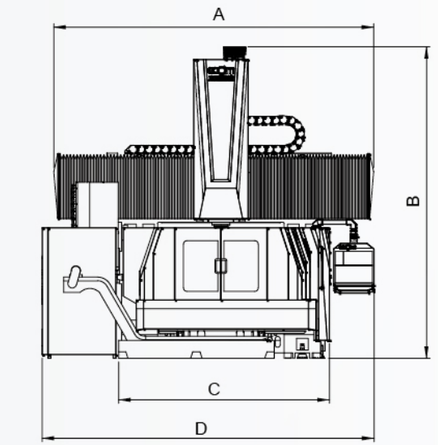
Machining Range

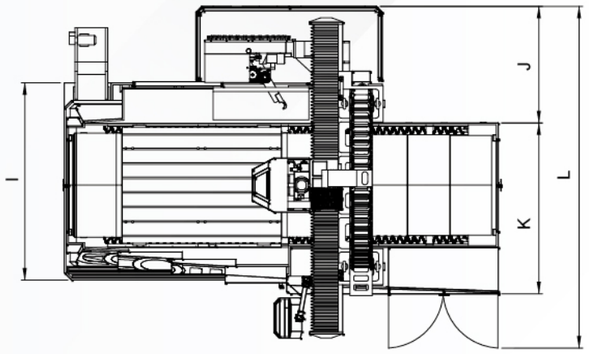


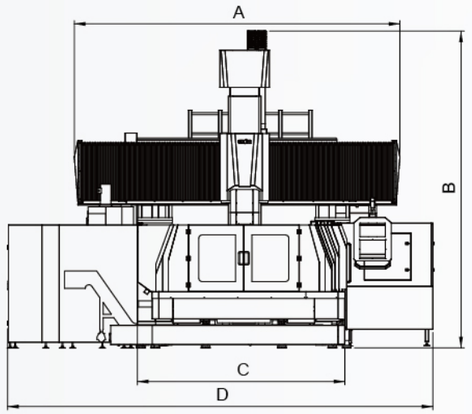
Unit：mm

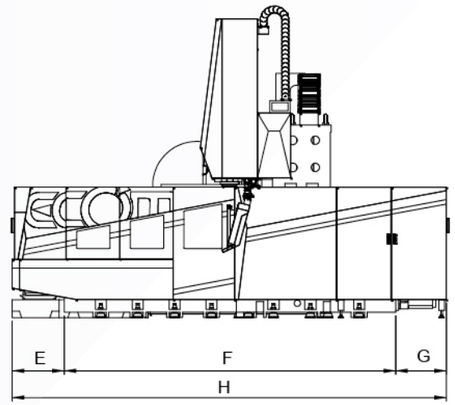
Model	A	B	C	D	E	F	Z	W	L	H
DMC-2132-AHC	3200	2100	106.5	2800	1700	750	856.5	1800	4200	21.5
DMC-2142-AHC	4200	2100	106.5	3800	1700	750	856.5	1800	3200	21.5

Machine Dimensions









DMC(B) with AHC system

Unit：mm

Model	A	B	C	D	E	F	G	H	I	J	K	L
DMC-1316	2630	3850	2940	4471	950	2980	520	4450	2110	1250	2300	4060
DMC-1520	2780	3850	2940	4620	750	3880	730	5360	2110	1250	2300	4060

Model	A	B	C	D	E	F	G	H	I	J	K	L
DMC-1722	4450	4350	2950	4600	750	4580	700	6030	2750	1690	2400	4850
DMC-1732	4450	4350	2950	4600	750	6580	700	8030	2750	1690	2400	4850
DMC-2132	4850	5000	3350	5000	800	6580	750	8130	3150	2090	2800	5500
DMC-2142	4850	5000	3350	5000	800	8580	750	10130	3150	2090	2800	5500

Model	A	B	C	D	E	F	G	H	I	J	K	L
DMC-2132-AHC	4850	5450	3350	6360	800	6580	1220	8600	2885	2430	2200	5990
DMC-2142-AHC	4850	5450	3350	6360	800	8580	1220	10600	2885	2430	2200	5990