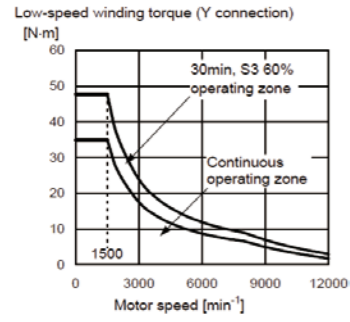
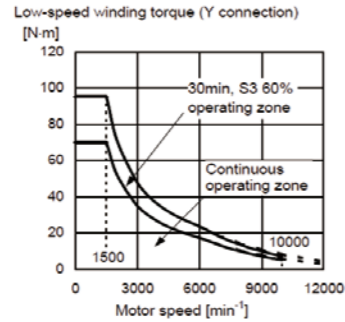


Cutting Capability

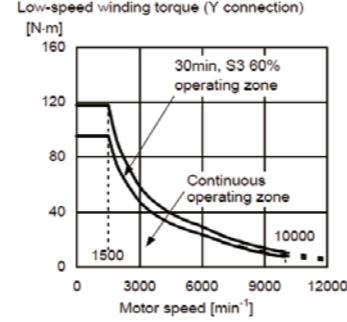
FANUCα6-12000rpm



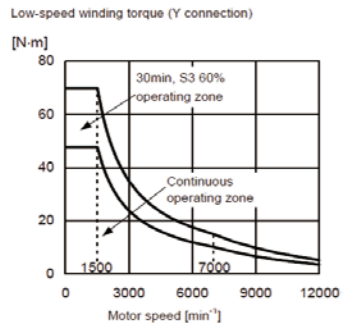
FANUCα12-10000rpm



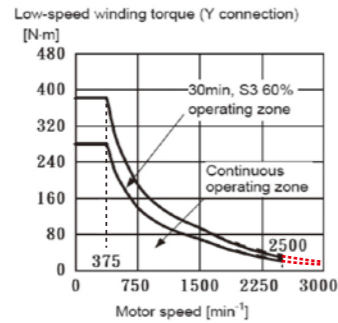
FANUCα15-10000rpm



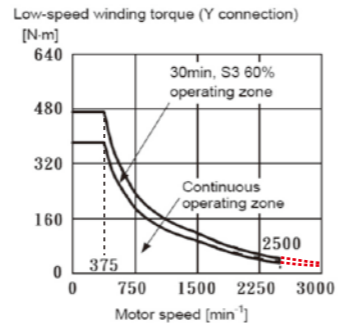
FANUCα8-12000rpm



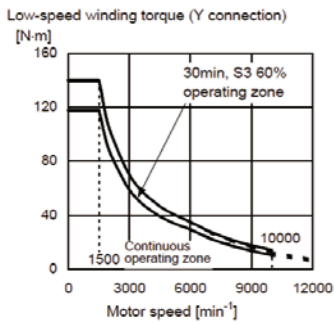
FANUCα12-10000rpm with Gear-Box(ratio 1:4)



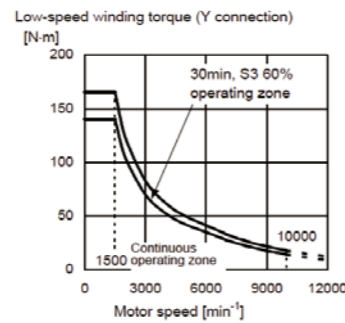
FANUCα15-10000rpm with Gear-Box(ratio 1:4)



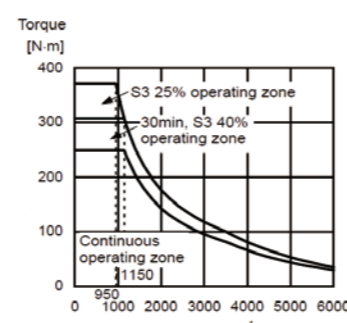
FANUCα18-10000rpm



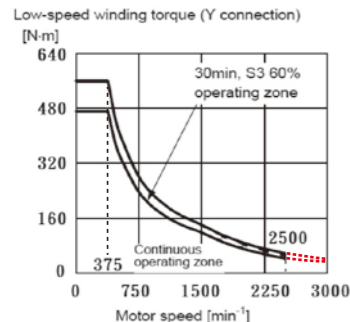
FANUCα22-10000rpm



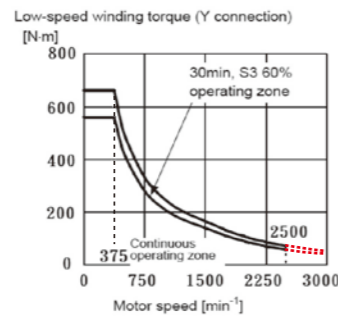
FANUCα30-6000rpm



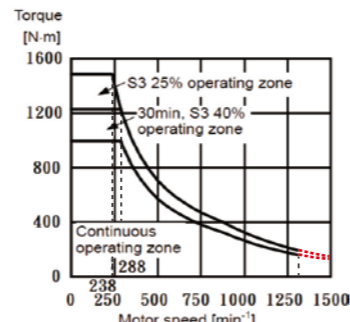
FANUCα18-10000rpm with Gear-Box(ratio 1:4)



FANUCα22-10000rpm with Gear-Box(ratio 1:4)



FANUCα30-6000rpm with Gear-Box(ratio 1:4)



