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GL Series Fixed Beam Gantry Machining Center

GMC Series Fixed Beam Gantry Machining Center

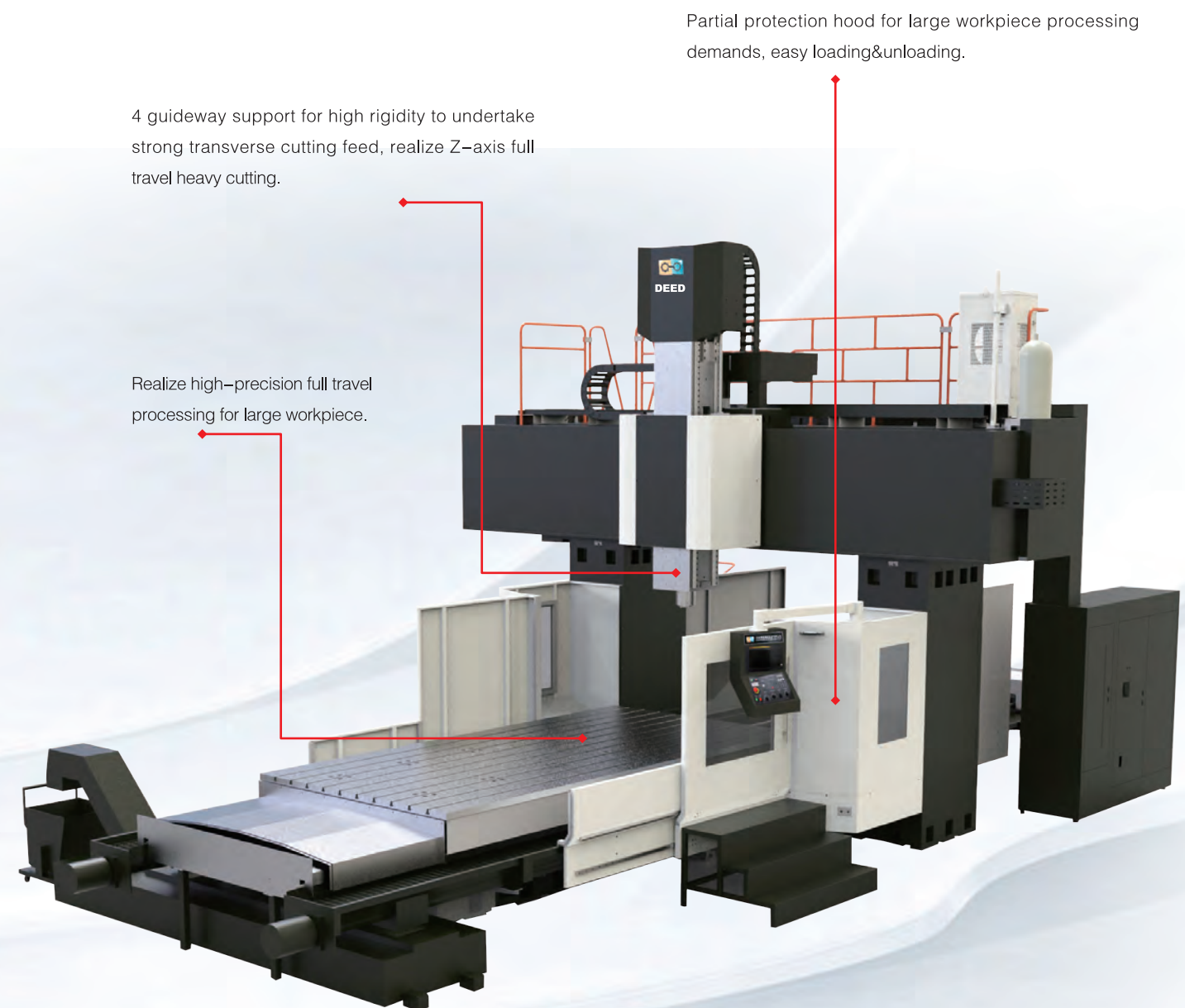
Global service centers



GL series

Cost-effective Gantry Machining Center

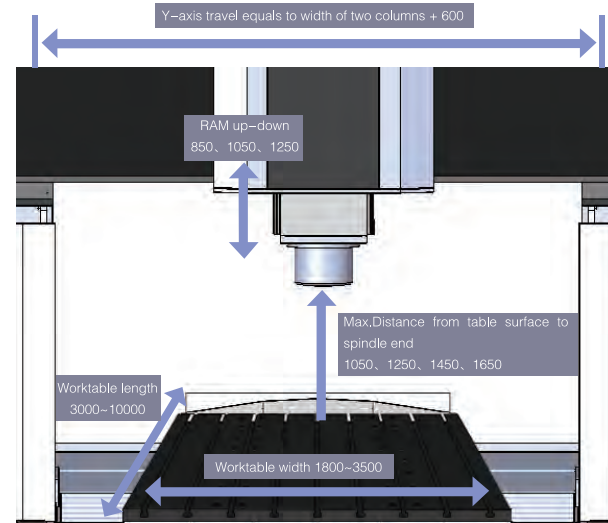
GL Series are designed with high rigidity headstock in square-ram structure for stable and strong cutting performance. This series can be widely used in various large structural components manufacture industries for large mould, rail transit, engineering machinery and wind power etc.



High Rigidity Design for Full Travel Processing

Machine bed and columns are casted by new material and new technology of UHPC from Germany. Compared to normal grey casting, they can get better vibration absorption, lower heat expansivity and lower thermal conductivity.

Machine beam, slider and headstock are welded in steel-board welding technology from Germany, they can get higher rigidity, lighter moving parts, less movement inertia, then the machine can get better response rate and movement precision.



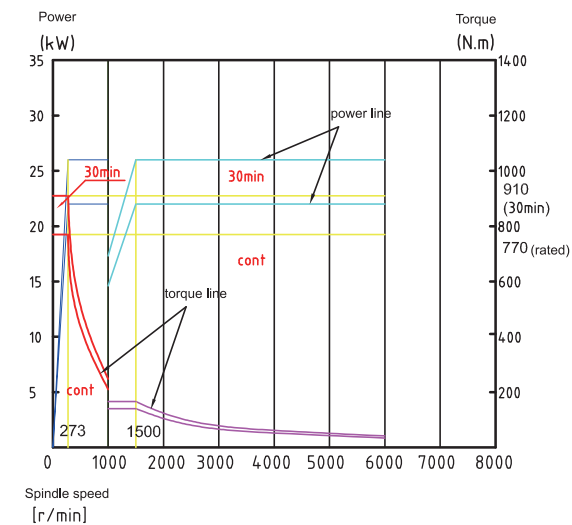
Direct-drive Spindle

High rigidity direct-drive spindle, with 4 spindle bearings in front and 1 roller bearing in back side, can realize cutting in high speed and large span.



