FullLand®

FullLand DMC-980-5XT		
ROTARY TABLE	Size	ø600mm (23.6″)
	Max. loading weight	500kg
TRAVEL	X-axis	630mm (24.8″)
	Y-axis	630mm (24.8″)
	Z-axis	480mm (18.8″)
	A-axis	+30°-120°
	C-axis	360°
	Distance between Columns	1000mm (39.3″)
	Table surface to spindle nose	120-600mm (4.7″-23.6″)
SPINDLE	Spindle taper	BT-40 HSK-A63(Opt)
	Spindle speed (Direct Drive)	12000rpm(Std) / 15000rpm(Opt)
	Spindle Motor / Kw	10/12.5 kW
	Spindle speed (Build in Type)	18000rpm(BT-40) / 30000rpm(BT-30)
	Spindle Motor / Kw	19.4kw / 8.2kw
FEEDRATE	Rapid traverse X/Y/Z	36/36/30 m/min
	Rapid traverse A/C	25/33 rpm
	Max. cutting feed	20 m/min
	Guide way	Linear guide way
ATC	Tool type	BT-40
	Magazine capacity	ARM-24T
	Max. tool length	250
	Max. tool diameter	75
	Max. tool weight	6
DIMENSION	Width x Depth	3520x3420 mm (138.5″ x 134.6″)
	Machine height	3300mm (129.9″)
	Machine weight	9000kg / 10800 lbs

FullLand®
GEON CHENG TECHNOLOGY CO., LTD.
P.O.BOX 246 FENG YUAN TAICHUNG,TAIWAN
No.18, Ln. 131, Minsheng St., Tanzi Dist., Taichung City 427, Taiwan
TEL:886-4-25392866 FAX:886-4-25392668
E-mail Address:geontech@hibox.hinet.net
www.geontech.com.tw

2014.09

FullLand®

Feature 4H+1R

- High Precision
- High Rigidity
- High Performance
- High Speed
- Reliable

DMC series

HIGH SPEED-HIGH PRECISION

Double Column Milling and Machining Center

Awarded as A Proof of Excellence In Technical

Taiwan Machine Tools Industry Award 2007 For Excellence in Research and Innovation
NC Lathe SECOND PRIZE

TEN MOST EXCELLENT INVENTER IN TAIWAN

Taiwan Machine Tools Industry Award 2007 For Excellence in Research and Innovation
Machining Center FIRST PRIZE

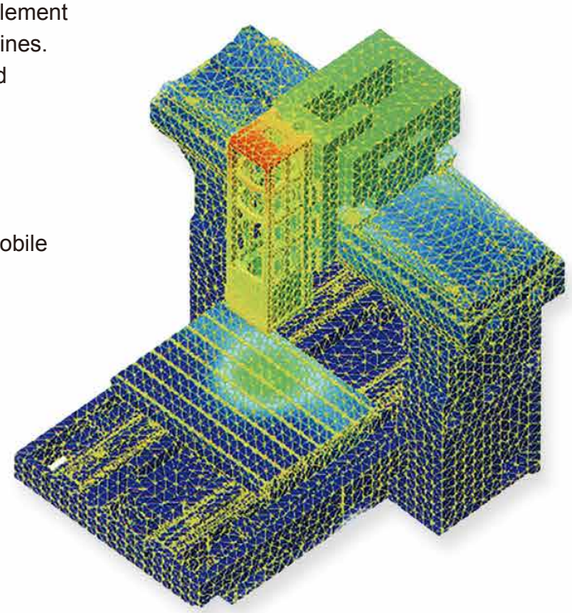
GOLD HAND AWARD

NATIONAL TECHNOLOGY INNOVATION AWARD

Mold making Car industry / 3C industry / Mechanical equipment / Aerospace industry

Optimum structure of **GEOTECH DMC-SERIES** is designed by an excellent and experienced team of engineers. Using Finite Element Scheme with ANSYS SOFTWARE to ensure rigidity of machines. After the completion of assembling of whole machine, related geometric and kinematics tests are via precise instruments performed.

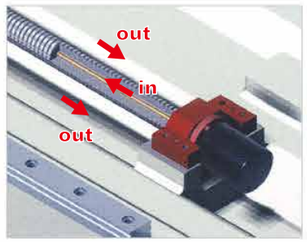
DMC-SERIES suit for 3-C products
(Consumer Electronics, Communications and Computers)
as well as complicated parts and moulds for injection, automobile and aerospace industries.



Patent approved by Germany, Taiwan, China.

- **GERMANY PATENT NO.**
  1. 20 2004 017 403.0
  2. 20 2004 019 862.2
  3. 20 2004 019 861.4
- **CHINA PATENT NO.**
  1. 676573
- **JAPAN PATENT NO.**
  1. 3108878
- **TAIWAN PATENT NO.**
  1. M255100
  2. M255096
  3. M257251
  4. M281740
  5. M281742
  6. M284464
  7. M284474
  8. M284473
  9. M290444
  10. M294382
  11. M294988
  12. M296091
  13. M297805

Work Pieces



Ball Screw Cooling System

Schematic drawing of internal cooling hollow ball screw

There is cooling provided throughout the DMC series including:

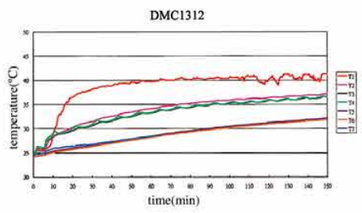
Oil cooled guide ways, ball screws, spindle, spindle motor and bridge. Additionally there is a thermal compensation system which automatically adjusts the machine to compensate for thermal deviations which could affect cutting accuracy. (Standard for travel under 4M)

Accuracy & Rigidity Test

- **Axis Traverse Acceleration Test**
- **Modal Test**
- **Spindle Rotation Vibration Test**
- **Spindle Radial and Axial Error Motion Test**
- **Spindle Thermal Stability Test**
- **Thermal Drift Testing of Feeding Mechanisms**

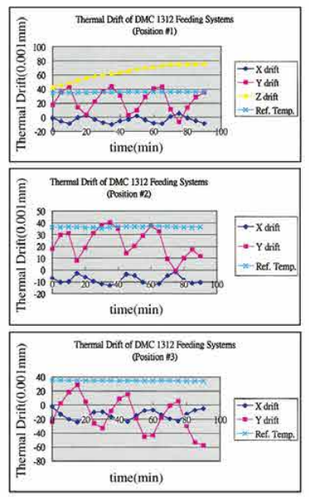
1

Spindle Thermal Stability Test

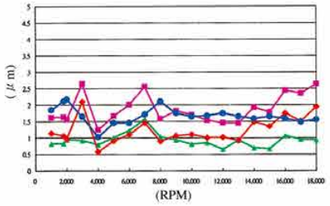


The temperature change result after 2.5 hours running.