FullLand®



FullLand®

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2020.03

Feature 4H+1R

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

**GLG series
 HIGH PERFORMANCE AND PRECISION
 CNC 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
 2008

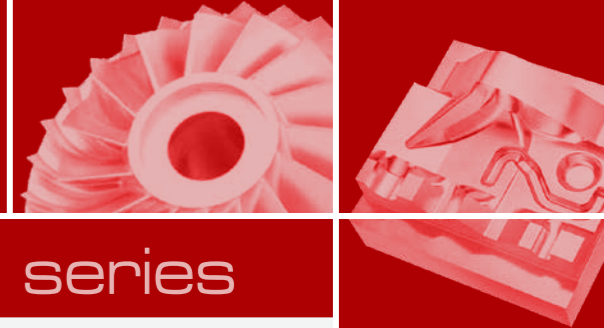
Mold making Car industry | 3C industry | Mechanical equipment | Aerospace industry



- 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)	GM-3 (2080)
TABLE			
Table size (L*W) (mm/inch)	1500*675 / 59.1**25.6"	2000*800 / 78.7**31.5"	1700*900 / 66.9**35.4" 2600*900 / 102.4**35.4"
X axis travel range (mm/inch)	1100 / 43.3"	1900 / 74.8"	1600 / 62.9" 2540 / 100"
Y axis travel range (mm/inch)	650 / 25.6"	800 / 31.5"	900 / 35.4" 900 / 35.4"
Z axis travel range (mm/inch)	720 / 28.3"	770 / 30.3"	850 / 33.4" 850 / 33.4"
Max table load (kg/lbs)	700 / 1560	1200 / 2670	200 / 4400 2000 / 4400
Spindle nose to table surface(Vertical) (mm/inch)	30~750 / 1.2**29.5"	30~800 / 1.2**31.5"	30~880 / 1.2**34.6"
Spindle center to table surface(Horizontal) (mm/inch)	275~995 / 10.8**39.1"	275~1045 / 10.8**41.1"	275~1125 / 10.8**44.3"
T slot (W*D*N mm)	18*100*7	18*100*8	18*100*8
ROTARY TABLE			
C axis D.D. Motor (FANUC / ETEL)	FANUC DiS250/250 (A06B-0495-B200) 200V Liquid cooling / ETEL TMB+0291-70	FANUC DiS500/250 (A06B-0495-B400) 200V Liquid cooling / ETEL TMB+0360-070	FANUC DiS1000/200 (A06B-0496-B300) 200V Liquid cooling / ETEL TMB+0530-070
Table diameter (mm/inch)	ø500 / ø19.7"	ø630 / ø24.8"	ø800 / ø31.5"
Center bore diameter (mm/inch)	ø60 / ø2.4"	ø60 / ø2.4"	ø60 / ø2.4"
Rotation speed (rpm)	22.2	40~50	80~100
Minimum index	0.001	0.001	0.001
Max table load (kg/lbs)	550 / 1225	900 / 2000	1500 / 3300
B axis rated torque (FANUC / SIEMENS / HEIDENHAIN)	α 12(12Nm)/1FK7063(11Nm)/QSY155B(13Nm)	α 12(12Nm)/1FK7083(16Nm)/QSY155C(17.7Nm)	α 12(12Nm)/1FK7083(16Nm)/QSY155C(17.7Nm)
C axis rated torque (Nm) (FANUC / ETEL)	225 / 356	520 / 554	840 / 1450
Built-in spindle			
Spindle taper	BT40 / BBT40 / HSK-A63	BT40 / BBT40 / HSK-A63	BT40 / BBT40 / HSK-A63
Spindle center to column (mm/inch)	750 / 29.5	850 / 33.4	900 / 35.4
Spindle speed (rpm)	15000	15000	15000
Motor type (FANUC / ATE)	FANUC Bii112S / ATE-170	FANUC Bii112L / ATE-180	FANUC Bii112L / ATE-180(OP)
Main motor (KW) (FANUC / ATE)	5.5-7.5 / 21-25	15-18.5 / 27-35	15-18.5 / 27-35
Motor torque (Nm) (FANUC / ATE)	44-60 / 69-83	95-167 / 93-113	95-167 / 93-113
SWING HEAD			
Drive type	WORM GEAR / OP D/D MOTOR TMB+0290-150	WORM GEAR / OP D/D MOTOR TMB+0290-150	WORM GEAR / OP D/D MOTOR TMB+0290-150
Reduction ratio	1 : 90	1 : 1	1 : 90 1 : 1
Tilting range (degree)	±120	±120	±120 ±120
Max speed (rpm)	16.7	40-50	16.7 40-50
Minimum unit	0.001	0.001	0.001 0.001
Working torque (Nm)	350	782	350 782
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)	24/24/24 (945/945/945)
Feed rate (X/Y/Z) m/min (inch/min)	10 (394)	10 (394)	10 (394)
Rated torque for X,Y,Z axes (FANUC / SIEMENS / HEIDENHAIN)	α 22(22Nm)/1FK7083(16Nm)/QSY155C(17.7Nm)	α 30(30Nm)/1FK7101(27Nm)/QSY190C(28Nm)	α 30(30Nm)/1FK7101(27Nm)/QSY190C(28Nm)
ACCURACY			
Positioning for XYZ axes (mm/inch)	0.005 / 0.0002	0.005 / 0.0002	0.005 / 0.0002
BC rotary (sec)-Undirectional	4"	4"	4"
Repeatability for XYZ axes (mm/inch)	0.005 / 0.0002	0.005 / 0.0002	0.005 / 0.0002
BC rotary (sec)-Bidirectional	8"	8"	8"
OTHER			
Air requirement (kg/cm)	6	6	6
Voltage	380	380	380
Power requirement (KVA)	40	50	50
Coolant tank capacity (L)	280	480	480
Machine weight (kg/lbs)	7200 / 16000	11000 / 24450	11000 / 24450
Floor space (L*W) m/inch	4*2.5 / 157.5*98.5	5.2*3 / 205*118.1	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	6.5*3*3.5 / 256*118.1*137.8

*All specifications and designs are subject to change without notice.