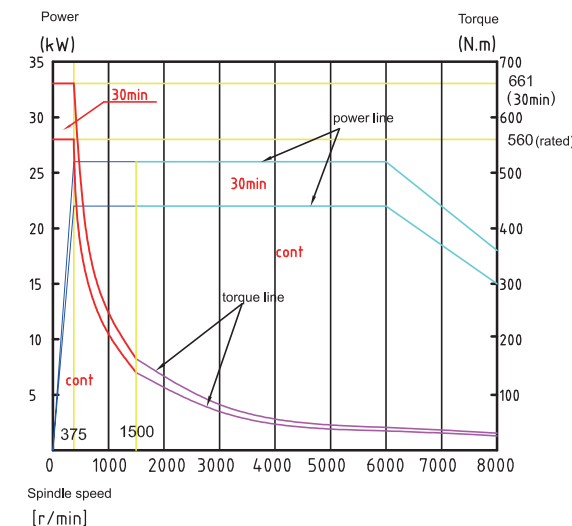
Standard 6000 r / min spindle

Spindle speed : 6000 r/min
Standard : 22/26 kW
Spindle Torque : 770/ 910 Nm
Cutting Speed : 10 m/min

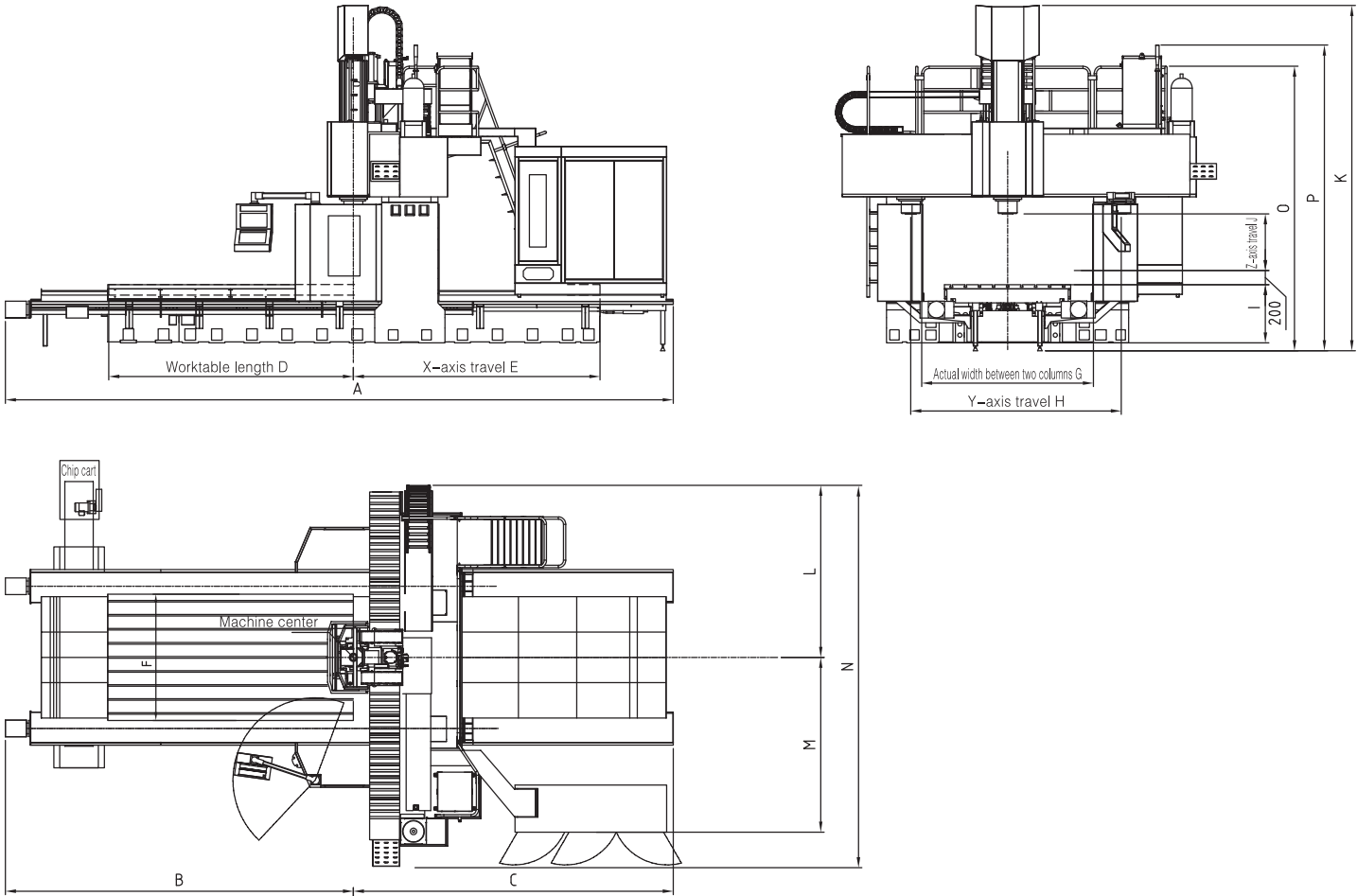


Standard 8000 r / min spindle

Spindle speed : 8000 r/min
Standard : 22/26 kW
Spindle Torque : 560/661 Nm
Cutting Speed : 12 m/min