2 Thermal Drift Testing of Feeding Mechanisms

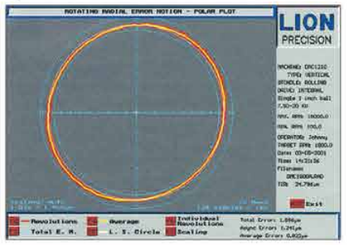


3 Spindle Radial and Axial Error Motion Test

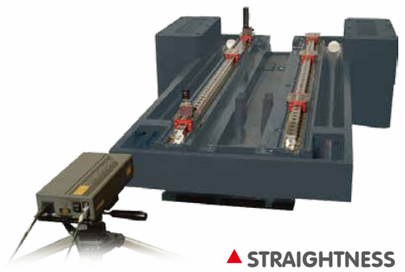


DMC1312 Testing Result of Spindle Radial and Axial Error Motion Under Various Speed.

4 Spindle Radial and Axial Error Motion Test

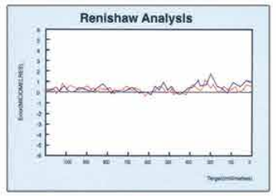


High Accuracy Inspection ensure the life of machine

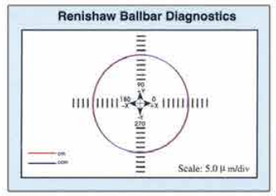


▲ STRAIGHTNESS

100% pitch error inspected by laser unit.



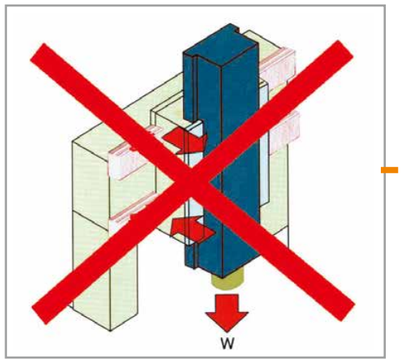
100% dynamic traverse inspected.

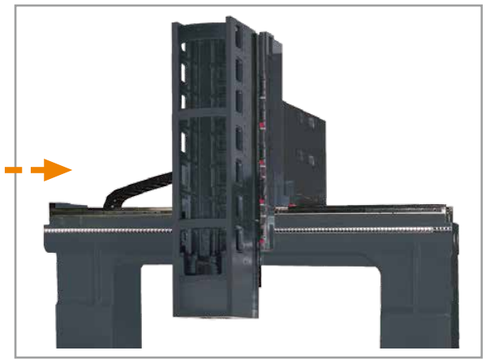


Reference Standards: VD13441	Positioning Accuracy 0.004 / 300mm	Repeatability ±0.002mm

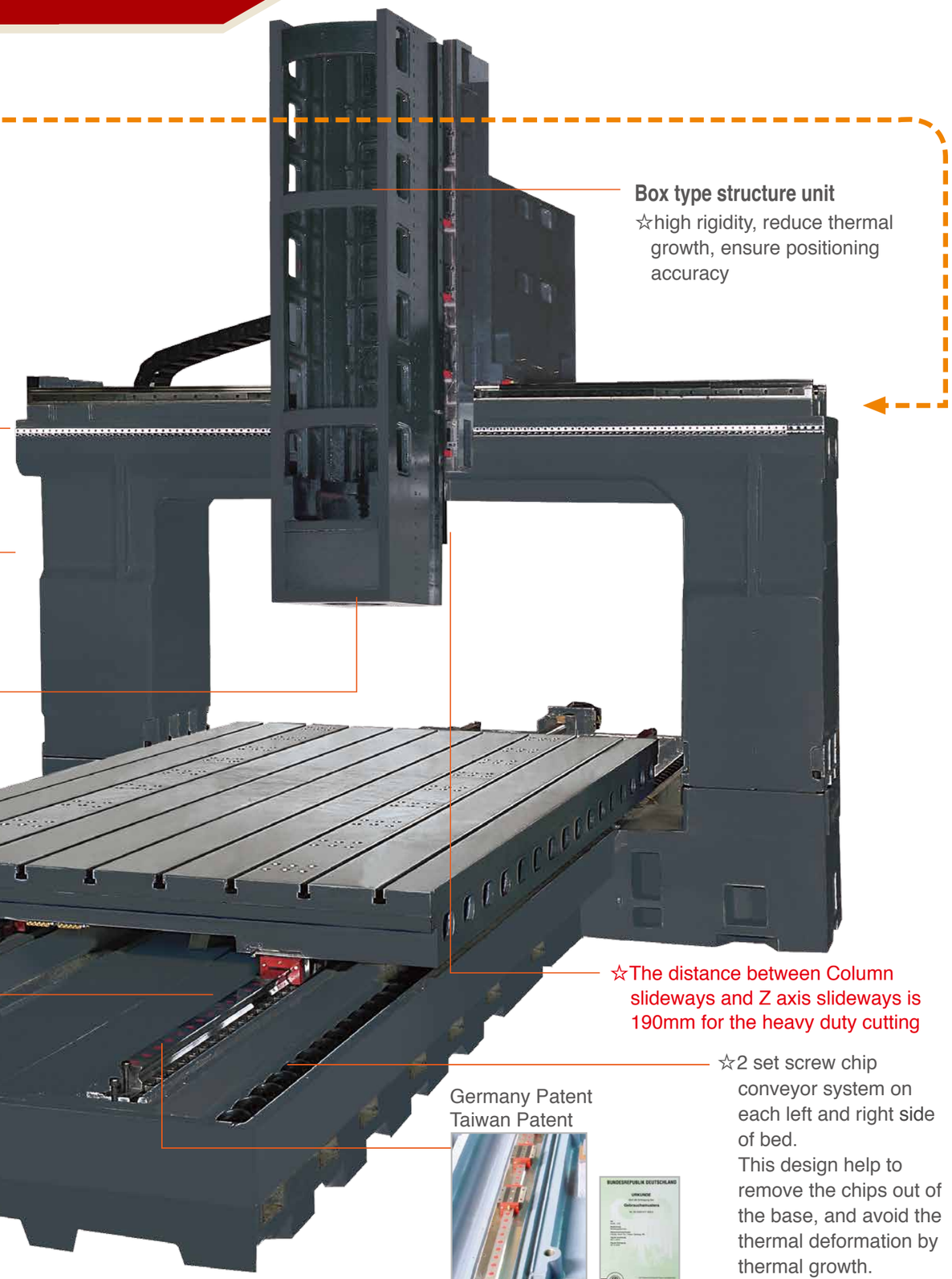
THE ABOVE ARE DATA WITHOUT LINEAR SCALE WHEN TESTING IN A NORMAL ROOM TEMPERATURE.