5 Axis Simultaneous Machining Center



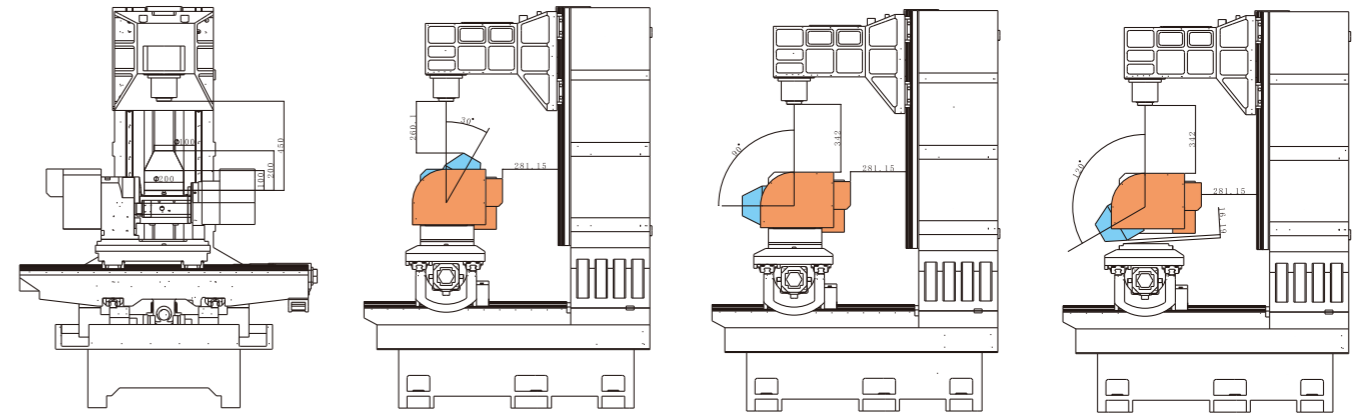
GLG series

SPECIFICATION

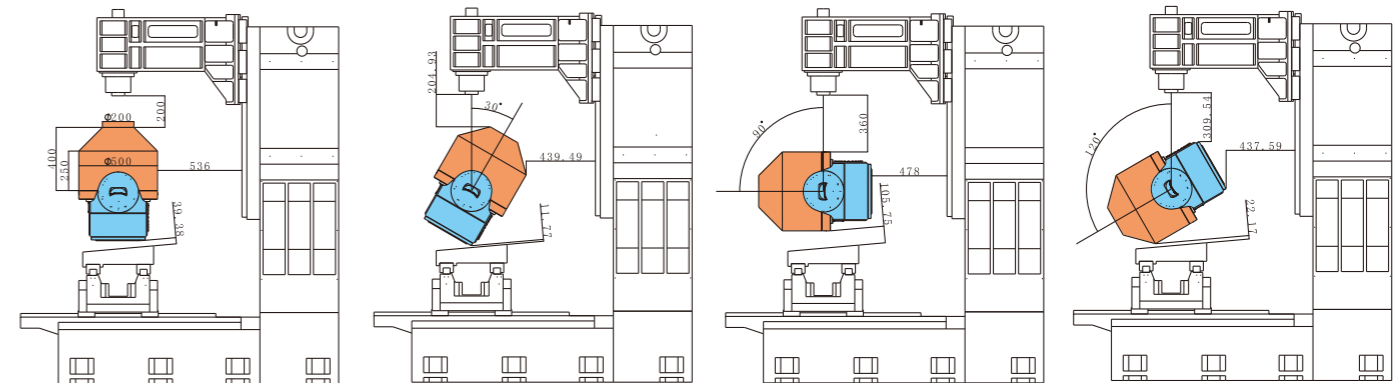
Description	GLG-50-5XT	GLG-70-5XT	GLG-80 5XT	
TRAVEL				
X axis (mm/inch)	600mm(23.6")	800mm(31.5")	900mm(35.4")	
Y axis (mm/inch)	500mm(19.7")	700mm(27.6")	800mm(31.5")	
Z axis (mm/inch)	450mm(17.7")	600mm(23.6")	600mm(23.6")	
TILTING TABLE Fix on X axis block		LCM from Italy	LCM from Italy	
Size: DIA (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")	

*All specifications and designs are subject to change without notice.

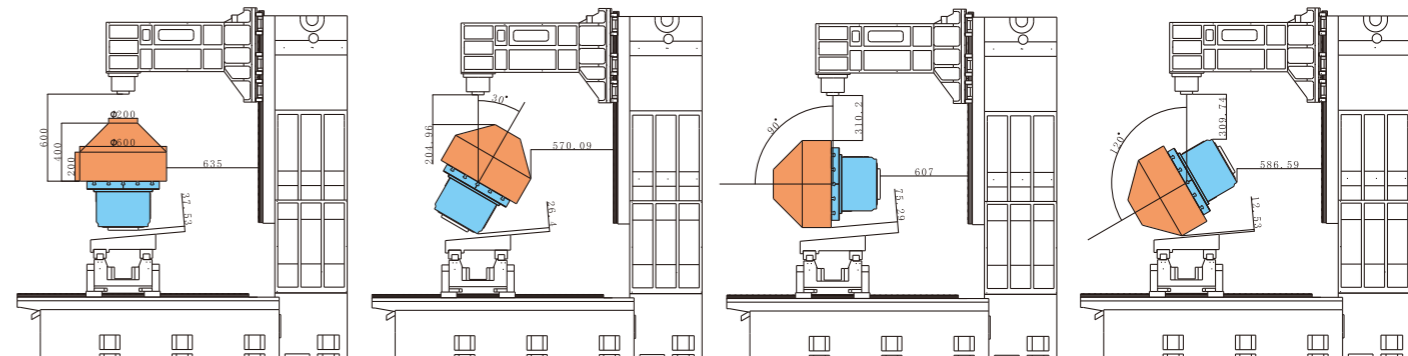
GLG-50-5XT



GLG-70-5XT



GLG-80 5XT



High-Performance design vertical machining center linear series

GLG series



GLG-610 760

TRAVEL

X:610 m/m(24")
Y:460 m/m(18.1")
Z:480 m/m(18.8")