Overall Dimension



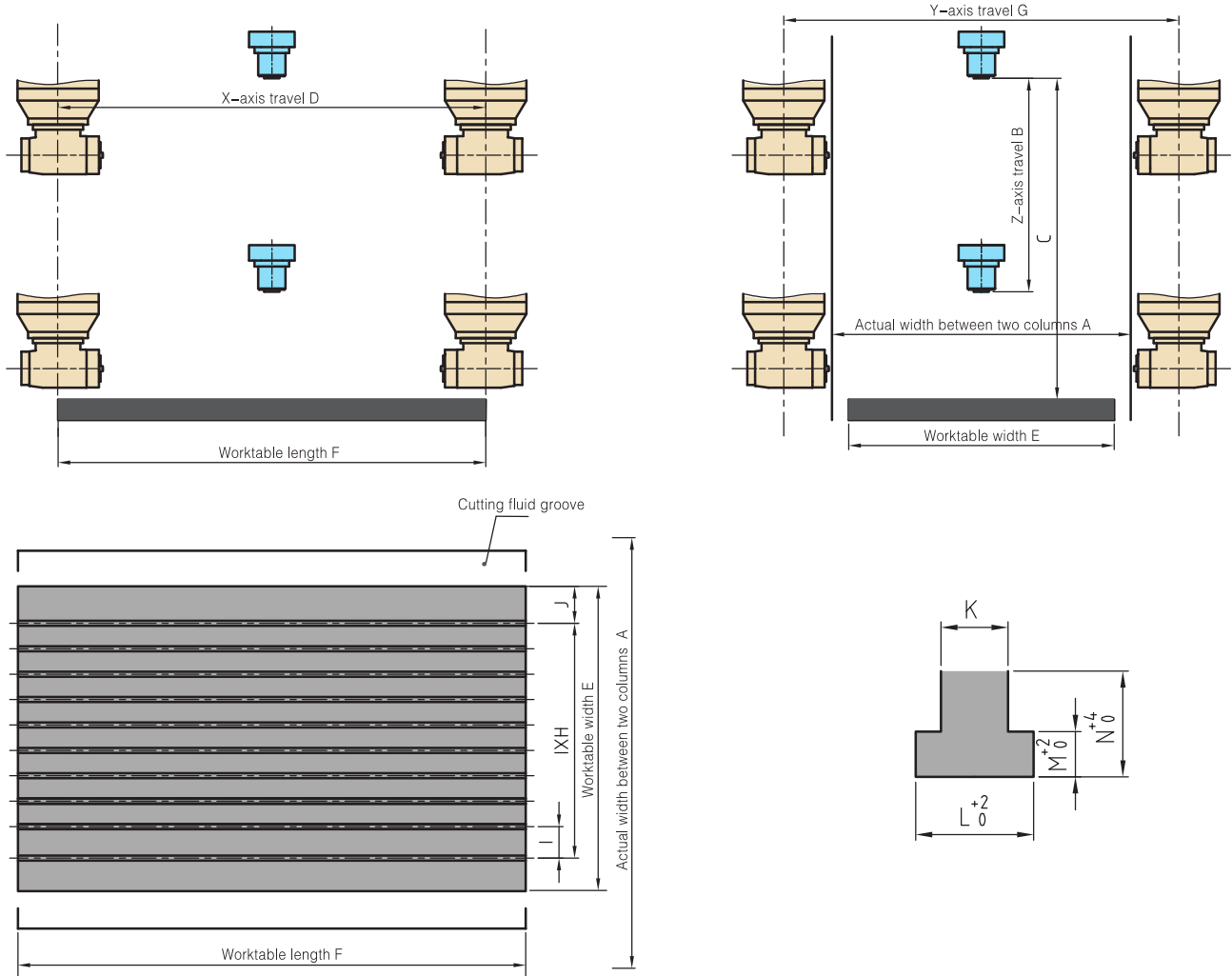
Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	weight T
G3524L	10800	6240	4560	3500	3500	1800	2400	3000	830	850	5000	2450	2490	5800	3700	4200	33
G6532L	16800	9000	7800	6500	6500	2800	3200	3800	1050	1050	5900	2950	2890	6500	5200	5270	67

Standard Configuration

CNC Controller: Fanuc OI MF(1)
2-level Gearbox
Z-axis hydraulic balance system
Spindle constant-temp cooling system
Pneumatic, hydraulic, centralized lubrication system
Auto chip removing system
Partial Protection Hood

Workpiece water cooling system
Air Gun
Tricolour Light, working light
Standard accessories and files
Foundation setting accessories
Common maintenance tools

Process Range



Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N
G3524L	2400	850	1050	3500	1800	3500	3000	9	200	100	22	37	16	38
G6532L	3200	1050	1250	6500	2800	6500	3800	14	200	200	22	37	16	38

Options

CNC controller: Fanuc 31i; Siemens 828D/848DsI
Disk-type ATC 24T/30T
Chain-type ATC 32T/40T
Vertical-horizontal ATC 40T/60T
Column height increase by 200mm
Z-axis travel extend by 200mm
CTS
Full protection hood/closed cover
Full-loop linear scale

Manual milling head
Auto milling head
Auto milling head magazine
Manual milling head magazine
Workpiece auto measure device
Tool auto measure device
Water Gun
Spindle outside coolant

Technical specifications		G3024L	G3524L	G4024L	G4524L	G4028L	G4528L
Travel							
Distance between columns	mm	2400	2400	2400	2400	2800	2800
X-axis	mm	3000	3500	4000	4500	4000	4500
Y-axis (processing travel)	mm	3000	3000	3000	3000	3400	3400
Z-axis	mm	850 (1050)	850 (1050)	850 (1050)	850 (1050)	1050 (1250)	1050 (1250)
Distance from table surface to spindle nose	mm	200–1050 (200–1250)	200–1050 (200–1250)	200–1050 (200–1250)	200–1050 (200–1250)	200–1250 (200–1450)	200–1250 (200–1450)
Worktable							
Worktable width	mm	1800	1800	1800	1800	2200	2200
T-slot	mm	22	22	22	22	22	22
Load capacity	t	15	16	18	20	20	22
Spindle							
Spindle type		Direct Drive + Gear Reducer	Direct Drive + Gear Reducer	Direct Drive + Gear Reducer	Direct Drive + Gear Reducer	Direct Drive + Gear Reducer	Direct Drive + Gear Reducer
Spindle taper		BT50	BT50	BT50	BT50	BT50	BT50
Spindle speed	rpm	8000	8000	8000	8000	6000	6000
Spindle power	kW	22/26	22/26	22/26	22/26	22/26	22/26
Torque	N.m	560/661	560/661	560/661	560/661	770/910	770/910
Spindle box section	mm	400 × 400	400 × 400	400 × 400	400 × 400	450 × 450	450 × 450
Feedrate							
Rapid traverse X	m/min	16	16	16	16	12	12
Rapid traverse Y	m/min	16	16	16	16	12	12
Rapid traverse Z	m/min	16	16	16	16	12	12
Cutting speed	m/min	8	8	8	8	8	8
ATC(option)							
ATC type		disk/chain/V&H	disk/chain/V&H	disk/chain/V&H	disk/chain/V&H	disk/chain/V&H	disk/chain/V&H
ATC capacity		24/32/40	24/32/40	24/32/40	24/32/40	24/32/40/60	24/32/40/60
Tool holder type		BT50	BT50	BT50	BT50	BT50	BT50
ISO accuracy GB (20±0.5℃)							
Positioning X	mm	0.024	0.027	0.028	0.031	0.028	0.031
Positioning Y	mm	0.024	0.024	0.024	0.024	0.026	0.026
Positioning Z	mm	0.02	0.02	0.02	0.02	0.02	0.02
Repeatability X	mm	0.016	0.017	0.018	0.02	0.018	0.02
Repeatability Y	mm	0.016	0.016	0.016	0.016	0.017	0.017
Repeatability Z	mm	0.008	0.008	0.008	0.008	0.008	0.008
Others							
Power	kVA	50	50	50	50	50	50
Air pressure	kgf/cm²	6.5	6.5	6.5	6.5	6.5	6.5
Height	mm	5000	5000	5000	5000	5900	5900
Floor area	mm × mm	9800X5800	10800X5800	11800X5800	12800X5800	11800X6600	12800X6600
Net weight	t	30	33	36.5	40	45	47
Controller		FANUC/SIEMENS					