The Evolution Of Column, Head and Saddle





Y Axis slideway mounted on the top of cross rail to shorten the distance from spindle head to Y axis slideway.



Box type structure unit
☆high rigidity, reduce thermal growth, ensure positioning accuracy

Taiwan's First Origin by GEON CHENG
☆Saddle supported by 3 pieces of roller linear guides.
This design allows an increase of 25% in cutting capacity.



1.Germany Patent
2.China Patent
3.Taiwan Patent
4.Japan Patent

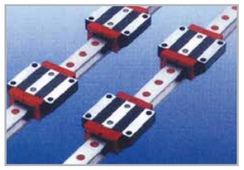
Door width more than 1800mm(standard),Unique one-piece casting column
☆Double ribs disign.

☆Cutting Capacity:
S45C, 25cm³ / KW/ min. up

Hydraulic Balance

The Head on this machine features an adjustable hydraulic balance device to allow easy Z-axis movement and rapid positioning to ensure perfect conditions for highly accurate operations.

Roller Guide or Same rank



☆The distance between Column slideways and Z axis slideways is 190mm for the heavy duty cutting

☆2 set screw chip conveyor system on each left and right side of bed.
This design help to remove the chips out of the base, and avoid the thermal deformation by thermal growth.

Germany Patent
Taiwan Patent

Pollution Proof Cap

DMC -980

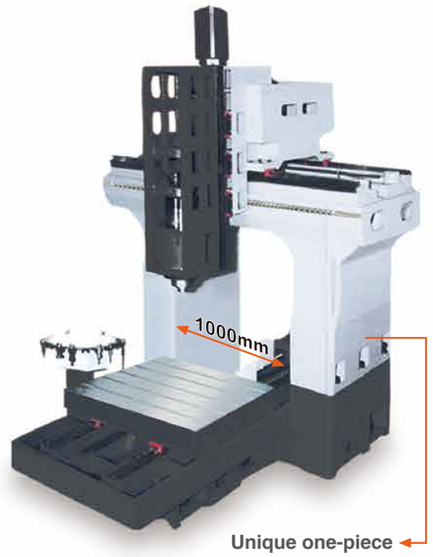
- X-axis: 900mm
- Y-axis: 800mm
- Z-axis: (op)700mm
- Distance between columns: 1000mm
- Spindle speed: 10000rpm~30000rpm

DMC -9120

- X-axis: 1200mm
- Y-axis: 900mm
- Z-axis: (op)700mm
- Distance between columns: 1000mm

DMC -9160

- X-axis: 1600mm
- Y-axis: 900mm
- Z-axis: (op)700mm
- Distance between columns: 1000mm

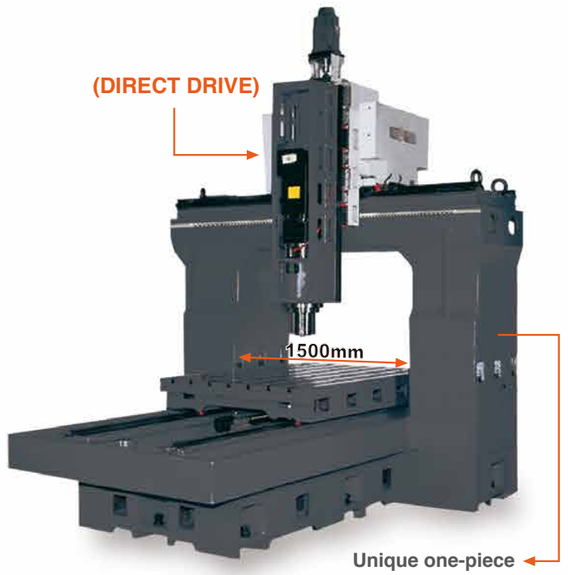


Unique one-piece casting column
☆Double ribs disign.

DMC-9120 Rigid body

DMC -2015

- X-axis: 2000mm
- Y-axis: 1350mm
- Z-axis: 700mm / (op) 900mm
- Distance between columns: 1500mm



Unique one-piece casting column
☆Double ribs disign.

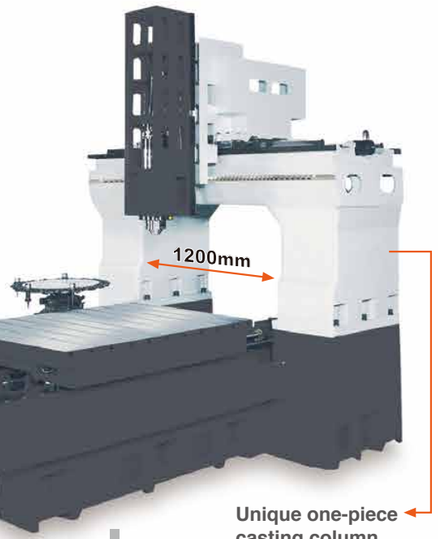
DMC-2015 Rigid body

DMC -2212

- X-axis: 2200mm
- Y-axis: 1100mm
- Z-axis: 700mm
- Distance between columns: 1200mm

DMC -3212

- X-axis: 3200mm
- Y-axis: 1100mm
- Z-axis: 700mm
- Distance between columns: 1200mm



Unique one-piece casting column
☆Double ribs disign.

DMC-2212 Rigid body

DMC -3018

- X-axis: 3000mm
- Y-axis: 1700mm
- Z-axis: 700mm / (op) 900mm
- Distance between columns: 1800mm

Unique one-piece casting column
☆Double ribs disign.

