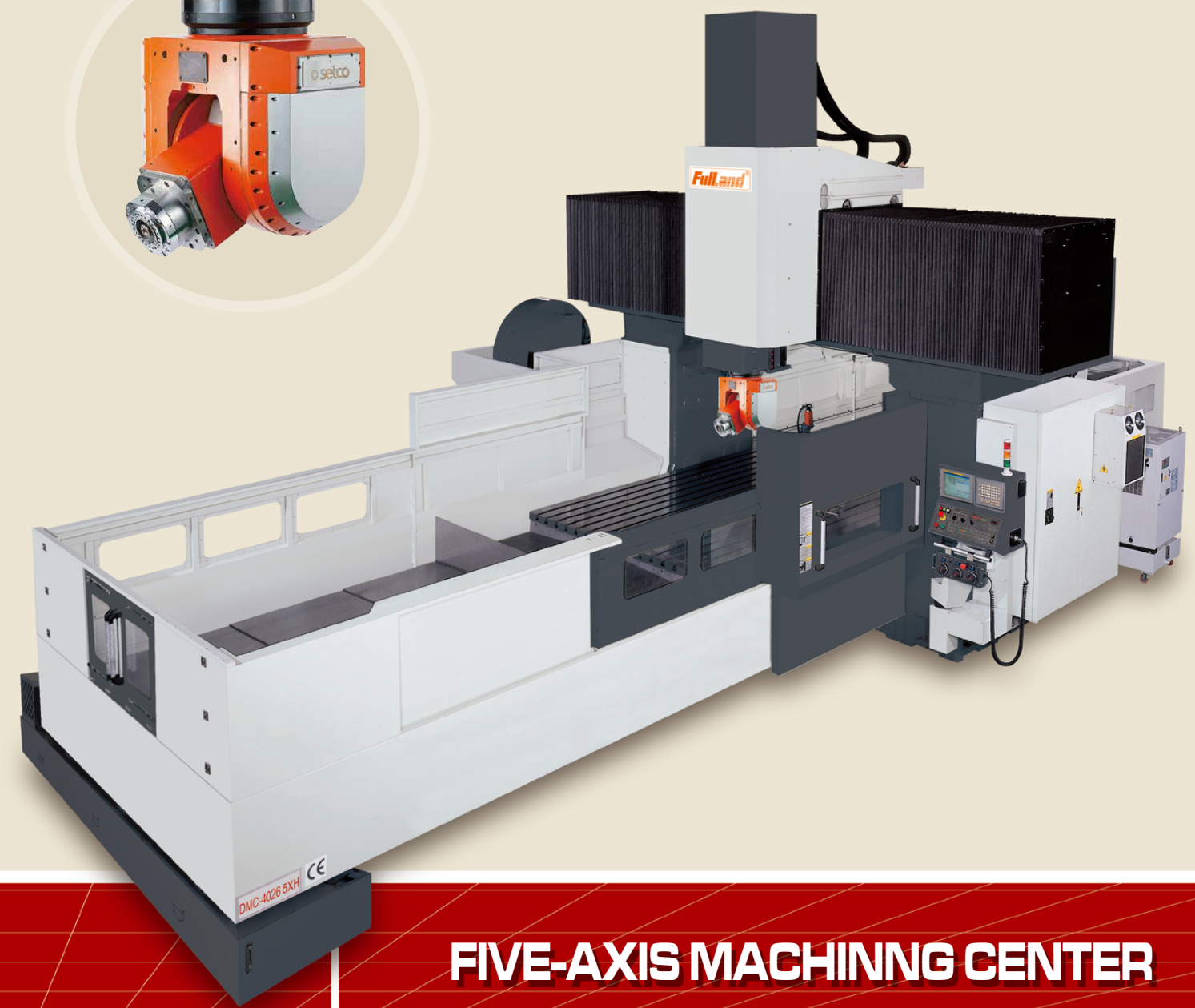


FullLand®

Work Pieces



FIVE-AXIS MACHINING CENTER

Feature 4H+1R

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

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 2008

GEON CHENG TECHNOLOGY CO., LTD.
 P.O.BOX 246 FENG YUAN TAICHUNG, TAIWAN
 No.78, Sanshe Rd., Shengang Dist. Taichung City 429, Taiwan
 TEL: +886-4-25316697 FAX: +886-4-25316657
 E-mail: geontech@hibox.hinet.net
 www.geontech.com.tw

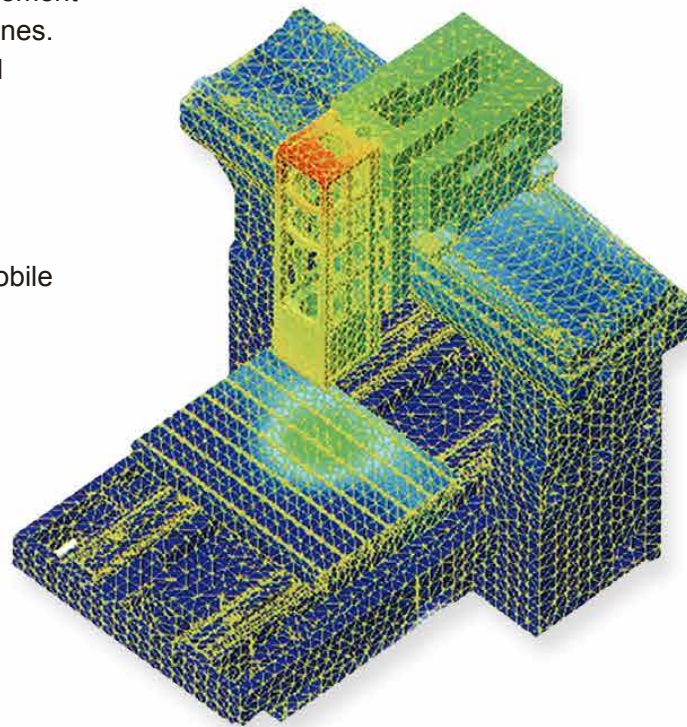


Optimum structure of **GEOTECH DMC-SERIES** is designed by an excellent and experienced team of engineers. Using Finite Element Scheme with ANSYS SOFTWARE to ensure rigidity of machines. After the completion of assembling of whole machine, related geometric and kinematics tests are via precise instruments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

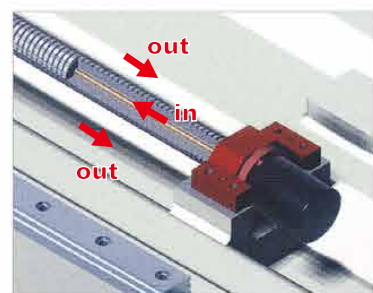
DMC-SERIES suit for 3-C products (Consumer Electronics, Communications and Computers) as well as complicated parts and moulds for injection, automobile and aerospace industries.