TRAVEL

X:760 m/m(29.9")
Y:460 m/m(18.1")
Z:480 m/m(18.8")

860

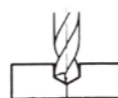
TRAVEL

X:860 m/m(33.8")
Y:480 m/m(18.8")
Z:500 m/m(19.6")



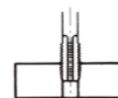
MILLING

Tool diameter 80 mm
6 tooth
Material S45
Spindle speed 1550 rpm
Feed rate 500 mm/min
Metal removal rate 150 cm³/min
Cutting depth 4 mm
Cutting wide 75 mm



DRILLING

Tool diameter 38 mm
Material S45
Spindle speed 1500 rpm
Feed rate 150 mm/min
Metal removal rate 170 cm³/min



TAPPING

Tool diameter M30x3.5
Material S45
Spindle speed 300 rpm

FANUC CONTROLLER

Convenient control Panel

- Swing control panel 0-90° rotation.
- Easy to edit program.
- Portable MPG for convenient operation.



GLG-1020

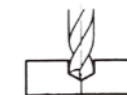
TRAVEL

X:1020m/m(40.1")
Y:530m/m(20.8")
Z:610 m/m(24")



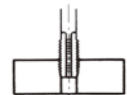
MILLING

Tool diameter 80 mm
6 tooth
Material S45
Spindle speed 1550 rpm
Feed rate 500 mm/min
Metal removal rate 150 cm³/min
Cutting depth 4 mm
Cutting wide 75 mm



DRILLING

Tool diameter 38 mm
Material S45
Spindle speed 1500 rpm
Feed rate 150 mm/min
Metal removal rate 170 cm³/min



TAPPING

Tool diameter M30x3.5
Material S45
Spindle speed 300 rpm

MITSUBISHI CONTROLLER

Convenient control Panel

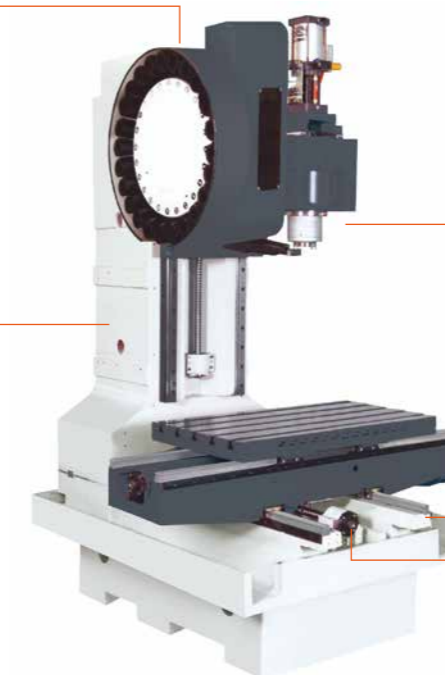
- Swing control panel 0-90° rotation.
- Easy to edit program.
- Portable MPG for convenient operation.

Speedy and Reliable A.T.C

- 16 Tools Armless Type (st)
Tool to Tool 7 Sec.
BT40 / BT50 / HSK 63A
- 24 / 30 Tools Arm Type (op)
Tool to Tool 2.5 Sec.
BT40 / BT50
- 32 / 40 Tools Chain Type (op)
Tool to Tool 1.8 Sec.
BT40/BT50

Rigid Configuration Design

- Mighty MEEHANITE casting of all major components.
- Structure is analyzed by CATIA CAM and FEA (Finite Element Analysis)
- Strong Structure to extend rigidity, machining performance and long machine life



High-efficiency Spindle

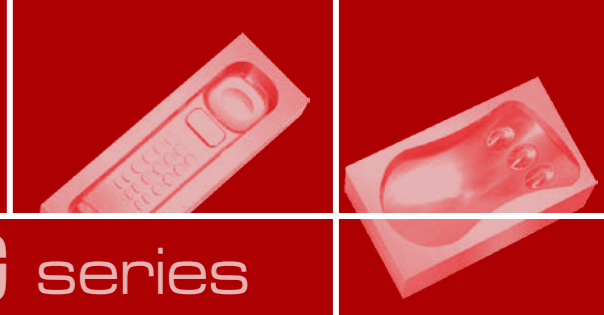
- Belt drive spindle speed 8,000rpm (standard) 10,000rpm (option)
- Direct drive spindle speed 10,000rpm & 12,000 / 15,000rpm
- Built-in spindle speed 18,000rpm / 24,000rpm(op)

Heavy-duty Linear guideways

- X,Y,Z-axes Ball Linear Guideway
- Guide rail with surface ground
- Ball track zones hardened
- Four guide blocks on each axis

Precision Ball Screws

- X,Y,Z-axis with preload large Dia.
 - ▶ 32mm pitch 12mm (st) GLG 850A
 - ▶ 40mm pitch 12mm (st) 16m/m (op) GLG 1000A
- Direct drive
- Design provides to reduce friction heat and thermal growth to maintain rigidity, stability.



GLG series

High-Performance design vertical machining center linear series



GLG-1170

TRAVEL
 X:1100 m/m (43.3")
 Y:700 m/m(27.5")
 Z:650 m/m(25.5")

GLG-1370

TRAVEL
 X:1300 m/m (51.1")
 Y:700 m/m(27.5")
 Z:650 m/m(25.5")

GLG-1575

TRAVEL
 X:1500 m/m (59")
 Y:750 m/m(29.5")
 Z:650 m/m(25.5")

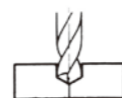
Convenient control Panel

- Swing control panel 0-90° rotation.
- Easy to edit program.
- Portable MPG for convenient operation.