DMC-3018 Rigid body

DMC -2518

- X-axis: 2500mm
- Y-axis: 1700mm
- Z-axis: 900mm
- Distance between columns: 1800mm

DMC -4018

- X-axis: 4000mm
- Y-axis: 1700mm
- Z-axis: 900mm
- Distance between columns: 1800mm

DMC -5018

- X-axis: 5000mm
- Y-axis: 1700mm
- Z-axis: 900mm
- Distance between columns: 1800mm

DMC -3022

- X-axis: 3000mm
- Y-axis: 2100mm
- Z-axis: 1000mm / (op)1200mm
- Distance between columns: 2200mm

DMC -4022

- X-axis: 4000mm
- Y-axis: 2100mm
- Z-axis: 1000mm / (op)1200mm
- Distance between columns: 2200mm

DMC -5022

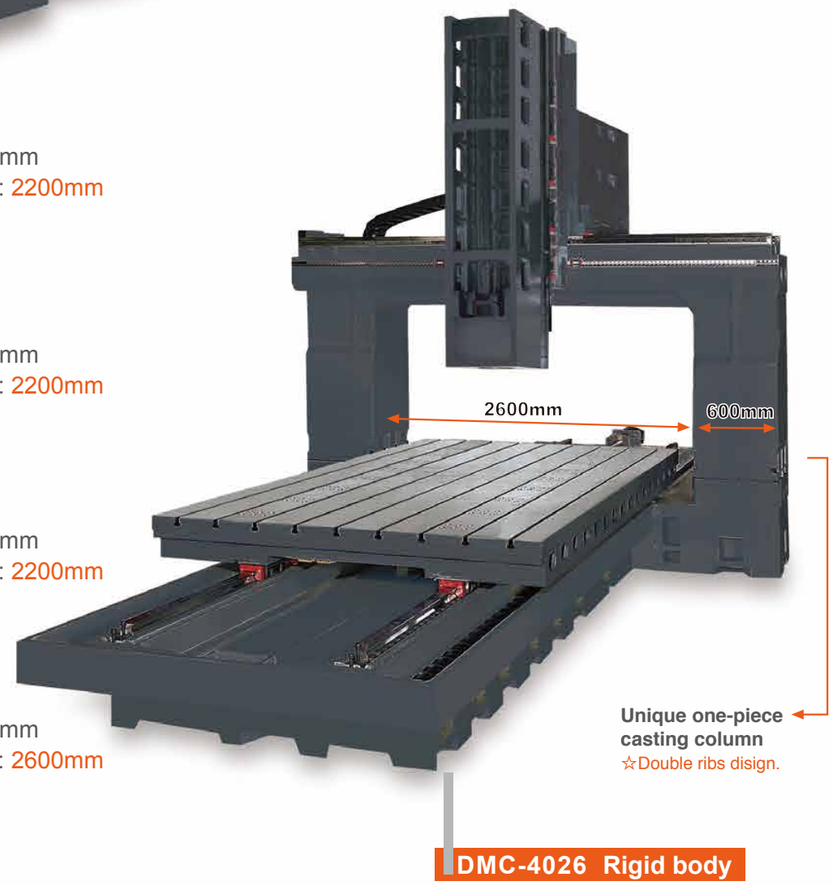
- X-axis: 5000mm
- Y-axis: 2100mm
- Z-axis: 1000mm / (op)1200mm
- Distance between columns: 2200mm

DMC -4026

- X-axis: 4000mm
- Y-axis: 2500mm
- Z-axis: 1000mm / (op)1200mm
- Distance between columns: 2600mm

DMC -5026

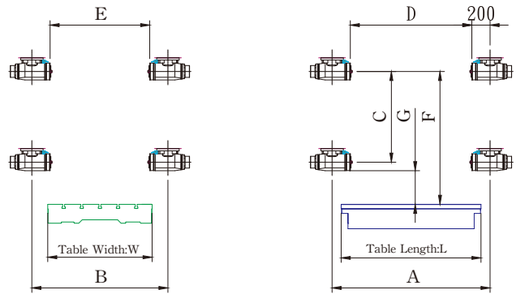
- X-axis: 5000mm
- Y-axis: 2500mm
- Z-axis: 1000mm / (op)1200mm
- Distance between columns: 2600mm



A55 Auto. Change 90° Angle Head

•Dvision Angle=5° •Max. Speed = 3500 rpm

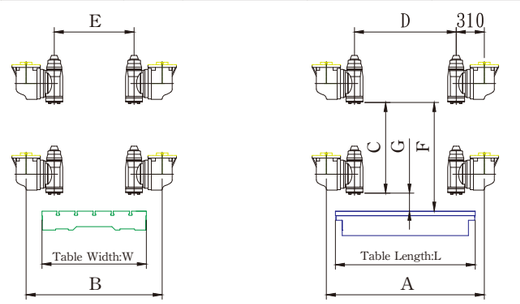
Distance Between Columus	Height of column	A	B	C	D	E	F	G
mm	mm	mm	mm	mm	mm	mm	mm	mm
1500	1330	X axis travel	Y axis travel	700	A - 400	B - 400	1120	330
1800	1430	X axis travel	Y axis travel	900	A - 400	B - 400	1220	230
2200	1530	X axis travel	Y axis travel	1000	A - 400	B - 400	1320	230
2600	1530	X axis travel	Y axis travel	1000	A - 400	B - 400	1320	230
3000	1530	X axis travel	Y axis travel	1000	A - 400	B - 400	1320	230



A58 Auto. Swiveling Head

•Dvision Angle=5°/5° •Max. Speed = 3500 rpm

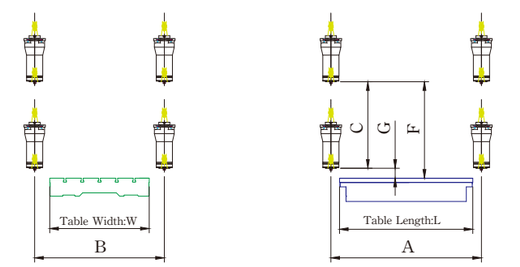
Distance Between Columus	Height of column	A	B	C	D	E	F	G
mm	mm	mm	mm	mm	mm	mm	mm	mm
1500	1330	X axis travel	Y axis travel	700	A - 620	B - 620	830	130
1800	1430	X axis travel	Y axis travel	900	A - 620	B - 620	930	30
2200	1530	X axis travel	Y axis travel	1000	A - 620	B - 620	1030	30
2600	1530	X axis travel	Y axis travel	1000	A - 620	B - 620	1030	30
3000	1530	X axis travel	Y axis travel	1000	A - 620	B - 620	1030	30



A62 Auto. Change Extend Milling Head

•Max. Speed = 3500 rpm

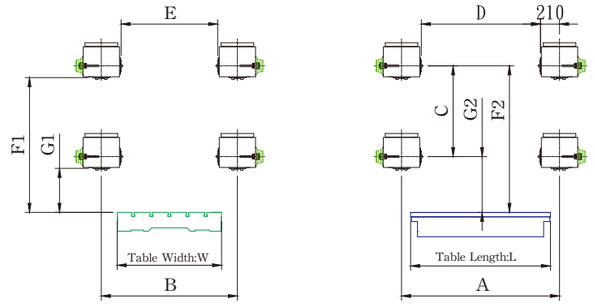
Distance Between Columus	Height of column	A	B	C	D	E	F	G
mm	mm	mm	mm	mm	mm	mm	mm	mm
1500	1330	X axis travel	Y axis travel	700	= A	= B	910	210
1800	1430	X axis travel	Y axis travel	900	= A	= B	1010	110
2200	1530	X axis travel	Y axis travel	1000	= A	= B	1110	110
2600	1530	X axis travel	Y axis travel	1000	= A	= B	1110	110
3000	1530	X axis travel	Y axis travel	1000	= A	= B	1110	110