Patent approved by Germany, Taiwan, China.

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



Work Pieces



Ball Screw Cooling System

Schematic drawing of internal cooling hollow ball screw

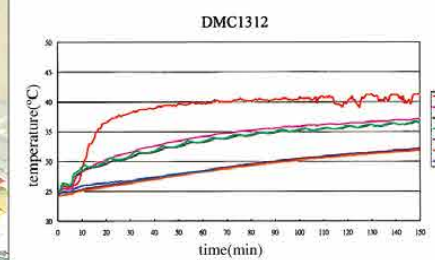
There is cooling provided throughout the DMC series including: Oil cooled guide ways, ball screws, spindle, spindle motor and bridge. Additionally there is a thermal compensation system which automatically adjusts the machine to compensate for thermal deviations which could affect cutting accuracy. (Standard 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

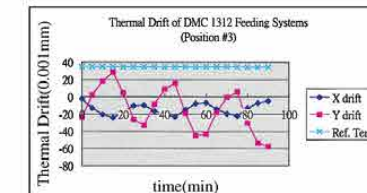
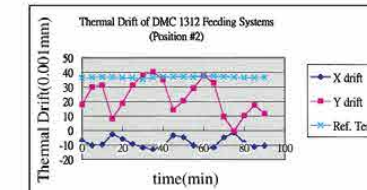
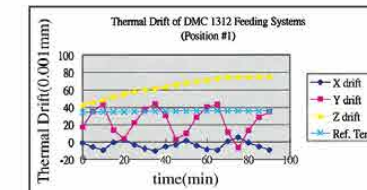


Spindle Thermal Stability Test

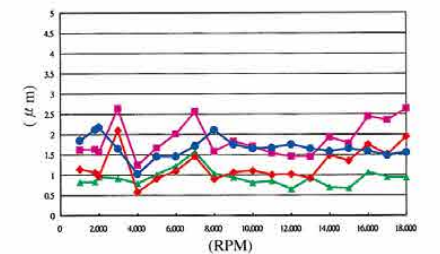


The temperature change result after 2.5 hours running.

2 Thermal Drift Testing of Feeding Mechanisms

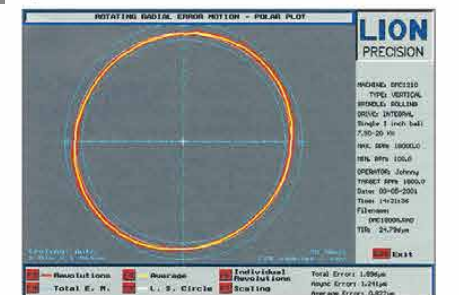


3 Spindle Radial and Axial Error Motion Test



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

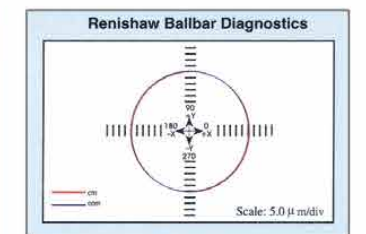
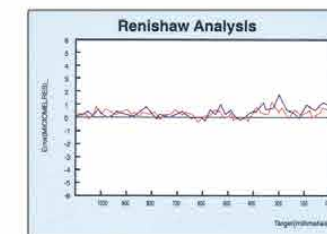
4 Spindle Radial and Axial Error Motion Test



High Accuracy Inspection ensure the life of machine



100% pitch error inspected by laser unit. 100% dynamic traverse inspected.



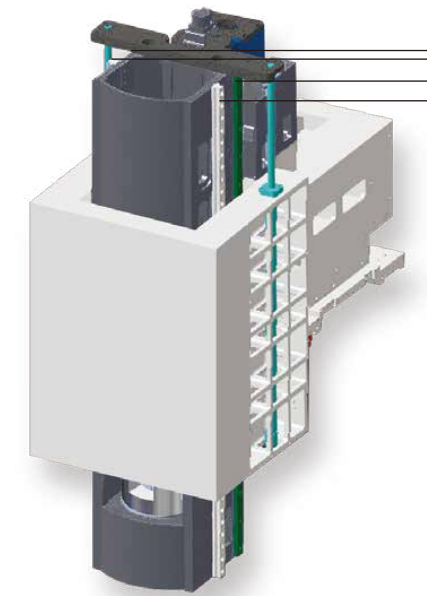
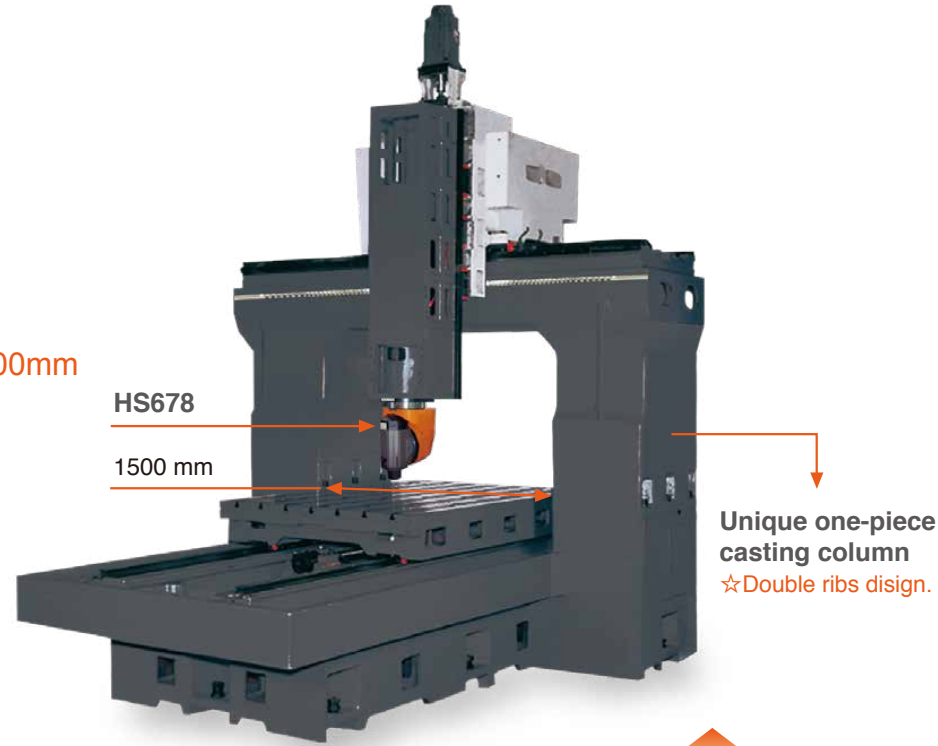
Reference Standards: VD13441 Positioning Accuracy: 0.004 / 300mm Repeatability: ±0.002mm