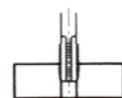
MILLING

Tool diameter 100 mm
 8 tooth
 Material S45
 Spindle speed 850 rpm
 Feed rate 790 mm/min
 Metal removal rate 405 cm³/min
 Cutting depth 5.7 mm
 Cutting wide 90 mm



DRILLING

Tool diameter 38 mm
 Material S45
 Spindle speed 1400 rpm
 Feed rate 200 mm/min
 Metal removal rate 227 cm³/min



TAPPING

Tool diameter M30x3.5
 Material S45
 Spindle speed 300 rpm

Speedy and Reliable A.T.C

- 16 Tools Armless Type (st)
 Tool to Tool 7 Sec.
 BT40 / BT50 / HSK 63A
- 24 / 30 Tools Arm Type (op)
 Tool to Tool 2.5 Sec.
 BT40 / BT50
- 32 / 40 Tools Chain Type (op)
 Tool to Tool 1.8 Sec.
 BT40/BT50

High-efficiency Spindle

- Belt drive spindle speed
 8,000rpm (standard)
 10,000rpm (option)
- Direct drive spindle speed (option)
 10,000rpm & 12,000 /
 15,000rpm
- Built-in spindle speed (option)
 18,000rpm/
 24,000rpm/
 30,000rpm

Precision Ball Screws

- X,Y,Z-axis with preload large Dia.
 40mm pitch 12mm (st) 16m/m (op)
- Direct drive and Double nuts
- Design provides to reduce friction heat and thermal growth to maintain rigidity, stability.

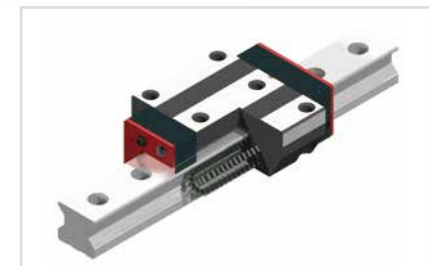


Rigid Configuration Design

- Mighty MEEHANITE casting of all major components.
- Structure is analyzed by CATIA CAM and FEA (Finite Element Analysis)
- Strong Structure to extend rigidity, machining performance and long machine life

Heavy-duty Four Linear guideways

- Averaged distributing heavy loading
- X,Y, Z-axes Roll Linear Guideway
- Guide rail with surface ground
- Ball track zones hardened
- X axis : 6 guide blocks
 Y axis : 8 guide blocks
 Z axis : 6 guide blocks



PRODUCT INSPECTION

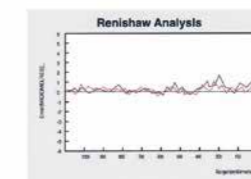


All machines are measured by laser equipment to attain high positioning and repeated accuracy with pitch and backlash compensation.
 Reference Standards: VDI 3441

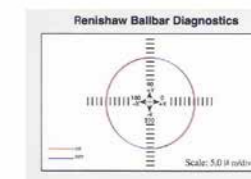


Testing the roundness by the ball bar tester.

100% pitch error inspected by Laser unit.



100% dynamic traverse inspected.



High-Performance design vertical machining center linear series

GLG series



GLG-1166

MITSUBISHI CONTROLLER Convenient control Panel

- Swing control panel 0-90° rotation.
- Easy to edit program.
- Portable MPG for convenient operation.

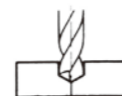
GLG-1166

TRAVEL
X:1100m/m(43.3")
Y:610m/m(24")
Z:610 m/m(24")



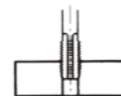
MILLING

Tool diameter 80 mm
6 tooth
Material S45
Spindle speed 1550 rpm
Feed rate 500 mm/min
Metal removal rate 150 cm³/min
Cutting depth 4 mm
Cutting wide 75 mm



DRILLING

Tool diameter 38 mm
Material S45
Spindle speed 1500 rpm
Feed rate 150 mm/min
Metal removal rate 170 cm³/min



TAPPING

Tool diameter M30x3.5
Material S45
Spindle speed 300 rpm

GLG-1266

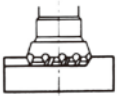
TRAVEL
X:1200 m/m (47.2")
Y:610 m/m(24")
Z:610 m/m(24")



GLG-1680

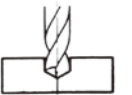
GLG-1680

TRAVEL
X:1600 mm (62.9")
Y:800 mm(31.4")
Z:730 mm(28.7")



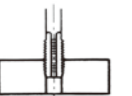
MILLING

Tool diameter 125 mm
8 tooth
Material S45
Spindle speed 850 rpm
Feed rate 800 mm/min
Metal removal rate 450 cm³/min
Cutting depth 5.7 mm
Cutting wide 100 mm



DRILLING

Tool diameter 38 mm
Material S45
Spindle speed 1400 rpm
Feed rate 200 mm/min
Metal removal rate 227 cm³/min



TAPPING

Tool diameter M36x4
Material S45
Spindle speed 300 rpm



GLG-1680



GLG-1890

TRAVEL

X:1800 mm (70.8")
Y:900 mm(35.4")
Z:730 mm(28.7")

GLG-2190

TRAVEL

X:2100 mm(82.6")
Y:900 mm(35.4")
Z:730 mm(28.7")

GLG-2590

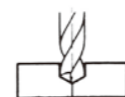
TRAVEL

X:2500 mm(98.4")
Y:900 mm(35.4")
Z:730 mm(28.7")