F54 Five-Face Auto Milling Head

•Dvision Angle=5° •Max. Speed = 3500 rpm

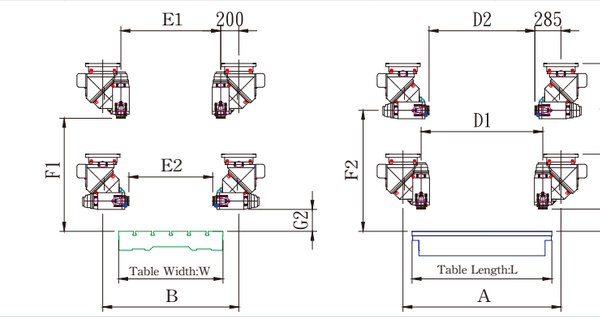
Distance Between Columus	Height of column	A	B	C	D	E	F	G
mm	mm	mm	mm	mm	mm	mm	mm	mm
1500	1330	X axis travel	Y axis travel	700	A - 420	B - 420	F1=1260, F2=1390	G1=560, G2=690
1800	1430	X axis travel	Y axis travel	900	A - 420	B - 420	F1=1360, F2=1490	G1=460, G2=590
2200	1530	X axis travel	Y axis travel	1000	A - 420	B - 420	F1=1460, F2=1590	G1=460, G2=590
2600	1530	X axis travel	Y axis travel	1000	A - 420	B - 420	F1=1460, F2=1590	G1=460, G2=590
3000	1530	X axis travel	Y axis travel	1000	A - 420	B - 420	F1=1460, F2=1590	G1=460, G2=590



F59 Vertical Horizontal Auto Head

•Dvision Angle=5°/5° •Max. Speed = 3500 rpm •A-axis Swiveling Angle = 0°~180° •C-axis Rotary Angle -90°~+270°

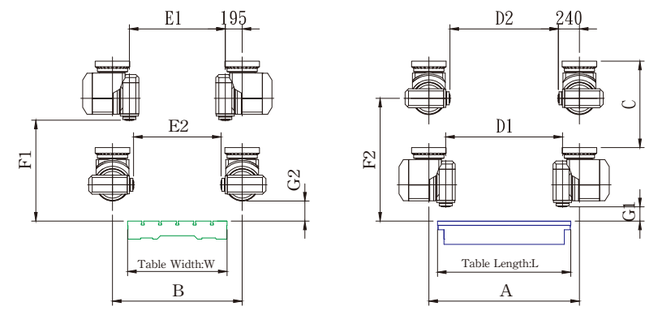
Distance Between Columus	Height of column	A	B	C	D	E	F	G
mm	mm	mm	mm	mm	mm	mm	mm	mm
1500	1330	X axis travel	Y axis travel	700	D1=A-400, D2=B-570	E1=B-400, E2=B-570	F1=1040, F2=1130	G1=340, G2=340
1800	1430	X axis travel	Y axis travel	900	D1=A-400, D2=B-570	E1=B-400, E2=B-570	F1=1140, F2=1230	G1=240, G2=240
2200	1530	X axis travel	Y axis travel	1000	D1=A-400, D2=B-570	E1=B-400, E2=B-570	F1=1240, F2=1330	G1=240, G2=240
2600	1530	X axis travel	Y axis travel	1000	D1=A-400, D2=B-570	E1=B-400, E2=B-570	F1=1240, F2=1330	G1=240, G2=240
3000	1530	X axis travel	Y axis travel	1000	D1=A-400, D2=B-570	E1=B-400, E2=B-570	F1=1240, F2=1330	G1=240, G2=240

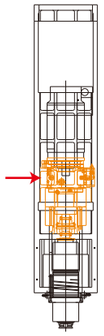


C67 Two-Axis Milling Head

•Precision Of Positionong = 10" / 10" •Max. Speed = 15000/18000 rpm •Precision Of Repeatability = ±3" / ±3"

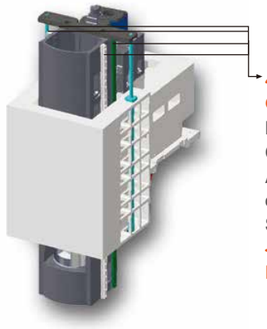
Distance Between Columus	Height of column	A	B	C	D	E	F	G
mm	mm	mm	mm	mm	mm	mm	mm	mm
1500	1330	X axis travel	Y axis travel	700	D1=A-390, D2=A-480	E1=B, E2=B	F1=960, F2=1220	G1=260, G2=330
1800	1430	X axis travel	Y axis travel	900	D1=A-390, D2=A-480	E1=B, E2=B	F1=1060, F2=1320	G1=160, G2=230
2200	1530	X axis travel	Y axis travel	1000	D1=A-390, D2=A-480	E1=B, E2=B	F1=1160, F2=1420	G1=160, G2=230
2600	1530	X axis travel	Y axis travel	1000	D1=A-390, D2=A-480	E1=B, E2=B	F1=1160, F2=1420	G1=160, G2=230
3000	1530	X axis travel	Y axis travel	1000	D1=A-390, D2=A-480	E1=B, E2=B	F1=1160, F2=1420	G1=160, G2=230





IMPROVED SPINDLE TRANSMISSION PATENT NO. M284464 (DIRECT DRIVE)

Spindle drive motor (Ct22i+ZF gear box)-1:4
560 NM →In low spindle speed 1500rpm
140 NM →In high spindle speed 8,000~10,000rpm

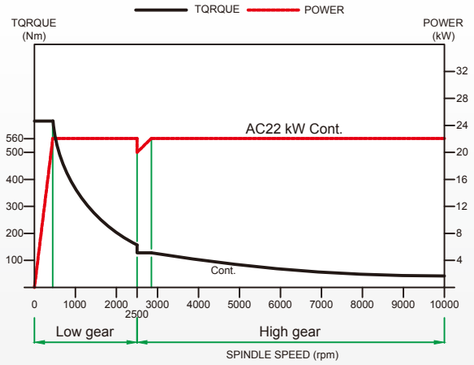


4 LINEAR ROLLER GUIDEWAYS

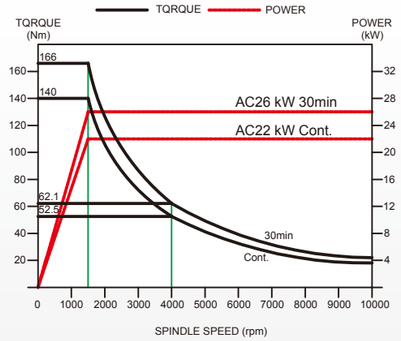
Mounting Four pieces of Linear Roller Guideways on Z axis so that the Radial & Axial strength is double and machining efficiency increased.
Surface finish
< 0.5umRa
PATENT NO. M281740