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

▲ STRAIGHTNESS






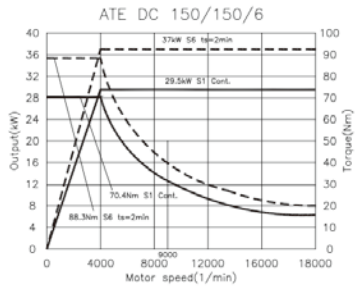
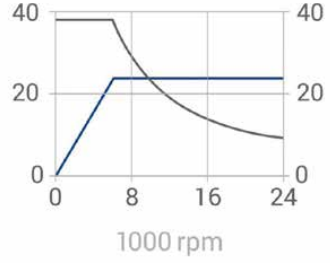
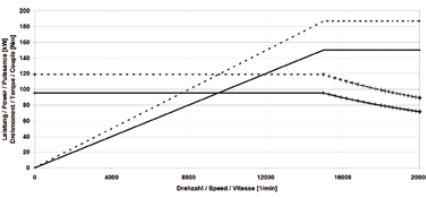
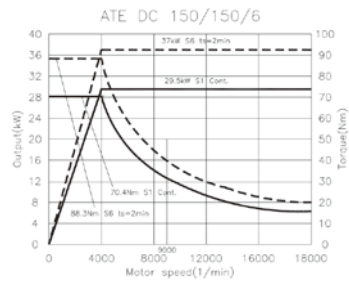
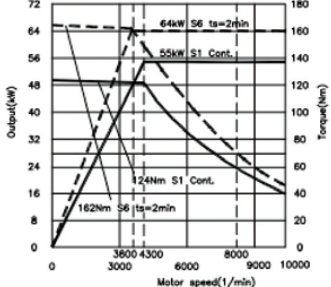
DMC -2015-5XH

- X-axis: 1800mm
- Y-axis: 1300mm
- Z-axis: 700mm
- Distance between columns: 1500mm
- Rigid body



4 LINEAR ROLLER GUIDEWAYS

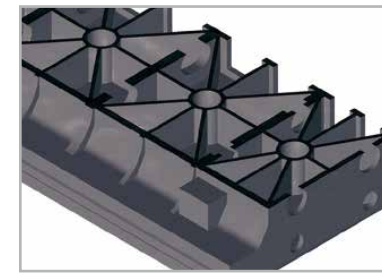
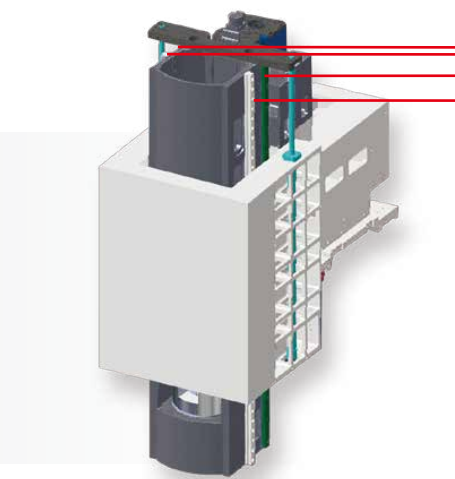
Mounting Four pieces of Linear Roller Guideways on Z axis so that the Radial & Axial strength is double and machining efficiency increased.
Surface finish < 0.5umRa
PATENT NO. M281740

Model	C67	HSD-H678	AC-6	C66	C68
Description					
Max. Power Kw(HP)	29.5kw 70.4NM	24kw 38.2NM S1	63kw 306NM		64kw 124NM
Vertical Spindle Max. Speed	18000rpm	24000rpm	15000rpm		10000/12000rpm
Vertical Spindle Taper			330		
Swivel Angle			280		
Tool Interface	HSK A63	HSK A63	HSK A100	HSK A63	HSK A63
Max Spindle Speed	18000rpm	12000-20000rpm	15000rpm	18000rpm	10000-12000rpm
Spindle Power	29.5kW				55kW
Spindle Torque	70.4 Nm				124 Nm
Vertical Max Tool Dia * length(mm)	80x250 mm	75x200 mm	100x300 mm	80x250 mm	
Vertical Spindle Head Center to spindle nose end (mm)	330mm	250mm	338mm	330mm	
					

Art Fulland High Speed, High Precision Bridge-Type Machining Center

Different from the common twin slide ways, four slide ways on the spindle head ensure the spindle head rigidity and multi-function application.

Taiwan Patent No.: M281740
Taiwan Patent No.: M294988



The radial ribbing design absorbs both the radial and axial forces to achieve rigid machine.

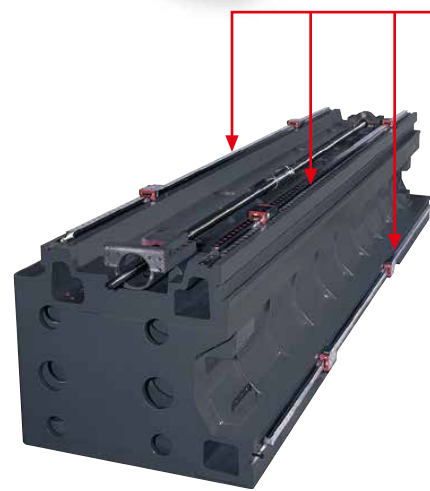
Germany Patent No.: 2020040198622
Taiwan Patent No.: M225096



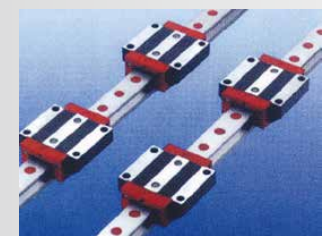
Taiwan's first origin by Fulland, mount 3 pieces of roller linear guides to enable the rapid traverse easily.

Saddle supported by 3 pieces of roller linear guides, machining rate is increased by 25%.

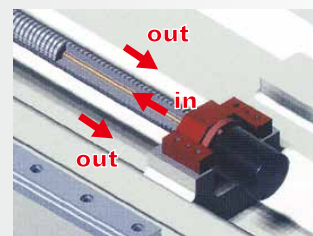
Germany Patent No.: 2020040174030
Japanese Patent No.: 310B878
China Patent No.: 676573
Taiwan Patent No.: M257251
Spain Patent No.: 1059432



The large number and close spacing of the leveling screws on the base provides stable and even support for the machine structure.



Schneberger or Same Grade Roller Guide



Oil Cooling System for X,Y-axes Ball Screws



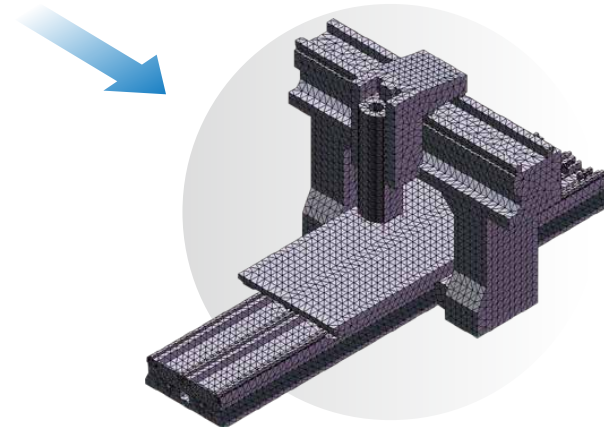
X-axis with double ball screws ensure position accuracy and repeatability. (Column: 3000mm above)



Pollution-preventive mechanism on the bed.