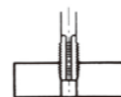
MILLING

Tool diameter 125 mm
8 tooth
Material S45
Spindle speed 850 rpm
Feed rate 800 mm/min
Metal removal rate 450 cm³/min
Cutting depth 5.7 mm
Cutting wide 100 mm



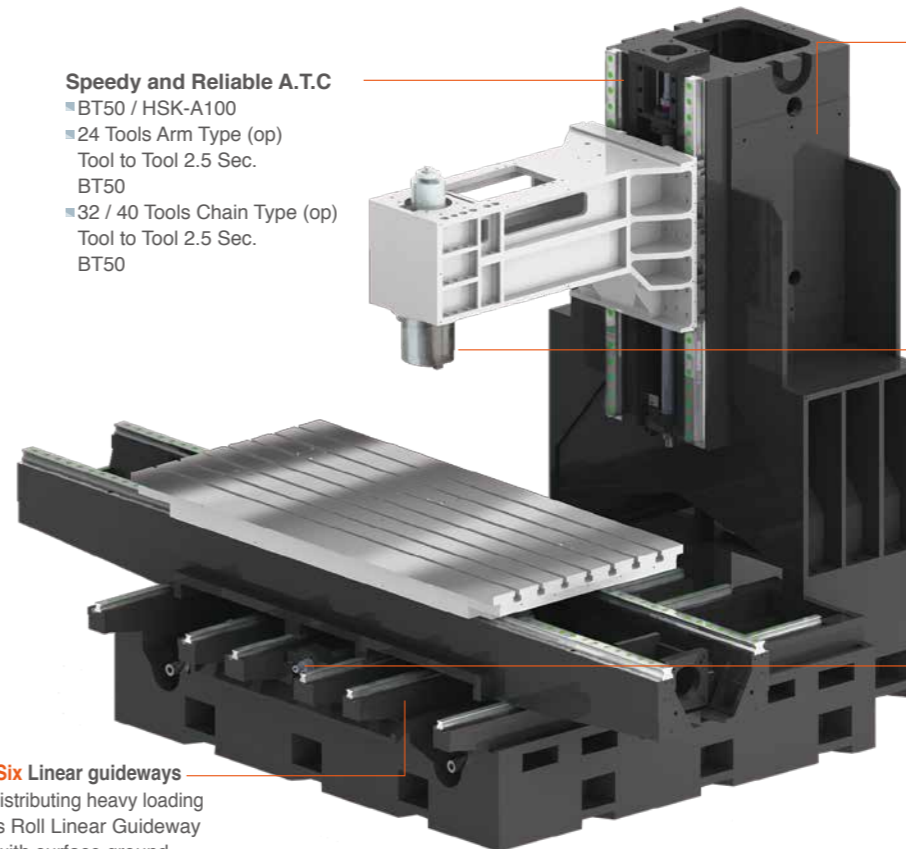
DRILLING

Tool diameter 38 mm
Material S45
Spindle speed 1400 rpm
Feed rate 200 mm/min
Metal removal rate 227 cm³/min



TAPPING

Tool diameter M36x4
Material S45
Spindle speed 300 rpm



Speedy and Reliable A.T.C

- BT50 / HSK-A100
- 24 Tools Arm Type (op)
Tool to Tool 2.5 Sec.
BT50
- 32 / 40 Tools Chain Type (op)
Tool to Tool 2.5 Sec.
BT50

Rigid Configuration Design

- Mighty MEEHANITE casting of all major components.
- Structure is analyzed by CATIA CAM and FEA (Finite Element Analysis)
- Strong Structure to extend rigidity, machining performance and long machine life

High-efficiency Spindle

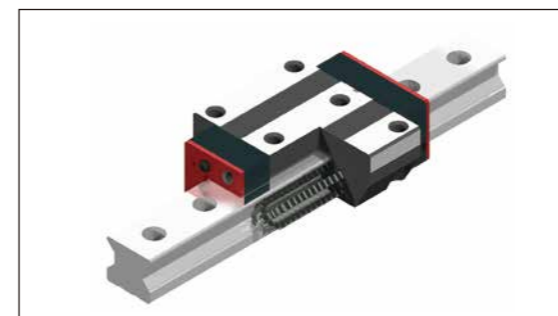
- Belt drive spindle speed 8,000rpm (standard) 10,000rpm (option)
- Direct drive spindle speed (option) 10,000rpm & 12,000rpm
- Built-in spindle speed (option) 18,000rpm/ 24,000rpm/ 30,000rpm

Precision Ball Screws

- X,Y,Z-axis with preload large Dia. 50mm pitch 12mm (st) 16m/m (op)
- Direct drive and Double nuts
- Design provides to reduce friction heat and thermal growth to maintain rigidity, stability.

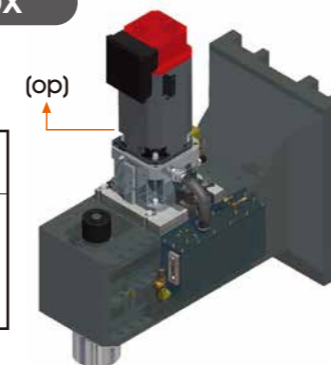
Heavy-duty Six Linear guideways

- Averaged distributing heavy loading
- X, Y, Z-axes Roll Linear Guideway
- Guide rail with surface ground
- Ball track zones hardened
- X axis : 6 guide blocks
- Y axis : 12 guide blocks
- Z axis : 6 guide blocks