Technical specifications		G5532L		G6532L	G6537L	G8537L	G10537L
Travel							
Distance between columns	mm	3200	3200	3700	3700	3700	
X-axis	mm	5500	6500	6500	8500	10500	
Y-axis (processing travel)	mm	3800	3800	4200	4200	4200	
Z-axis	mm	1050 (1250)	1050 (1250)	1050 (1250)	1050 (1250)	1050 (1250)	
Distance from table surface to spindle nose	mm	200–1250 (200–1450)	200–1250 (200–1450)	200–1250 (200–1450)	200–1250 (200–1450)	200–1250 (200–1450)	
Worktable							
Worktable width	mm	2800	2800	3500	3500	3500	
T-slot	mm	22	22	28	28	28	
Load capacity	t	28	32	32	36	40	
Spindle							
Spindle type		Direct Drive + Gear Reducer	Direct Drive + Gear Reducer	Direct Drive + Gear Reducer	Direct Drive + Gear Reducer	Direct Drive + Gear Reducer	
Spindle taper		BT50	BT50	BT50	BT50	BT50	
Spindle speed	rpm	6000	6000	6000	6000	6000	
Spindle power	kW	22/26	22/26	22/26	22/26	22/26	
Torque	N.m	770/910	770/910	770/910	770/910	770/910	
Spindle box section	mm	450 × 450	450 × 450	450 × 450	450 × 450	450 × 450	
Feedrate							
Rapid traverse X	m/min	12	12	10	10	10	
Rapid traverse Y	m/min	12	12	12	12	12	
Rapid traverse Z	m/min	12	12	12	12	12	
Cutting speed	m/min	8	8	6	6	6	
ATC(option)							
ATC type		disk/chain/V&H	disk/chain/V&H	disk/chain/V&H	disk/chain/V&H	disk/chain/V&H	
ATC capacity		24/32/40/60	24/32/40/60	24/32/40/60	24/32/40/60	24/32/40/60	
Tool holder type		BT50	BT50	BT50	BT50	BT50	
ISO accuracy GB (20±0.5℃)							
Positioning X	mm	0.035	0.039	0.039	0.047	0.055	
Positioning Y	mm	0.028	0.028	0.029	0.029	0.029	
Positioning Z	mm	0.02	0.02	0.02	0.02	0.02	
Repeatability X	mm	0.022	0.024	0.024	0.029	0.034	
Repeatability Y	mm	0.018	0.018	0.019	0.019	0.019	
Repeatability Z	mm	0.008	0.008	0.008	0.008	0.008	
Others							
Power	kVA	50	50	50	50	50	
Air pressure	kgf/cm²	6.5	6.5	6.5	6.5	6.5	
Height	mm	5900	5900	6100	6100	6100	
Floor area	mm × mm	14800X7000	16800X7000	16800X7500	20800X7500	24800X7500	
Net weight	t	63	67	86	102	118	
Controller		FANUC/SIEMENS					

GMC series

High performance Gantry Machining Center

GMC series are designed for mould production, with 3-axis linear guideway and high speed motorized spindle, the machines can be widely used in precise moulds manufacture industries.

4 guideway support for high rigidity to undertake strong transverse cutting feed, realize Z-axis full travel heavy cutting.

Safety operating space with closed cover(except top cover); inclined inner hood for less chips stacking.

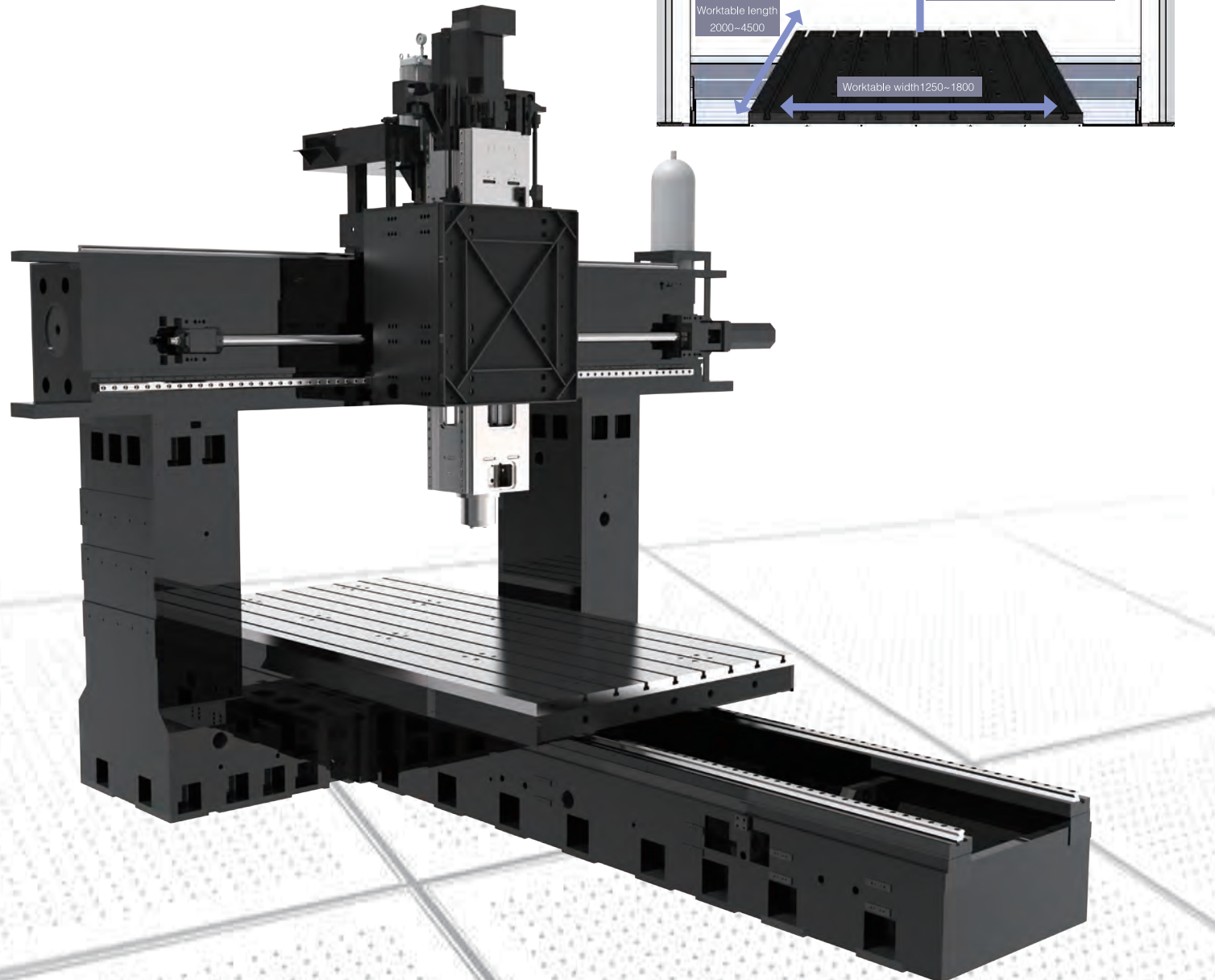
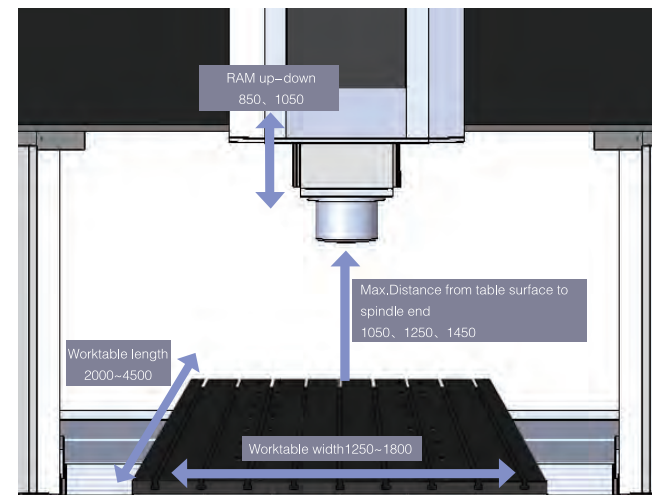
All side inspection windows make it convenient for operators to observe the processing.