Germany Patent No.: 2020040198614
Taiwan Patent No.: M225100



Machine structure with Double Column and optimized using Finite Element Analysis to achieve its high rigidity and resistance to torsional stress

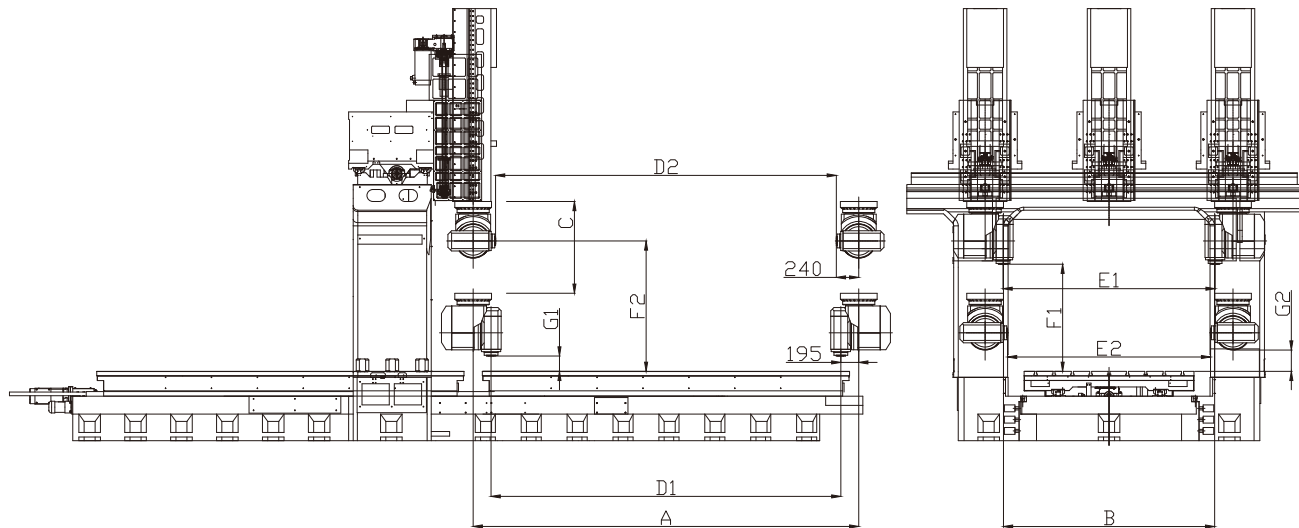
DESCRIPTION	DMC-4025	DMC-5025	DMC-5035	DMC-6030	DMC-6040	DMC-7035	DMC-8040
Table size / mm	4200x2200	5200x2200	5200x3200	6200x2700	6200x3700	7200x3200	8200x3700
X/Y/Z axis / mm	4000/2400/1000	5000/2400/1000	5000/3400/1000	6000/2900/1000	6000/3900/1200	7000/3400/1200	8000/3900/1200

A Brand New Model of Five-Axis Machining Center

- Rigid and reliable special designed two-angular rotational spindle.
- Unique one-piece casting for the Double Column and Cross Rail design.
- Fully supported interface between Double Column and Base to prevent vibration during cutting.
- Firmly mounted linear guideways on three axes.
- Modularized design to meet the requirement from different applications and easy maintenance.
- Low inertia and high rigidity structure.
- Fully-tested reliable mechanism.



- The A and C axes are designed to fix on the Z-axis trail to enlarge working area.
- The rotational spindle possesses the positioning ability at any desired angle to perform the normal cutting for any complex surfaces of working piece. Meanwhile, this arrangement can reduce the travel path and the weariness of tools.
- X axis sideway mounted on the top of cross rail to shorten the distance from the spindle head to the X axis sideway.



C67 Two-Axis Milling Head • Precision Of Positioning = 10" / 10" • Max. Speed = 15000/18000 rpm • Precision Of Repeatability = ±3" / ±3"