TORQUE POWER CHART

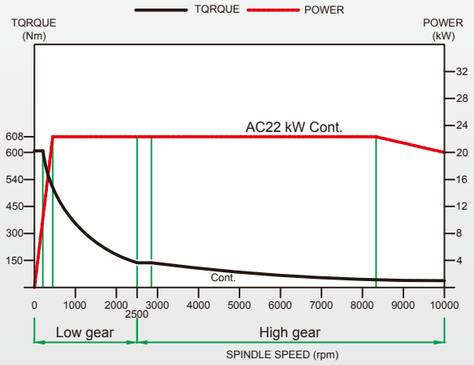
BT-50 GEAR 10000rpm(MITSUBISHI SJ-V26-01ZT-04)



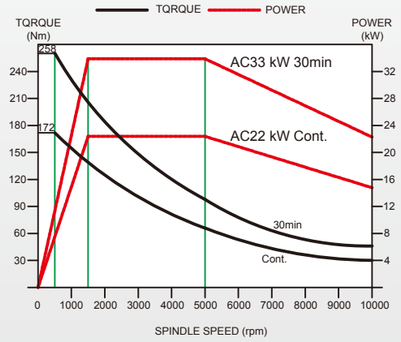
BT-50 10000rpm(MITSUBISHI SJ-VK30-21ZT)



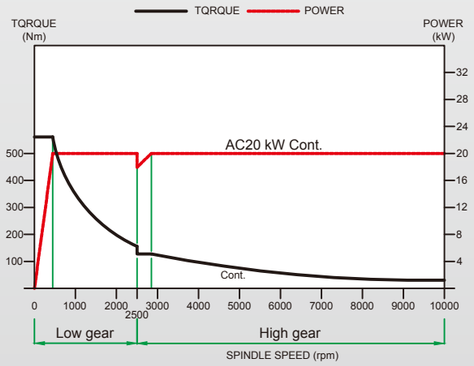
BT-50 GEAR 10000rpm(SIEMENS 1PH8137-□□ F □□)



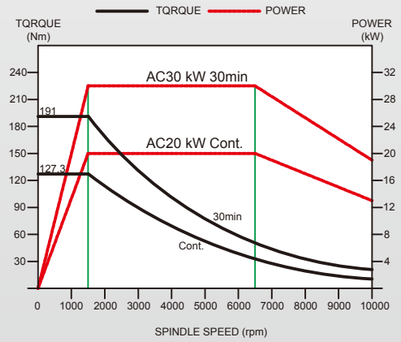
BT-50 10000rpm(SIEMENS 1PH8137-□□ F □□)



BT-50 GEAR 10000rpm(HEIDENHAIH QAN260L)



BT-50 10000rpm(HEIDENHAIH QAN260L)



STRICT QUALITY CONTROL SYSTEM

CONTROLLER

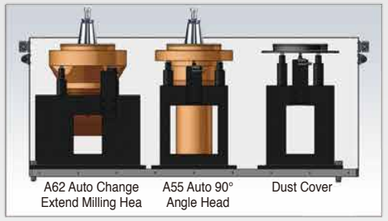
Fanuc Control

Siemens Control

Mitsubishi Control

Heidenhain Control ITNC 530

Fagor Control 8070 CNC



A62 Auto Change Extend Milling Hea
A55 Auto 90° Angle Head
Dust Cover

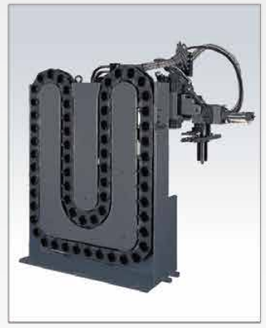
Automatic Head Change System

lose to Operator

m. Chain Type Tool Magazine

h. Chip Conveyor System

e. Coolant Thru Spindle (2HP)(Pressure 20kg/cm^2)



m-1. Two-Way(Horizontal & Vertical) Tool Magazine

g. Coolant Thru Tool Tip.

i. TS27R Tool Setting Probe.

r. BLUM Laster Control for tool setting and breakage detection.