High Rigidity Design for Full Travel Processing

Machine bed and columns are casted by new material and new technology of UHPC from Germany. Compared to normal grey casting, they can get better vibration absorption, lower heat expansivity and lower thermal conductivity.

Machine beam, slider and headstock are welded in steel-board welding technology from Germany, they can get higher rigidity, lighter moving parts, less movement inertia, then the machine can get better response rate and movement precision.

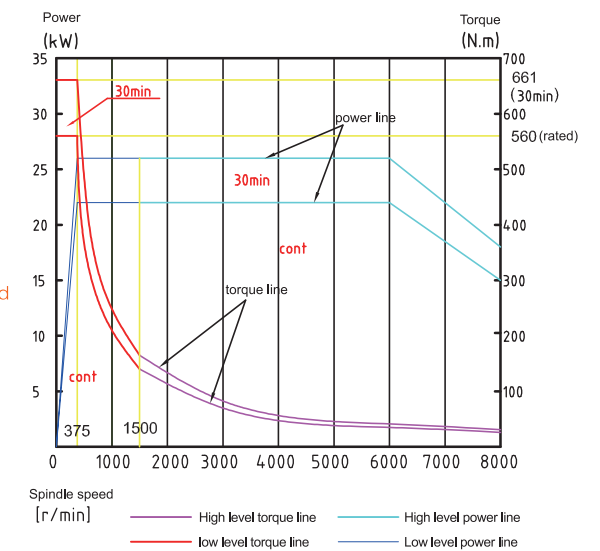


Direct-drive Spindle



Standard 8000 r / min spindle speed

spindle speed : 8000 r/min
main motor power : 22/26 kW
spindle torque : 560/661Nm
cutting speed : 12 m/min



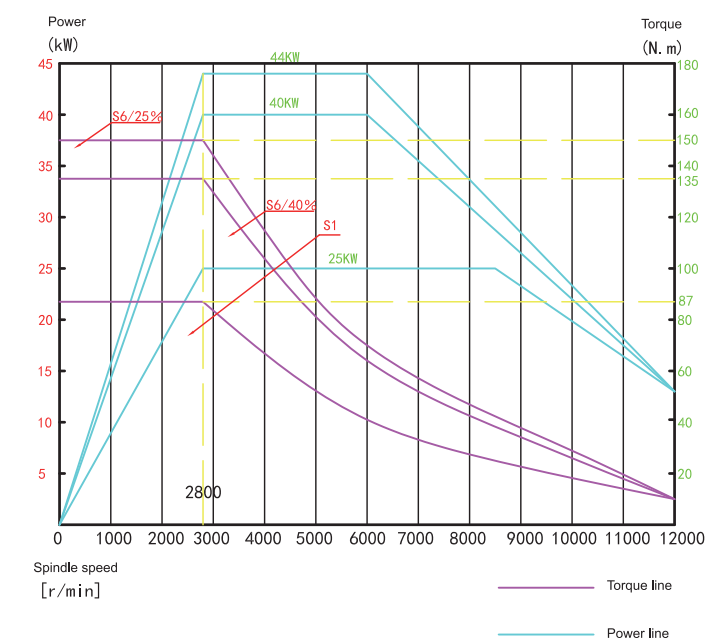
Motorized Spindle

High speed motorized spindle, with air-oil lubricated bearings for precise feeding and compressed air for heat releasing.