Distance Between Column	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

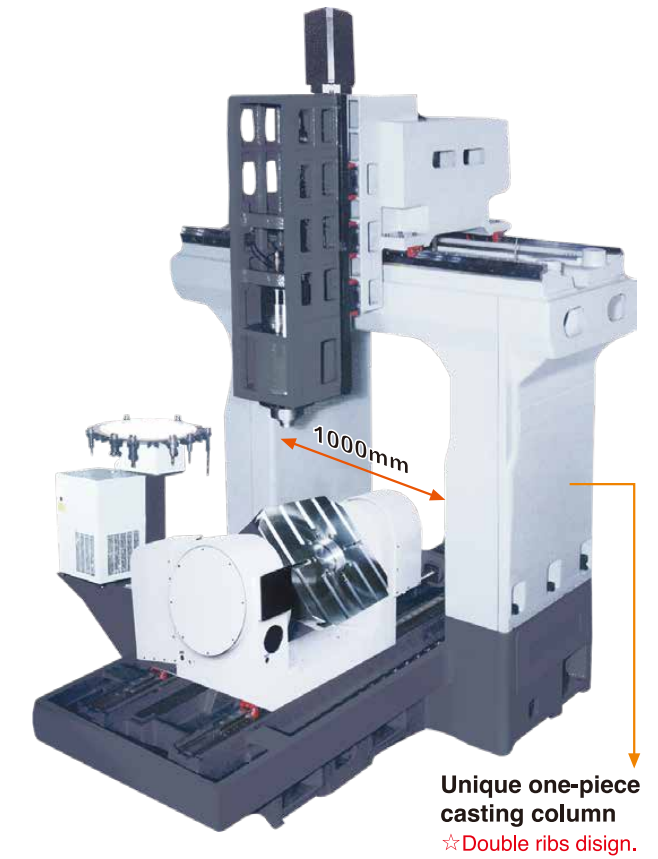
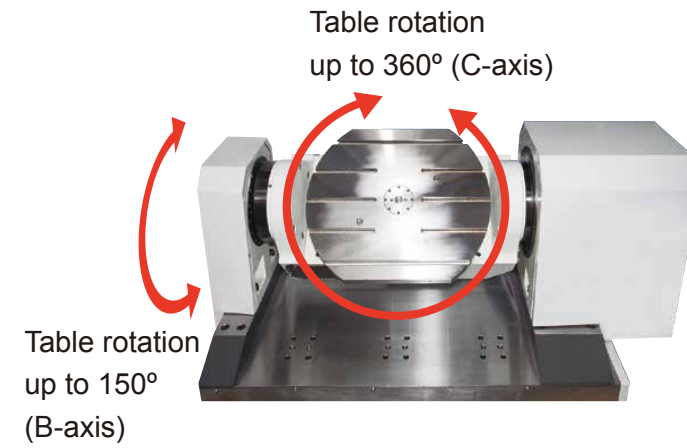
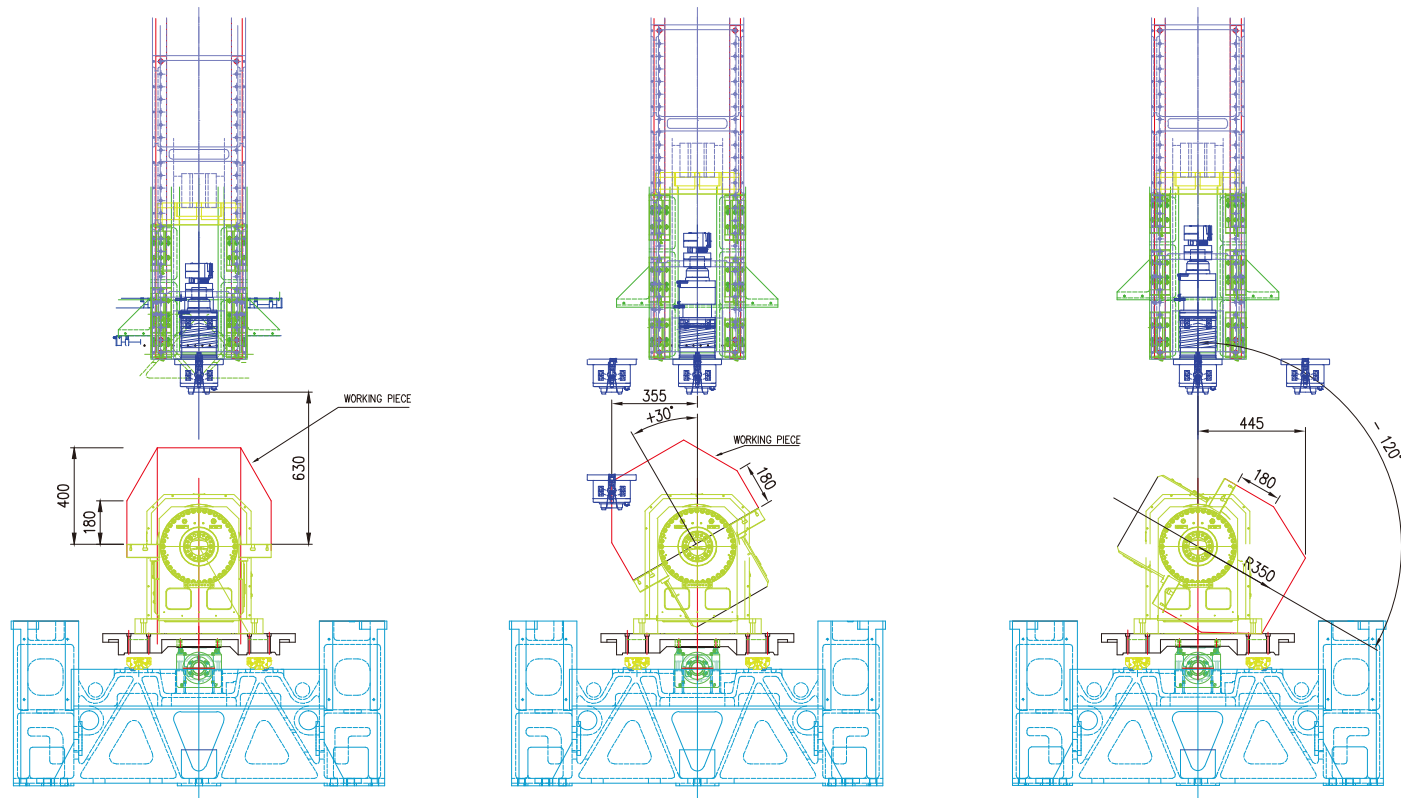
SPECIFICATION