SPECIFICATION

DESCRIPTION	UNIT	DMC-980	DMC-9120	DMC-2212	DMC-3212	DMC-2015	DMC-2615	DMC-2518	DMC-3018	DMC-4018	DMC-3022	DMC-4022	DMC-5022	DMC-3026	DMC-4026	DMC-5026	DMC-4030	DMC-5030	DMC-6030	DMC-7035	DMC-8040
Travel																					
X/Y Z axis	mm/inch	800/900/550 (31.5/35.4/21.6")	1200/900/550 (47.2/35.4/21.6")	2200/1100/700 (86.6/43.3/27.5")	3200/1100/700 (125.9/43.3/27.5")	2000/1350/700 (78.7/53/27.6")	2600/1350/700 (102.4/53/27.6")	2500/1700/900 (98.4/67/35.4")	3000/1700/900 (118/67/35.4")	4000/1700/900 (157.4/67/35.4")	3000/2100/1000 (118/82.6/39.4")	4000/2100/1000 (157/82.6/39.4")	5000/2100/1000 (197/82.6/39.4")	3000/2500/1000 (118/94/39.4")	4000/2500/1000 (157/98.4/39.4")	5000/2500/1000 (197/98.4/39.4")	4000/2900/1000 (157/114/39.4")	5000/2900/1000 (197/114/39.4")	6000/2900/1000 (236/114/39.4")	7000/3400/1000 (275.6/133.8/39.4")	8000/3900/1000 (315/153.5/39.4")
Z axis(O.P.)		670/26.4	670/26.4			900/35.4	900/35.4				Option 1100mm(43.3") 1300mm(51.2") 1500mm(59")										
Spindle nose to table surface	mm/inch	100~770 (3.9~30.3")	100~770 (3.9~30.3")	100~800 (3.9~31.4")	100~800 (3.9~31.4")	110~810 (4.3~31.8")	110~810 (4.3~31.8")	120~1020 (4.7~40.1")	120~1020 (4.7~40.1")	120~1020 (4.7~40.1")	120~1120 (4.7~44.1")	120~1120 (4.7~44.1")	120~1120 (4.7~44.1")	120~1120 (4.7~44.1")	120~1120 (4.7~44.1")	120~1120 (4.7~44.1")	120~1120 (4.7~44.1")	120~1120 (4.7~44.1")	120~1120 (4.7~44.1")	120~1120 (4.7~44.1")	120~1120 (4.7~44.1")
Distance between columns	mm/inch	1000/39	1000/39	1200/47.2	1200/47.2	1500/59	1500/59	1800/70.8	1800/70.8	1800/70.8	2200/86.6	2200/86.6	2200/86.6	2600/102.3	2600/102.3	2600/102.3	3000/118	3000/118	3000/118	3500/138	4000/160
Table	mm/inch																				
Dimension	mm/inch	800 x 900 (31.5 x 35.4")	1300 x 900 (51.2 x 35.4")	2300x900 (90.5 x 35.4")	3300x900 (129.9 x 35.4")	2000 x 1200 (78.7 x 47.2")	2700 x 1200 (106.3 x 47.2")	2700 x 1700 (86.6 x 67")	3200 x 1700 (125.9 x 67")	4200 x 1700 (165 x 67")	3200 x 1800 (126 x 70.8")	4200 x 1800 (165 x 70.8")	5200 x 1800 (204.7 x70.8")	3200 x 2150 (126 x 84.6")	4200 x 2150 (165.3 x 84.6")	5200 x 2150 (204.7 x 84.6")	4200 x 2700 (165 x 106")	5200 x 2700 (205 x 106")	6200 x 2700 (244 x 106")	7200 x 3200 (283.4 x 126")	8200 x 3700 (322.8 x 145.6")
Working area	mm/inch	750 x 850 (29.5 x 33.4")	1150 x 850 (45.3 x 33.4")	2200x1060 (86.6 x 41.7")	3200x1060 (125.9 x 41.7")	1960 x 1280 (77.2 x 50.4")	2560 x 1280 (100.8 x 50.4")	2500 x 1660 (78.7 x 61.4")	3000 x 1660 (118 x 61.4")	4000 x 1660 (157 x 61.4")	3000 x 2060 (118 x 81")	4000 x 2060 (157 x 81")	5000 x 2060 (196.8 x 81")	3000 x 2460 (118 x 96.8")	4000 x 2460 (157 x 96.8")	5000 x 2460 (196.8 x 96.8")	4000 x 2900 (157 x 114")	5000 x 2900 (197 x 114")	6000 x 2900 (236 x 114")	7000 x 3400 (275.6 x 133.8")	8000 x 3900 (315 x 153.5")
T-Slot (W x No. x CD)	mm	18 x 7 x 100	18 x 7 x 100	22 x 7 x 125	22 x 7 x 125	22 x 7 x 125	22 x 7 x 125	22 x 9 x 200	22 x 9 x 200	22 x 9 x 200	22 x 10 x 200	22 x 10 x 200	22 x 10 x 200	22 x 11 x 200	22 x 11 x 200	22 x 11 x 200	28 / 14 / 200	28 / 14 / 200	28 / 14 / 200	30 / 16 / 200	32 / 18 / 200
Max. Table load	kgs/lbs	1500/3300	1500/3300	4000/3740	5000/3740	3000/6600	8000/17600	6200/13640	6200/13640	6200/13640	10000/22000	12000/26400	15000/33000	12000/26400	15000/33000	18000/39600	15000 / 33000	18000 / 39600	20000 / 44000	20000 / 44000	20000 / 44000
Compatible with various types of spindles **Spindle**																					
Spindle speed (Built-in type)	rpm	18,000/20,000(O.P.)	18,000/20,000(O.P.)	18,000/20,000(O.P.)	18,000/20,000(O.P.)	18,000/20,000(O.P.)		18,000/20,000(O.P.)			BT50 (8000 / 10000 / 12000rpm)										
Spindle motor (Built-in type) / Torque Max.	kw / NM	18kw / 80NM				21kw / 200NM		21kw / 200NM			FANUC αB160LL(30kw), L:350NM, H:95NM										
Spindle Taper		HSK 63A						HSK 63A			HSK-100 / BT50 DIN69871										
Spindle speed (Direct Drive)	rpm	BT40: 12,000 / 15,000 BT50:8,000/10,000/12,000rpm(O.P.)									BT50: 8,000/10,000/12,000rpm										
Dual-speed spindle motor Kw-Nm(L/H) (Direct Drive)	Controller Kw/Nm	1.Fanuc- ①αT8 / ②αT15 / ③αL15/ ④αL26 / ⑤αB160LL ① αT8 7.5Kw-15000rpm L:47Nm H:23.9Nm ② αT15 18.5Kw-12000rpm L:102Nm H:28.6Nm ③αL15 18.5Kw-15000rpm L:150Nm H:35Nm ④ αL26 (18.5-22kw) 10000rpm L:286Nm H:88Nm ⑤αB160LL (30kw) 10000rpm L:350Nm H:95Nm ⑥αL8 11-15Kw-20000rpm L:79.5Nm H:23.9Nm						2.Mitsubishi- SJ-VKRS30-06ZM 22Kw-10000rpm L:286Nm H:88Nm		3.Siemens- 1PM6138-2LF8 22Kw-10000rpm L:140Nm H:53Nm	1.Fanuc- ①αT15 / ②αL15 / ③αL26 / ④αB160LL ①αT15 18.5Kw-12000rpm L:102Nm H:28.6Nm ②αL15 18.5Kw-15000rpm L:150Nm H:35Nm ③αL26 (18.5-22kw) 10000rpm L:286Nm H:88Nm ④αB160LL (30kw) 10000rpm L:350Nm H:95Nm			2.Mitsubishi-SJ-VKRS30-06ZM 22Kw-10000rpm L:286Nm H:88Nm		3.Siemens-1PM6138-2LF8 22Kw-10000rpm L:140Nm H:53Nm				
αD22+ZF Gear Box αD30+ZF(Direct Drive)	(1:4)	(After Mounting Gear Box) H:8000rpm/140NM L:2000rpm/560NM (After Mounting Gear Box, the torque increase 4 times at low speed) H:8000rpm/286NM L:700rpm/1140NM									(After Mounting Gear Box) H:8000rpm/140NM L:2000rpm/560NM (After Mounting Gear Box, the torque increase 4 times at low speed) H:8000rpm/286NM L:700rpm/1140NM										
SJ-V26+ZF Gear Box(Direct Drive)	(1:4)																				
Spindle Taper (o.p.)		BT40/DIN69871 / BT50/DIN69871(O.P.)				BT50/DIN69871					BT50/DIN69871										
Feedrate																					
Cutting feed	mm	1-10,000(DEPENDING ON CONTROLLER)									1-10,000 (DEPENDING ON CONTROLLER)										
X/Y axis rapid traverse(o.p.)	mm	30,000	30,000	20,000(36,000)	20,000(36,000)	20,000(36,000)	20,000	20,000	16,000	16,000	16,000	16,000	12,000	16,000	12,000	12,000	12,000 / 12,000	12,000 / 12,000	10,000 / 10,000	10,000 / 10,000	10,000 / 10,000
Z axis rapid traverse(o.p.)	mm	15,000	15,000	20,000(36,000)	20,000(36,000)	15000	15,000	15,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	10,000	10,000	10,000
X axis servo motor	NM	22	22	22	22	22	22	30			30 (Two motors)										
Y/Z axis servo motor		22/30	22/30	22/30	22/30	22/30	22/30	22/30 (Z axis Hydraulic Balance)			22/22 (Z axis Hydraulic Balance)										
Linear guide (Roller Type)																					
X/Y/Z axis	mm	X:35x2sets / Y:35x2sets 25x1set / Z:45x2sets		X:45x2sets / Y:45x2sets 25x1set / Z:45x2sets				X:55x2sets/ Y:45x2sets 25x1set/ Z:55x2sets			X:65x2sets / Y:45x2sets 35x1set / Z:55x2sets 45x2sets			X:65x2sets / Y:45x2sets 35x1set / Z:55x2sets 45x2sets			X:65x3sets / Y:45x2sets 35x1set / Z:55x2sets 45x2sets				
Ballscrew																					
X axis ballscrew dia x pitch	mm	45 x 12	45 x 12	50 x 12	50 x 12	50 x 12	50 x 12	55 x 12	55 x 16	63 x 16	63 x 16		80 x 16	63 x 16	63 x 12	80 x 12	63 x 12	80 x 12	80 x 10	80 x 10	80 x 10
Y axis ballscrew dia x pitch	mm	45 x 12	45 x 12	50 x 12	50 x 12	50 x 12	50 x 12	50 x 12	50 x 12	50 x 12	50 x 12			50 x 12	50 x 12	50 x 12	55 x 12	55 x 12	55 x 12	63 x 12	63 x 12
Z axis ballscrew dia x pitch		45x10				45x10					45x12										
A.T.C.																					
Type of tool(HSK63A/BT40) Tool capacity	Armless	Armless type 12(OP)16/20				Armless type 12(OP)16/20					Armless type 12(OP)16/20										
Type of tool(for BT40/BT50) Tool capacity	Arm	Arm 24/30(Disc type) 32/40/60/80/120(Chain type)									Arm 24/30(Disc type) 32/40/60/80/120(Chain type)										
Maximum tool diameter	mm/inch	24T(BT40) : 135 (5.3") / 24T(BT50) : 160 (6.3")									24T(BT40) : 135 (5.3") / 24T(BT50) : 160 (6.3")										
Maximum tool length	mm/inch	24T(BT40) : 300 (11.8") / 24T(BT50) : 400 (15.7")									24T(BT40) : 300 (11.8") / 24T(BT50) : 400 (15.7")										
Maximum tool weight	kgs/lbs	8 (17.63) / 20 (44)									8 (17.63) / 20 (44)										
Tool to tool time	Sec	1.8 / 2.5									1.8 / 2.5										
Air supply	kg/cm²	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Power supply	KVA	35	35	35	35	35	35	35	35	35	40	40	40	40	40	40	40	40	40	40	40
Coolant pump	HP	1HP x 2pcs									1HP x 2pcs										
Machine weight (net)	kgs/lbs	9,000/10,800	11,500/25,300	14,200/31,240	17,200/37,840	21,200/ 46,640	25,000/ 55,000	26,500/58,300	28,500/62,700	32,000/70,400	32,000/70,400	36,500/80,300	41,000/90,200	41,000/90,200	45,500/100,100	50,000/110,000	68,000 / 149,600	80,000 / 176,000	92,000 / 202,400	105,000 / 231,000	125,000 / 275,000
Raiser block 200mm(O.P.)	mm	310~865	310~865	310~865	310~865	310~895	310~895	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Raiser block 500mm(O.P.)	mm	610~1165	610~1165	610~1165	610~1165	610~1195	610~1195	—	—	—	—	—	—	—	—	—	—	—	—	—	—