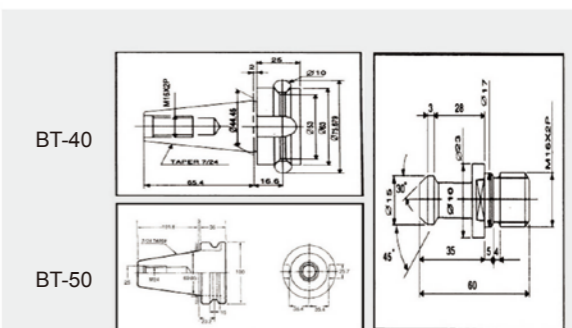


2 SPEED GEAR BOX

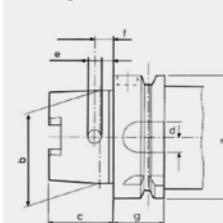
Spindle drive motor
(α 22i+2 speed gear box)-1:4
560 NM
→In low spindle speed 1500rpm
140 NM
→In high spindle speed
8,000~10,000rpm



TOOL HOLDER & PULL STUD



HSK



size	model	63A	100A
a		63	100
b		48	75
c		32	50
d		12.54	20.02
e		7.5	12
f		9	15
g		26	29

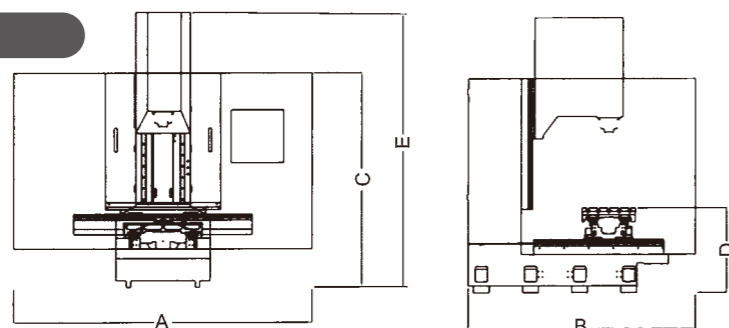
SPECIFICATION

ITEM	UNIT	GLG-610	GLG-860	GLG-1020	GLG-1166	GLG-1266	GLG-1170	GLG-1370	GLG-1575	GLG-1680	GLG-1890	GLG-2190	GLG-2590	
TABLE														
Table Size	MM(inch)	700x 460 (27.5" x 18.1")	960 x 460 (37.7"x18.1")	1100 x 510 (43.3"x20")	1200 x 560 (47.2"x22")	1300 x 560 (51.1"x22")	1200 x 650 (47.2"x25.5")	1400 x 650 (55.1"x25.5")	1600 x 650 (62.9"x25.5")	1700 x 800 (66.9"x31.4")	1900 x 800 (74.8"x31.4")	2200 x 800 (86.6"x31.4")	2600 x 800 (102.3"x31.4")	
Working Area	MM(inch)	610x 460 (24" x 18.1")	860 x 480 (33.8"x18.8")	1020x530 (40.1"x20.8")	1200x600 (47.2"x23.6")	1300x600 (51.1"x23.6")	1100 x 650 (43.3"x25.5")	1200 x 700 (47.2"x27.5")	1500 x 750 (59.1"x29.5")	1600 x 800 (62.9"x31.4")	1800 x 900 (70.8"x35.4")	2100 x 900 (82.6"x35.4")	2500 x 900 (98.4"x35.4")	
Tee slots (CD x W x NO)	MM	CD100 x 18 x 3	CD 100x18x3	CD 100x18x4	CD 100x18x5	CD 100x18x5	CD 100x18x5	CD 100x18x5	CD 100x18x5	CD 100x18x5	CD 100x18x8	CD 100x18x8	CD 100x18x8	
Table load (maximum)	KG(lbs)	300(660)	600(1320)	800(1760)	900(1980)	1000(2200)	1100(2420)	1300(2860)	1500(3300)	2000(4400)	2500(5500)	3000(6600)	4000(8800)	
TRAVEL														
X-axis	MM(inch)	610(24")	860(33.8")	1020(40.1")	1100(43.3")	1200(47.2")	1100(43.3")	1300(51.1")	1500(59.1")	1600(62.9")	1800(70.8")	2100(82.6")	2500(98.4")	
Y-axis	MM(inch)	460(18.1")	480(18.8")	530(20.8")	610(24")	610(24")	700(27.5")	700(27.5")	750(29.5")	800(31.4")	900(35.4")	900(35.4")	900(35.4")	
Z-axis	MM(inch)	480(18.8")	500(19.6")	610(24")	610(24")	610(24")	650(25.5")	650(25.5")	650(25.5")	700(27.5")	730(28.7")	730(28.7")	730(28.7")opt	
Spindle nose to table surface	MM(inch)	100-580 (3.9"-22.8")	100-600 (3.9"-23.6")	100-710 (3.9"-27.9")	100-710 (3.9"-27.9")	100-710 (3.9"-27.9")	100-750 (3.9"-29.5")	100-750 (3.9"-29.5")	100-750 (3.9"-29.5")	110-840 (5.1"-35.8")	110-840 (5.1"-35.8")	110-840 (5.1"-35.8")	110-840 (5.1"-35.8")	
Spindle center to column surface	MM(inch)	500(19.6")	520(20.4")	550(21.6")	645(25.4")	645(25.4")	765(30")	765(30")	765(30")	965(37.9")	965(37.9")	965(37.9")	965(37.9")	
X.Y.Z. Axis Ball screws dia	MM	32/12 Pitch-16mm(opt)	32xpitch12	40xpitch12	40xpitch12	40xpitch12	40xpitch12	40xpitch12	40xpitch12	50xpitch12	50xpitch12	50xpitch12	50xpitch12	
SPINDLE														
Spindle taper		BT30 / BT40	BT 40 / CAT 40				BT 40 / CAT 40 (opt: BT 50)				BT 50 / CAT 50			
Spindle speed - standard access	RPM	BT30 / 12,000 / opt 15,000 (Belt drive) Direct drive 15,000/20,000 rpm												
Compatible with various types of spindles	Belt Drive	BT40 8,000 / 10,000 / 12,000				BT50 8,000 / 10,000				8,000(std)/ 10,000(opt)-Belt drive				
	Direct Drive	opt BT40 10,000/12,000/15,000-Direct drive				BT50 10,000/12,000-Direct drive				opt 8,000 / 10,000 / 12,000 rpm-Direct drive				
	Built-in Drive	opt BT40 16,000/20,000/24,000/30,000-Built in				BT 50 12,000/15,000/20,000 - Built in				opt 12,000/ 15,000 rpm -Built-in				
FEEDRATE														
Cutting Feedrate (X, Y, Z axis)	MM/MIN	1-10000(Depending Controller)				1-10000(Depending Controller)				1-10000(Depending Controller)				
3Axes Slideways		LINEAR BALL SLIDE				LINEAR BALL SLIDE, opt: LINEAR ROLL SLIDE								
Rapid Traverse Rates (X/Y/Z axis)	MM/MIN	30/30/24 / opt 48/48/24				30/30/24				24/24/24				
ATC														
Capacity-standard access.	PCS	16(Armless)				24 (Arm)				24(Arm)				
Capacity-optional access.(ARM)	PCS	24/30(Arm), 32/40(Chain Type)				32/40(Chain Type), 30(Arm)				32/40(Chain Type)				
Tool Selection		Bi-directional & min. path				Bi-directional & min.path								
Maximum tool diameter x length	MM(inch)	Armless: 80 x 250 (3.1"x9.8")				Armless Type: 80 x 250(3.1"x9.8"), Arm Type: 80 x 250(3.1"x9.8")								
Maximum tool weight	KG(lbs)	Armless6(13.2) / Arm 8(17.6)				Armless 6(13.2) / Arm 8(17.6)								
Air Power required		6kg / cm ²				6KG/cm ²								
Tool Shank		BT30/ISO30/BT40/ISO40/CAT40				BT40, ISO40 or CAT40 (Option)				BT50, ISO50 or CAT50				
MOTOR														
Spindle drive Motor	KW(HP)	Std: 5.5/7.58KW 7.5HP	Std: 7.5KW(10HP), opt:11KW(15HP)				Std: 7.5KW(10HP), opt: 11KW(15HP)				Std: 15KW(20HP), opt: 2 speed gear box 11KW(15HP)			
LINEAR BALL SLIDE														
X/Y/Z axis		25x2sets / 30x2sets/30x2sets	30x2sets/30x2sets/30x2sets	35x2sets/35x2sets/35x2sets			45x2sets/30x4sets/45x2sets			45x2sets/45x2sets/45x2sets	45x2sets/30x6sets/45x2sets			
Carriage guide block-per axis		4 / 4 / 4 blocks				6 / 8 / 6 blocks				6 / 6 / 6 blocks	6 / 12 / 6 blocks			
Coolant Pump	HP	1/2												
Power Supply		15KVA	15KVA	20KVA	20KVA	20KVA	STD: 20KVA		25KVA	30KVA	35KVA		40KVA	
NET WEIGHT	KG(lbs)	3500(7700)	4500(9900)	5300(11660)	5300(11660)	5300(11660)	6600(14520)	7100(15620)	7500(16500)	12500(27500)	13500(29700)	17200(37840)	21000(46200)	
DIMENSION														
A	cm	260	270	272	280	280	295	295	380	540	590	630	750	
B	cm	190	212	218	218	218	225	233	233	250	250	250	310	
C	cm	180	180	180	180	180	190	200	200	210	210	210	210	
D	cm	80	80	84	84	84	84	84	84	86	86	86	86	
E (Belt/Direct Spindle)	cm	272/282	272/282	272/282	272/282	272/282	310/320	310/320	310/320	330/340	330/340	330/340	330/340/opt 380	