DESCRIPTION	UNIT	DMC-2015	DMC-2615	DMC-2518	DMC-3018	DMC-3022	DMC-4022	DMC-5022	DMC-5026	DMC-4030	DMC-6030
Travel											
X axis	mm/inch	2000/78.7"	2500/98.4"	2500/98.4"	3000/118"	3000/118"	4000/157.5"	5000/196.9"	5000/196.9"	4000/157.5"	6000/236.2"
Y axis	mm/inch	1350+480 (53.1"+18.8")	1350+480 (53"+18.8")	1700+480 (66.9"+18.8")	1700+480 (66.9"+18.8")	2100+480 (82.6"+18.8")	2100+480 (82.6"+18.8")	2100+480 (82.6"+18.8")	2500+480 (98.4"+18.8")	2900+480 (114"+18.8")	2900+480 (114"+18.9")
Z axis	mm/inch	700/27.6"	700/27.6"	900/35.4"	900/35.4"	1000/39.4"	1000/39.4"	1000/39.4"	1000/39.4"	1000/39.4"	1000/39.4"
Distance between columns	mm/inch	1500/59.1"	1500/59.1"	1800/70.9"	1800/70.9"	2200/86.6"	2200/86.6"	2200/86.6"	2600/102.4"	3000/118"	3000/118"
Table											
Dimension	mm/inch	2000x1200 (78.7"x47.2")	2700x1200 (106.3"x47.2")	2700x1700 (106.3"x47.2")	3200x1700 (126"x47.2")	3200x1800 (126"x70.8")	4200x1800 (165.4"x70.8")	5200x1800 (204.7"x70.8")	5200x2150 (204.7"x84.6")	4200x2700 (165.4"x106.3")	6200x2700 (244"x106.3")
Working area (without tool length)	mm/inch	1520x1350 (59.8"x53")	2120x1350 (83.5"x53")	2020x1700 (79.5"x66.9")	2520x1700 (99"x66.9")	2520x2100 (99"x82.6")	3520x2100 (138.5"x82.6")	4520x2100 (178"x82.6")	4520x2500 (178"x98.4")	3520x2900 (138.6"x114.2")	5520x2900 (217.3"x114.2")
T-Slot (W*No.*CD)	mm	22x7x125	22x7x125	22x9x200	22x9x200	22x10x200	22x10x200	22x10x200	22x11x200	28x14x200	28x14x200
Max. Table load	kgs/lbs	3000/6600	8000/17600	6200/13640	6200/13640	10000/22000	12000/26400	15000/33000	18000/39600	15000/33000	20000/44000
Spindle											
Spindle speed (Built-in type)	rpm	18000 RPM									
Spindle motor (Built-in type) / Torque Max.	kw/NM	29.5kw / 70.4NM									
Spindle Taper		HSK A63									
Feedrate											
Cutting feed	mm	1-10,000 (DEPENING ON CONTROLLER)									
X/Y axis rapid traverse (o.p.)	M	24(36)	24(36)	24(36)	20	20	20	16	16	16/16	16/16
Z axis rapid traverse (o.p.)	M	15	15	15	12	12	12	12	12	12	10
X axis servo motor	NM	HEIDENHAIN : X, Y axis: QSY-190D 9.6kw 38NM Z axis: QSY-190C 7.2kw 28NM(+Nitrogen balance)					HEIDENHAIN : X, Y axis: QSY-190D 9.6kw 38NM (+ Gear Reducer) Z axis: QSY-190C 7.2kw 28NM(+Nitrogen balance)				
Y/Z axis servo motor (X/Y/Z axis with Gear reducer)		SIEMENS : X,Y axis: 1FK7103 5.37kw 36NM Z axis: 1FK7101 4.87kw 27NM (+Nitrogen balance)					SIEMENS : X,Y axis: 1FK7103 5.37kw 36NM (+ Gear Reducer) Z axis: 1FK7101 4.87kw 27NM (+Nitrogen balance)				
Linear guide (Roller Type)											
X axis	mm	X:45x2sets		X:55x2sets		X:65x2sets			X:65x2sets		
Y axis	mm	X:45x2sets + 25x1set		X:45x2sets + 25x1set		X:45x2sets + 35x1set			X:45x2sets + 35x1set		
Z axis	mm	X:45x2sets		X:55x2sets		X:55x2sets + 45x2sets			X:55x2sets + 45x2sets		
Ballscrew											
X axis ballscrew dia * pitch	mm	50 x 12	50 x 12	55 x 12	55 x 16	63 x 16	63 x 16	80 x 16	80 x 12	63 x 12	80 x 10
Y axis ballscrew dia * pitch	mm	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
Z axis ballscrew dia * pitch	mm	45 x 10					45 x 12				
A.T.C.											
Type of tool (HSK63A/BT40)	Armless	Armless type									
Tool capacity		12(OP) 16/20									
Type of tool (for BT40/BT50)	Arm	24/30 (Disc type) 32/40/60/80/120 (Chain type)									
Tool capacity											
Maximum tool diameter	mm/inch	24T(BT40) : 78(3.1") / 24T(BT50) : 110(4.3")									
Maximum tool length	mm/inch	24T(BT40) : 300(11.8") / 24T(BT50) : 350(13.8")									
Maximum tool weight	kgs/lbs	8(17.63) / 20(44)									
Tool to tool time	sec	1.8 / 2.5									
Air supply	Kg/cm2	6	6	6	6	6	6	6	6	6	6
Power supply	KVA	35	35	35	35	45	45	45	45	45	45
Coolant pump	HP	1HP x 2pcs									
Machine weight (net)	kgs/lbs	21200/46640	21200/46640	26500/58300	28500/62700	32000/70400	36500/80300	41000/90200	50000/110000	68000/149600	92000/202400
Raiser block 200mm (o.p.)	mm	310-895	310-895	x	x	x	x	x	x	x	x
Raiser block 500mm (o.p.)	mm	610-1195	610-1195	x	x	x	x	x	x	x	x

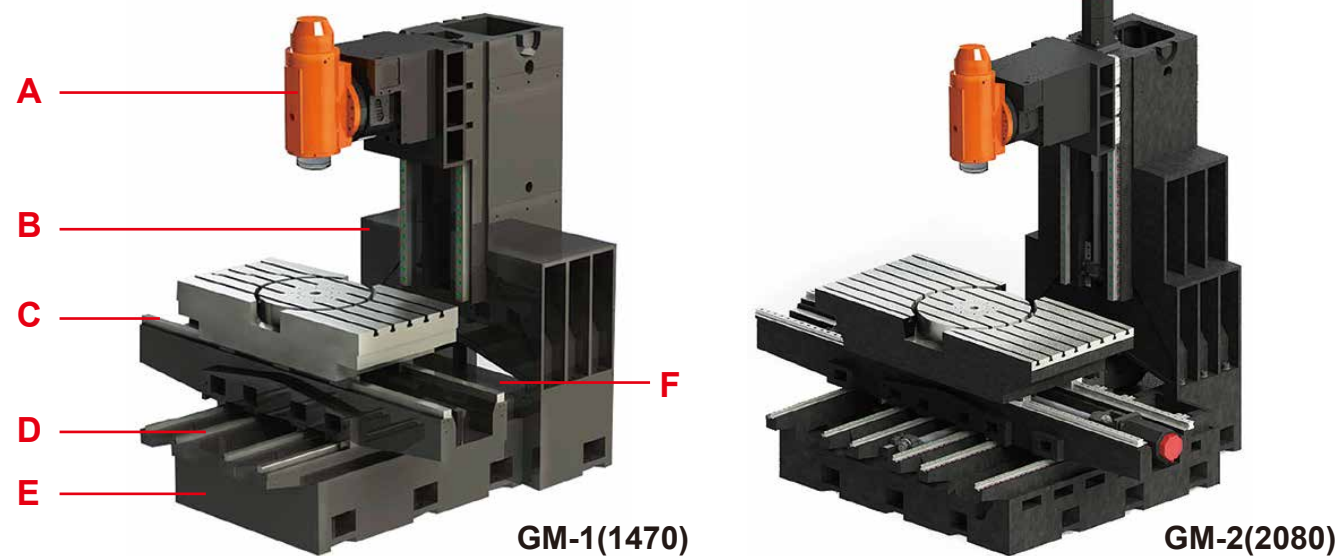


DMC-980-5XT

- X-axis: 630mm
- Y-axis: 630mm
- Z-axis: 550mm
- Distance between columns: 1000mm



		FullLand DMC-980-5XT	DMC-1215-5XT
ROTARY TABLE	Size	ø600mm (23.6")	ø800mm (31.5")
	Max. loading weight	500kg	1200kg
TRAVEL	X-axis	630mm (24.8")	1000mm (39.4")
	Y-axis	630mm (24.8")	1000mm (39.4")
	Z-axis	480mm (18.9")	700mm (27.6")
	A-axis	+30°-120°	+30°-120°
	C-axis	360°	360°
	Distance between Columns	1000mm (39.4")	1500mm (59.1")
SPINDLE	Table surface to spindle nose	120-600mm (4.7"-23.6")	100-800mm (4.1"-31.5")
	Spindle taper	BT-40 HSK-A63(Opt)	BT-40 HSK-A63(Opt)
	Spindle speed (Direct Drive)	12000rpm(Std) / 15000rpm(Opt)	12000rpm(Std) / 15000rpm(Opt)
	Spindle Motor / Kw	10/12.5 kW	10/12.5 kW
	Spindle speed (Build in Type)	18000rpm(BT-40) / 30000rpm(BT-30)	18000rpm(BT-40) / 30000rpm(BT-30)
FEEDRATE	Spindle Motor / Kw	19.4kw / 8.2kw	19.4kw / 8.2kw
	Rapid traverse X/Y/Z	36/36/30 m/min	36/36/30 m/min
	Rapid traverse A/C	25/33 rpm	50/100 rpm
	Max. cutting feed	20 m/min	20 m/min
	Guide way	Linear guide way	Linear guide way
ATC	Tool type	BT-40	BT-40
	Magazine capacity	ARM-24T	ARM-24T
	Max. tool length(mm)	300	300
	Max. tool diameter(w/adjacent tool)	78	78
	Max. tool weight	8	8
DIMENSION	Width x Depth	3520x3420 mm (138.5" x 134.6")	
	Machine height	3300mm (129.9")	4000mm (157.5")
	Machine weight	9,000kg / 19,841 lbs	17000kg / 37,478 lbs