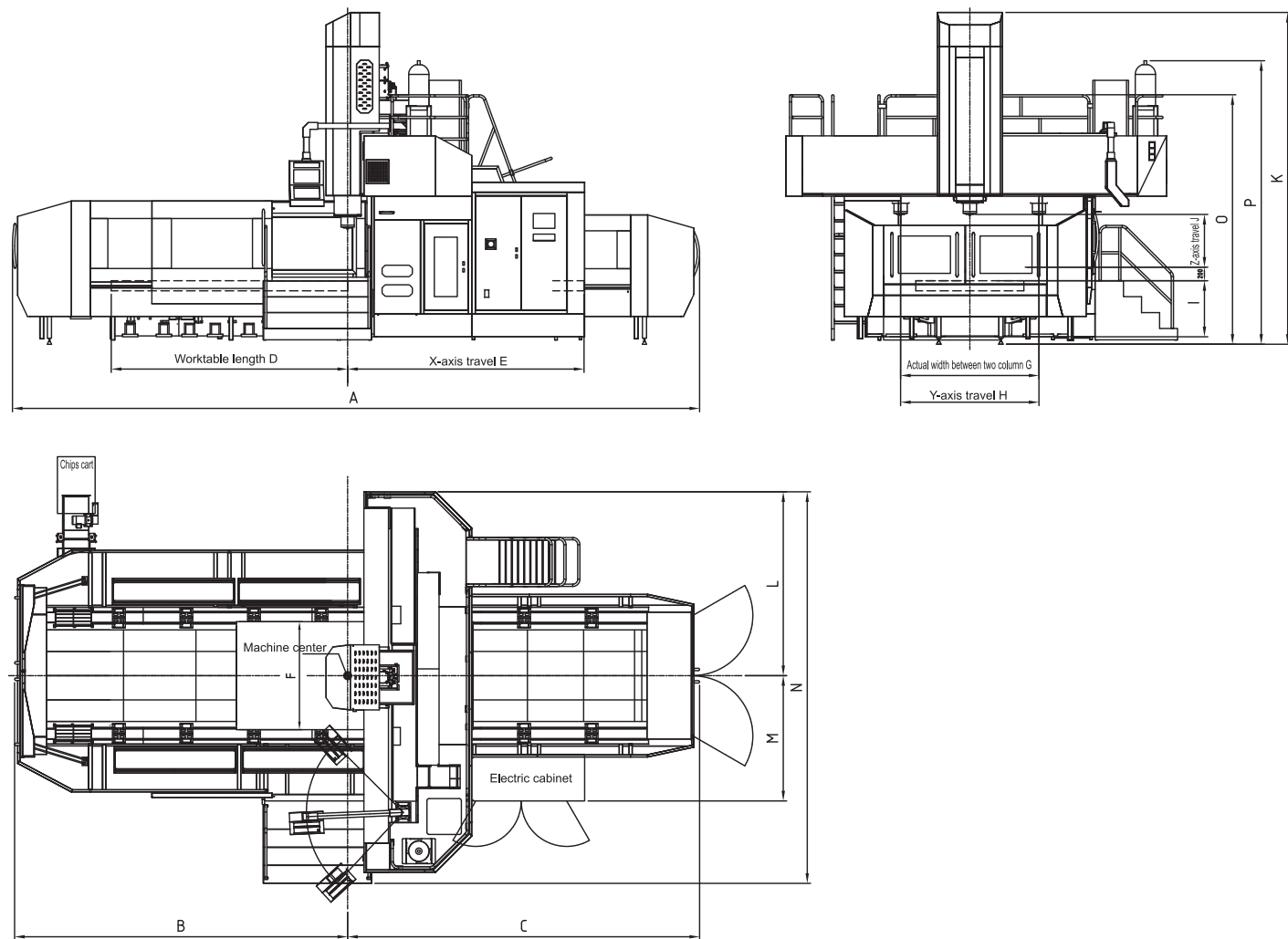


Optional 12000r/min spindle speed

spindle speed : 12000 r/min
main motor power : 25/44 kW
spindle torque : 87/150Nm



Overall Dimension



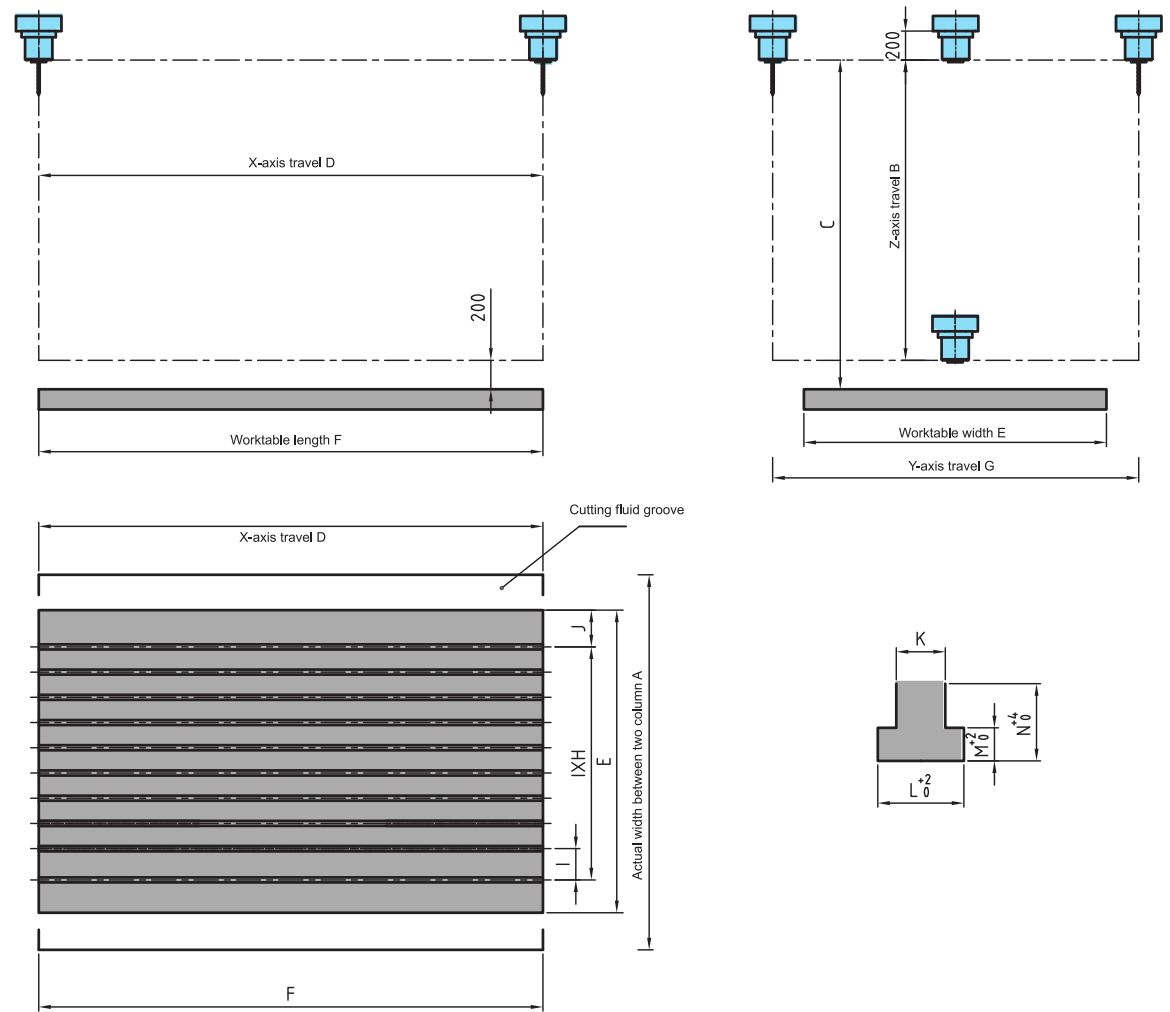
Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Weight	T
GMC2516L	7850	4035	3815	2500	2500	1250	1600	1600	930	850	5100	2120	1655	4955	3700	4200	26	
GMC3020L	9000	4555	4445	3000	3000	1600	2000	2000	930	850	5100	2320	1855	5400	3700	4200	28	
GMC3524L	10250	5000	5250	3500	3500	1800	2400	2400	930	850	5100	2520	2055	5800	3700	4200	33	