A SPECIAL CUSTOM-MADE SPECIFICATION IS ACCEPTABLE

DIMENSION

	DMC980	DMC9120	DMC2212	DMC3212	DMC2015	DMC2615	DMC2518	DMC3018	DMC4018	DMC3022	DMC4022	DMC5022	DMC3026	DMC4026	DMC5026	DMC4030	DMC5030	DMC6030	DMC7035	DMC8040
A	2400mm	3070mm	4900mm	7100mm	4700mm	5900mm	6785mm	7100mm	8100mm	7200mm	8200mm	9200mm	7500mm	8500mm	9500mm	10000mm	11000mm	13000mm	15500mm	17500mm
B	3320mm	3320mm	3320mm	3320mm	3475mm	3475mm	3600mm	3600mm	3600mm	3600mm	3600mm	3600mm	3600mm	3600mm	3600mm	4000mm	4000mm	4000mm	4000mm	4000mm
C	3380mm	3380mm	3650mm	3650mm	3960mm	3960mm	4300mm	4300mm	4300mm	4700mm	4700mm	4700mm	5000mm	5000mm	5000mm	5700mm	5700mm	5700mm	6200mm	6700mm
D	750mm	750mm	865mm	865mm	910mm	910mm	810mm	810mm	810mm	820mm	820mm	820mm	820mm	820mm	820mm	810mm	810mm	810mm	810mm	810mm
E	590mm	590mm	590mm	590mm	590mm	590mm	590mm	590mm	590mm	590mm	590mm	590mm	590mm	590mm	590mm	590mm	590mm	590mm	590mm	590mm
F	210mm	210mm	210mm	210mm	210mm	210mm	210mm	210mm	210mm	210mm	210mm	210mm	210mm	210mm	210mm	210mm	210mm	210mm	210mm	210mm
G	3360mm	3360mm	6465mm	8100mm	7000mm	8000mm	7000mm	8000mm	9000mm	8100mm	9000mm	11500mm	8200mm	9200mm	11500mm	10500mm	11500mm	12500mm	14500mm	17000mm