- A:** Head swing ± 120 degree
- B:** Special inverse-T design bears axial & radial force to increase machine rigidity & head stock stability and to last accuracy under high speed traveling.
- C:** High resolution linear scale ensures optimal positioning and repeatability accuracy.
- D:** Roller type linear guide ways provide rigidity for heavy cutting & high speed traverse.
GM-1(1470) base: 4 roller linear guide ways
GM-2(2080) base: 6 roller linear guide ways
- E:** One piece casting base provides solid support to ensure ultimate dynamic accuracy
- F:** Hand scraped contact surface of column & bed ensures precision assembly, strong structure & loading balance.

MODEL	GM-1 (1470)	GM-2 (2080)
TABLE		
Table size (L*W) (mm/inch)	1500*650 / 59.05*25.59	2000*800 / 78.74*31.49
X axis travel range (mm/inch)	1400 / 55.12	1900 / 74.80
Y axis travel range (mm/inch)	700 / 27.56	800 / 31.50
Z axis travel range (mm/inch)	650 / 25.60	700 / 27.56
Max table load (kg/lbs)	700 / 1560	1200 / 2670
Spindle nose to table surface (Vertical) (mm/inch)	100~750 / 3.94~29.53	100~800 / 3.94~31.50
Spindle nose to table surface (Horizontal) (mm/inch)	100~900 / 3.94~35.43	100~980 / 3.94~38.58
T slot (W*D*N mm)	18*100*5	18*100*7
ROTARY TABLE		
C axis D.D. Motor (FANUC / ETEL)	FANUC DiS250/250 (A06B-0495-B200) 200V Liquid cooling / ETEL TMB0290-100	FANUC DiS500/250 (A06B-0495-B400) 200V Liquid cooling / ETEL TMB3060-070
Table diameter (mm/inch)	$\phi 500 / \phi 19.68$	$\phi 630 / \phi 24.8$
Center bore diameter (mm/inch)	$\phi 50 / \phi 1.96$	$\phi 60 / \phi 2.36$
Rotation speed (rpm)	22.2	40~50
Minimum index	0.001	0.001
Max table load (kg/lbs)	550 / 1225	900 / 2000
B axis rated torque (FANUC / SIEMENS / HEIDENHAIN)	$\alpha 12(12Nm) / 1FK7063(11Nm) / QSY155B(13Nm)$	$\alpha 12(12Nm) / 1FK7083(16Nm) / QSY155C(17.7Nm)$
C axis rated torque (Nm) (FANUC / ETEL)	225 / 195	520 / 554
Built-in spindle		
Spindle taper	BT40 / BBT40 / HSK-A63	BT40 / BBT40 / HSK-A63
Spindle center to column (mm/inch)	750 / 29.52	850 / 33.46
Spindle speed (rpm)	15000	15000
Motor type (FANUC / ATE)	FANUC Bi112S / ATE-170	FANUC Bi112L / ATE-180
Main motor (KW) (FANUC / ATE)	5.5-7.5 / 21-25	15-18.5 / 27-35
Motor torque (Nm) (FANUC / ATE)	44-60 / 69-83	95-167 / 93-113
SWING HEAD		
Drive type	WORM GEAR	WORM GEAR
Reduction ratio	1 : 90	1 : 90
Tilting range (degree)	± 120	± 120
Max speed (rpm)	16.7	16.7
Minimum unit	0.001	0.001
Working torque (Nm)	350	350
AXIS SERVO MOTORS		
Rapid feed rate (X/Y/Z) m/min (inch/min)	36/36/24 (1417/1417/945)	24/24/24 (945/945/945)
Feed rate (X/Y/Z) m/min (inch/min)	10 (394)	10 (394)
Rated torque for X,Y,Z axes (FANUC / SIEMENS / HEIDENHAIN)	$\alpha 22(22Nm) / 1FK7083(16Nm) / QSY155C(17.7Nm)$	$\alpha 30(30Nm) / 1FK7101(27Nm) / QSY190C(28Nm)$
ACCURACY		
Positioning for XYZ axes (mm/inch)	0.005 / 0.0002	0.005 / 0.0002
BC rotary (sec)-Undirectional	4"	4"
Repeatability for XYZ axes (mm/inch)	0.005 / 0.0002	0.005 / 0.0002
BC rotary (sec)-Bidirectional	8"	8"
OTHER		
Air requirement (kg/cm)	6	6
Voltage	380	380
Power requirement (KVA)	40	50
Coolant tank capacity (L)	280	480
Machine weight (kg/lbs)	7200 / 16000	11000 / 24450
Floor space (L*W) m/inch	4*2.5 / 157.5*98.5	5.2*3 / 205*118.1
Packing size (L*W*H) m/inch	3*2.5*3 / 118.1*98.5*118.1	6.5*3*3.5 / 256*118.1*137.8