Standard Configuration

CNC Controller: FANUC Oi MF(1)
 2-level Gearbox
 Z-axis hydraulic balance system
 Spindle constant-temp cooling system
 Centralized Lubrication System for linear guideway & ballscrewLubrication system
 Auto Chip removing systems
 Full Cover

Workpiece water cooling system
 Air Gun
 Tricolour Light
 working light
 Standard accessories and files
 Foundation setting accessories
 Common maintenance tools

Process Range



Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N
GMC2516L	1600	850	1050	2500	1250	2500	1600	8	160	80	22	37	16	38
GMC3020L	2000	850	1050	3000	1600	3000	2000	10	160	80	22	37	16	38
GMC3524L	2400	850	1050	3500	1800	3500	2400	9	200	100	22	37	16	38

Options

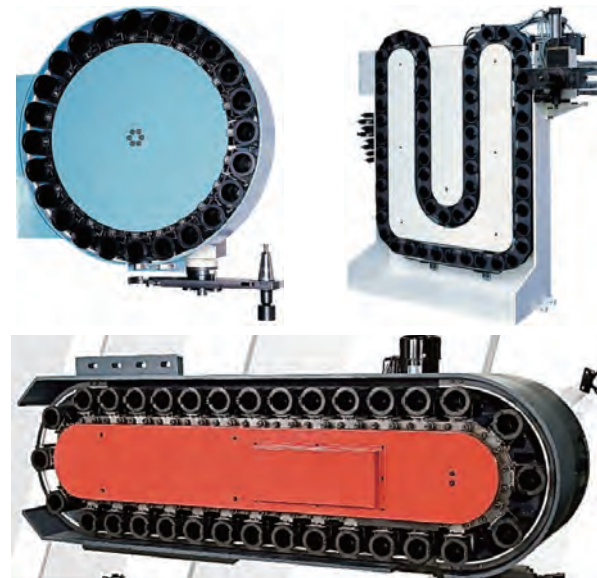
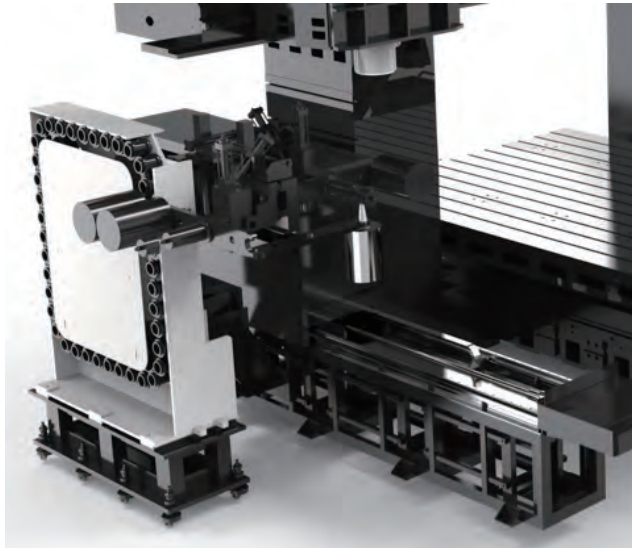
CNC controller: FANUC 31i ,Siemens 828D /840DsI
 12000rpm Motorized spindle(HSK-A63)
 Disk-type ATC 24T/30T
 Chain-type ATC 32T/40T
 Column height increase by 200mm
 Column height increase by 400mm
 Z-axis travel
 CTS

Spindle outside coolant
 Full closed cover(including top)
 Full-loop linear scale
 Workpiece auto measure device
 Tool auto measure device
 Cutting Oil&mist collector
 Water Gun

Technical specifications		GMC2016L	GMC2516L	GMC3016L	GMC3516L	GMC4016L	GMC2020L	GMC2520L
Travel								
Distance between columns	mm	1600	1600	1600	1600	1600	2000	2000
X-axis	mm	2000	2500	3000	3500	4000	2000	2500
Y-axis (processing travel)	mm	1600	1600	1600	1600	1600	2000	2000
Z-axis	mm	850	850	850	850	850	850	850
Distance from table surface to spindle nose	mm	200–1050(255–1105)	200–1050(255–1105)	200–1050(255–1105)	200–1050(255–1105)	200–1050(255–1105)	200–1050(255–1105)	200–1050(255–1105)
Worktable								
Worktable width	mm	1250	1250	1250	1250	1250	1600	1600
T-slot	mm	22	22	22	22	22	22	22
Load capacity	t	5	6	8	9	10	7	9
Spindle								
Spindle type		Direct Drive + Gearbox (motorized spindle)	Direct Drive + Gearbox (motorized spindle)	Direct Drive + Gearbox (motorized spindle)	Direct Drive + Gearbox (motorized spindle)	Direct Drive + Gearbox (motorized spindle)	Direct Drive + Gearbox (motorized spindle)	Direct Drive + Gearbox (motorized spindle)
Spindle taper		BT50 (HSK63)	BT50 (HSK63)	BT50 (HSK63)	BT50 (HSK63)	BT50 (HSK63)	BT50 (HSK63)	BT50 (HSK63)
Spindle speed	rpm	8000 (12000)	8000 (12000)	8000 (12000)	8000 (12000)	8000 (12000)	8000 (12000)	8000 (12000)
Spindle power	kW	22/26 (25/44)	22/26 (25/44)	22/26 (25/44)	22/26 (25/44)	22/26 (25/44)	22/26 (25/44)	22/26 (25/44)
Torque	N.m	560/661 (87/150)	560/661 (87/150)	560/661 (87/150)	560/661 (87/150)	560/661 (87/150)	560/661 (87/150)	560/661 (87/150)
Spindle box section	mm	400 × 400	400 × 400	400 × 400	400 × 400	400 × 400	400 × 400	400 × 400
Feedrate								
Rapid traverse X	m/min	16	16	16	16	16	16	16
Rapid traverse Y	m/min	20	20	20	20	20	20	20
Rapid traverse Z	m/min	20	20	20	20	20	20	20
Cutting speed	m/min	12	12	12	12	12	12	12
ATC(option)								
ATC type		disk/chain	disk/chain	disk/chain	disk/chain	disk/chain	disk/chain	disk/chain
ATC capacity		24/32/40	24/32/40	24/32/40	24/32/40	24/32/40	24/32/40	24/32/40
Tool holder type		BT50 (HSK63)	BT50 (HSK63)	BT50 (HSK63)	BT50 (HSK63)	BT50 (HSK63)	BT50 (HSK63)	BT50 (HSK63)
ISO accuracy GB (20±0.5℃)								
Positioning X	mm	0.014	0.016	0.018	0.02	0.021	0.014	0.016
Positioning Y	mm	0.014	0.014	0.014	0.014	0.014	0.014	0.014
Positioning Z	mm	0.011	0.011	0.011	0.011	0.011	0.011	0.011
Repeatability X	mm	0.009	0.011	0.011	0.013	0.014	0.009	0.011
Repeatability Y	mm	0.009	0.009	0.009	0.009	0.009	0.009	0.009
Repeatability Z	mm	0.006	0.006	0.006	0.006	0.006	0.006	0.006
Others								
Power	kVA	60	60	60	60	60	60	60
Air pressure	kgf/cm²	6.5	6.5	6.5	6.5	6.5	6.5	6.5
Height	mm	5100	5100	5100	5100	5100	5100	5100
Floor area	mm × mm	7520 × 4955	7850 × 4955	9000 × 4955	10250 × 4955	11250 × 4955	7520 × 5400	7850 × 5400
Net weight	t	24	26	27.5	29.5	35	25	27
Controller					FANUC/SIEMENS			