Remarks: If Chain Type ATC installed, the max. tool dia. is 75mm when full pocket.

*All specifications and designs are subject to change without notice.

DIMENSION



STANDARD ACCESSORIES

- Tool Box
- Call Light
- Work Lamp
- Belt Drive 8000rpm
- Chip Enclosure
- Coolant System
- Guideway Cover
- Draw-type Chip tank/water tank
- Screw type chip conveyer- GLG-1020/1070/1100/1270/1570/1680/1890/2090
- Cutting Air Blast
- Auto Lube System
- Leveling Blocks And Bolt
- Armless ATC 16T for all
- Mechanical, Electrical & Operating Manual
- Spindle Cooling System for GLG-1020/1070/1100/1270/1570/1680/1890/2090

OPTIONAL ACCESSORIES

- a. CE
- b. Transformer
- c. Flood Coolant
- d. Belt drive 10000/(GLG-610,760,860,1020)12000 rpm
- d-1. Direct drive Spindle BT40/HSK63A: 10000/12000/15000/18000 rpm
- BT50/HSK100A: 8000/10000/12000 rpm
- d-2. Built-in drive Spindle BT40/HSK63A: 18000/24000/30000 rpm
- BT50/HSK100A: 8000/10000/12000 rpm
- e. Coolant Thru Spindle
- f. 4th Axis Rotary Table
- g. Coolant Thru Tool Tip
- h. Chip Conveyor System
- i. TS27R Tool Setting Probe (Length Measurement)
- j. MP10/12 Inspection Probe Kits
- k. ARMLESS A.T.C.: 20/24 TOOLS
- l. ARM Type ATC: BT40 24 Tools/ 30 Tools/ 40 Tools
- BT50 24 Tools/ 30 Tools
- m. A.T.C. (CHAIN TYPE) Tool to Tool (1.8sec)
- o. ZF 2 Speed Gear Box for spindle
- p. Spindle Cooling System
- q. Tailstock & Chuck
- r. Laser tool measuring
- s. Screw Type Chip Conveyor(GLG-610,760,860)