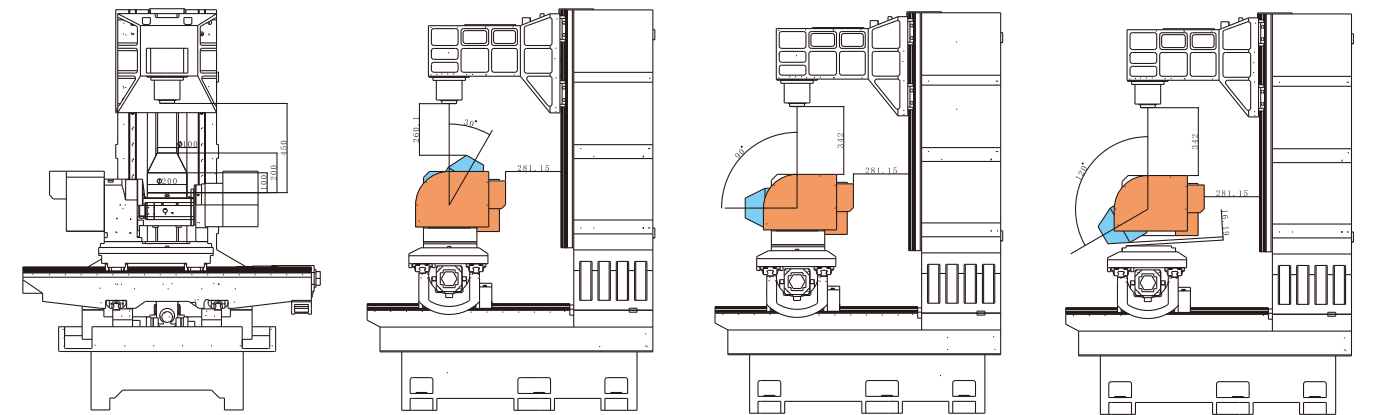
5 Axis Simultaneous Machining Center



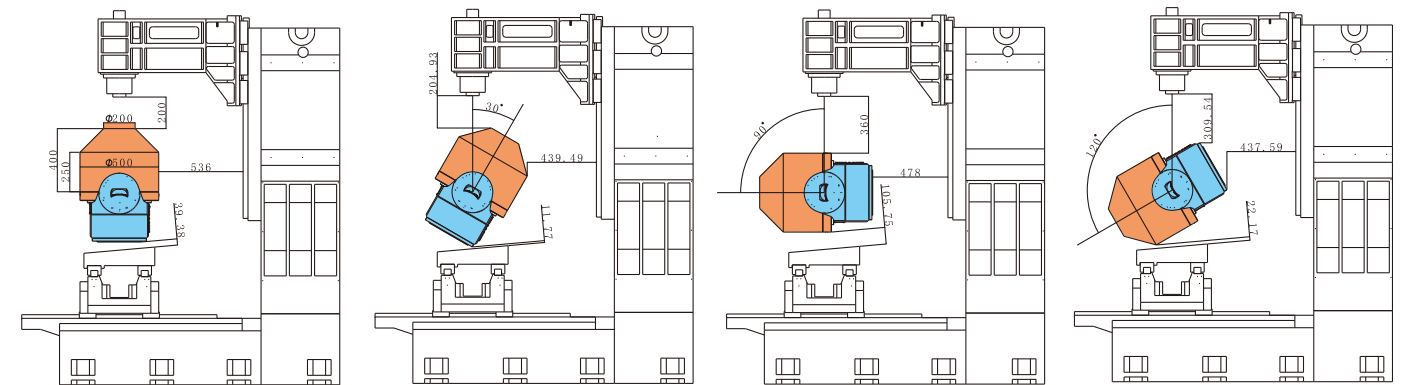
SPECIFICATION

Description	GLG-50-5XT	GLG-70-5XT	GLG-80 5XT	
TRAVEL				
X axis (mm/inch)	600mm(23.6")	800mm(31.5")	900mm(35.4")	
Y axis (mm/inch)	500mm(19.7")	700mm(27.6")	800mm(31.5")	
Z axis (mm/inch)	450mm(17.7")	600mm(23.6")	600mm(23.6")	
TILTING TABLE Fix on X axis block		LCM from Italy	LCM from Italy	
Size: DIA (mm)	Ø200	Ø500	Ø600 / Square 500	
Width of T-slot	12H7	14H7	14H7	
Rotary-axis(degree)	360 degrees	360 degrees	360 degrees	
Tilting-axis(degree)	+30~-120 degrees	+30~-120 degrees	+30~-120 degrees	
Max table load (Kgs).....Horizontal position	120Kgs	500Kgs	500Kgs	
Max table load (Kgs).....Vertical position	60Kgs	500Kgs	500Kgs	
AXES DRIVE MOTOR (FANUC/SIEMENS/HEIDENHAIN)				
X axis Servo Motor	α8/1FK7063/QSY155B	α22/1FK7083/QSY155C	α30/1FK7101/QSY190C	
Y axis Servo Motor	α8/1FK7063/QSY155B	α22/1FK7083/QSY155C	α30/1FK7101/QSY190C	
Z axis Servo Motor	α22/1FK7083/QSY155C	α22/1FK7083/QSY155C	α30/1FK7101/QSY190C	
Rotary Axis Servo Motor	α4/1FK7060/QSY116C	α8/1FK7063/QSY155B	α8/1FK7063/QSY155B	
Tilting Axis Servo Motor	α8/1FK7063/QSY116J	α22/1FK7083/QSY155B	α22/1FK7083/QSY155B	
SPINDLE				
Spindle motor	SIEMENS	1PH8105-7.5kw/45Nm	1PH8107-10.5kw/50Nm	1PH8133-15kw/96Nm
	HEIDENHAIN	QAN200L 7.5kw/47.8NM	QAN200U 10kw/63.7NM	QAN260M 15kw/96NM
	FANUC	αi18 (7.5KW/47.7Nm)	αi12 (11KW/70.0Nm)	αi15 (15KW/95.4Nm)
Taper size – standard	BT-40 (o.p. HSK-A63)	BT-40 (o.p. HSK-A63)	BT-40 (o.p. HSK-A63)	
Spindle Speed - Direct Drive	12000/15000/18000 rpm	12000/15000/18000 rpm	12000/15000/18000 rpm	
Spindle Speed - Built-in (Opt.)	HSKA63 / 20000/24000rpm	HSKA63 / 20000/24000rpm	HSKA63 / 20000/24000rpm	
Spindle Speed - Built-in (Opt.)	BT-30 / 30000rpm	BT-30 / 30000rpm	BT-30 / 30000rpm	
Spindle nose to table surface (mm/in)	100~450mm(3.9"~17.7")	100~600mm(3.9"~23.6")	100~600mm (3.9"~23.6")	
Spindle center to column surface (mm/in)	560mm(22")	785mm(30.9")	935mm(36.8")	
FEEDRATE				
Cutting feedrate(mm/min) for X,Y,Z	1~12,000 (Depending on controller)			
Min. input increment	0.001mm			
Rapid traverse rates (mm/min) X, Y, Z	30/30/20 M/min , Option 48/48/30 M/min			
C3 class Ballscrews (X/Y/Z) (Dia. x pitch)	40mmx12/40mmx12/40mmx10	40mmx12/40mmx12/40mmx12	50x12mm/50x12mm50x12mm	
Linear roller guide X/Y/Z axes (mm)	35x2set/35x2set/35x2set	45x2set/30x4set/45x2set	45x2set/30x6set/45x2set	
Machine Dimensions				
Size: Width x Length x Hight (cm/in)	260x250x200cm (102.4"x98.4"x78.7")	260x250x200cm (102.4"x98.4"x78.7")	320x280x350cm (126"x110"x137.8")	

GLG-50-5XT



GLG-70-5XT



GLG-80 5XT