Technical specifications		GMC3020L	GMC3520L	GMC4020L	GMC3024L	GMC3524L	GMC4024L	GMC4524L
Travel								
Distance between columns	mm	2000	2000	2000	2400	2400	2400	2400
X-axis	mm	3000	3500	4000	3000	3500	4000	4500
Y-axis (processing travel)	mm	2000	2000	2000	2400	2400	2400	2400
Z-axis	mm	850	850	850	850	850	850	850
Distance from table surface to spindle nose	mm	200–1050(255–1105)	200–1050(255–1105)	200–1050(255–1105)	200–1050(255–1105)	200–1050(255–1105)	200–1050(255–1105)	200–1050(255–1105)
Worktable								
Worktable width	mm	1600	1600	1600	1800	1800	1800	1800
T-slot	mm	22	22	22	22	22	22	22
Load capacity	t	11	13	14	13	14	16	18
Spindle								
Spindle type		Direct Drive + Gearbox (motorized spindle)	Direct Drive + Gearbox (motorized spindle)	Direct Drive + Gearbox (motorized spindle)	Direct Drive + Gearbox (motorized spindle)	Direct Drive + Gearbox (motorized spindle)	Direct Drive + Gearbox (motorized spindle)	Direct Drive + Gearbox (motorized spindle)
Spindle taper		BT50 (HSK63)	BT50 (HSK63)	BT50 (HSK63)	BT50 (HSK63)	BT50 (HSK63)	BT50 (HSK63)	BT50 (HSK63)
Spindle speed	rpm	8000 (12000)	8000 (12000)	8000 (12000)	8000 (12000)	8000 (12000)	8000 (12000)	8000 (12000)
Spindle power	kW	22/26 (25/44)	22/26 (25/44)	22/26 (25/44)	22/26 (25/44)	22/26 (25/44)	22/26 (25/44)	22/26 (25/44)
Torque	N.m	560/661 (87/150)	560/661 (87/150)	560/661 (87/150)	560/661 (87/150)	560/661 (87/150)	560/661 (87/150)	560/661 (87/150)
Spindle box section	mm	400 × 400	400 × 400	400 × 400	400 × 400	400 × 400	400 × 400	400 × 400
Feedrate								
Rapid traverse X	m/min	16	16	16	16	16	16	16
Rapid traverse Y	m/min	20	20	20	16	16	16	16
Rapid traverse Z	m/min	20	20	20	16	16	16	16
Cutting speed	m/min	12	12	12	12	12	12	12
ATC(option)								
ATC type		disk/chain	disk/chain	disk/chain	disk/chain	disk/chain	disk/chain	disk/chain
ATC capacity		24/32/40	24/32/40	24/32/40	24/32/40	24/32/40	24/32/40	24/32/40
Tool holder type		BT50 (HSK63)	BT50 (HSK63)	BT50 (HSK63)	BT50 (HSK63)	BT50 (HSK63)	BT50 (HSK63)	BT50 (HSK63)
ISO accuracy GB (20±0.5℃)								
Positioning X	mm	0.018	0.02	0.021	0.018	0.02	0.021	0.023
Positioning Y	mm	0.014	0.014	0.014	0.016	0.016	0.016	0.016
Positioning Z	mm	0.011	0.011	0.011	0.011	0.011	0.011	0.011
Repeatability X	mm	0.011	0.013	0.014	0.011	0.013	0.014	0.015
Repeatability Y	mm	0.009	0.009	0.009	0.01	0.01	0.01	0.01
Repeatability Z	mm	0.006	0.006	0.006	0.006	0.006	0.006	0.006
Others								
Power	kVA	60	60	60	60	60	60	60
Air pressure	kgf/cm²	6.5	6.5	6.5	6.5	6.5	6.5	6.5
Height	mm	5100	5100	5100	5100	5100	5100	5100
Floor area	mm × m	9000 × 5400	10250 × 5400	11250 × 5400	9000 × 5800	10250 × 5800	11250 × 5800	12250 × 5800
Net weight	m	28	31	36	32	35	38.5	42
Controller					FANUC/SIEMENS			

ATC With optional disk type, chain type and vertical-horizontal type tool magazine, can realize auto tool change for higher efficiency.



TEL: 400-113-6699 24/7 Non-stop Service

After-sales maintenance every 3 months within warranty

40 sales & after-sale service offices globally

After-sales engineer with average 10 years experience

95% spare parts available at each after-sales office

Complete training and operation guiding

Standard after-sales service processing



AAC With closed automatic head magazine, can realize all milling heads changeable for automatic multisurface processing.

Extend 90°milling head

90°milling head

Extend milling head

Universal milling head

