



GM6
SPINDLE SERVO MOTOR

Contents**By Industry /Feature****GM6 series spindle motor model naming rules****GM6165 Model and specifications****GM6204 Model and specifications****GM6265 Model and specifications****BY INDUSTRY**

- CNC lathe, lathe-milling machine tool, vertical lathe, heavy horizontal lathe
- CNC milling machine, vertical machining center, horizontal machining center
- CNC boring machine, gantry planer, gantry milling machine
- CNC grinder, vertical grinder, floor boring and milling machine
- Drilling and tapping center, engraving and milling machine, gear hobbing machine, gear shaping machine, gear milling machine
- Electric vehicle field

FEATURE

- Brand new electromagnetic design scheme, tailor-made for the machine tool industry
- Equipped with high-precision encoder, higher positioning accuracy
- Brand new structure design, using closed heat dissipation channel, lower temperature rise
- High efficiency and energy saving
- The constant power range is wider and the low speed torque is greater
- Using a new manufacturing process, the performance is more stable

GM6 SERIES SPINDLE MOTOR MODEL NAMING RULES

GM6	204-235	C	G	D	12-00B	0	00		
1,2	3,4,5	6,7,8	9	10	11	12,13	14 15 16	17	18,19

Bit 1,2		Bit 6,7,8		Bit 9		Bit 10		Bit 12,13	
Symbol	Specification	Symbol	Specification	Symbol	Specification	Symbol	Specification	Symbol	Specification
GM6	Medium speed asynchronous spindle series	126	12.6N.m	A	500r/min	F	220V	I2	2500ppr incremental
		150	15N.m	B	1000r/min	G	380V	I4	2500ppr incremental (saving wires)
		A00	100N.m	C	1500r/min			I5	1024ppr incremental
		A18	118N.m	D	2000r/min				
		B00	200N.m	E	2500r/min				
		C00	300N.m	F	3000r/min				

Bit 3,4,5		Bit 11		Bit 16		Bit 14	
Symbol	Specification	Symbol	Specification	Symbol	Specification	Symbol	Specification
165	165Flange	D	Tamagawa	A	Smooth shaft	0	No brake
180	180Flange	N	NEMICON	B	Shaft with key	1	With brake
204	204Flange	C	YUHENG	C	Flat shaft		
265	265Flange			D	Conical shaft		

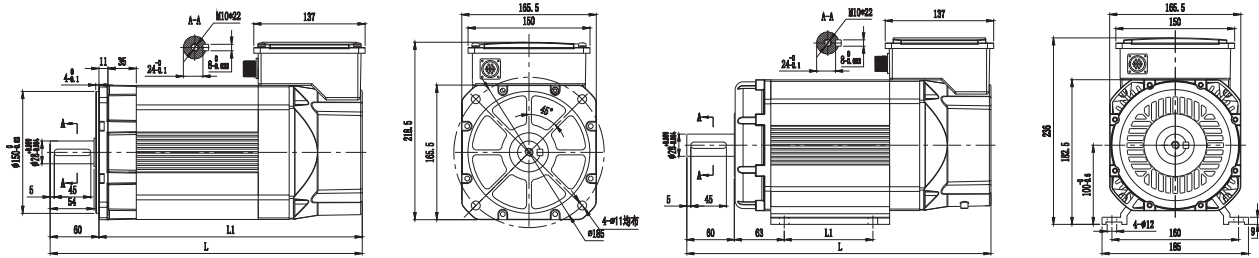
Bit 15	
Symbol	Specification
0	Flange(B5)
1	Foot(B3)
2	Foot+Flange(B35)

Bit 17	
Symbol	Specification
0	No oil seal
1	With oil seal

Bit 18,19	
Symbol	Specification
00	None
01	Design No. 01
02	Design No. 02
...	...

GM6165 SPINDLE SERVO MOTOR

DIMENSION:UNIT=MM



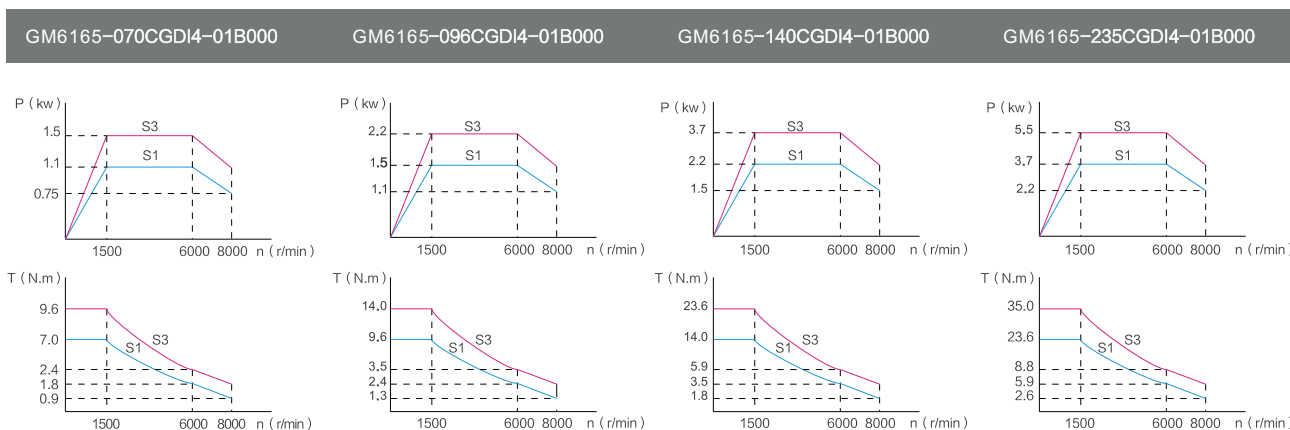
LENGTH	1.1kW	1.5kW	2.2kW	3.7kW
L1	274	294	324	379
L	334	354	384	439

LENGTH	1.1kW	1.5kW	2.2kW	3.7kW
L1	45	70	112	159
L	334	354	384	439

SPECIFICATIONS

MOTOR TYPE	RATED POWER (kW)	RATED CURRENT (A)	RATED TORQUE (N.m)	POLES (P)	RATED FREQUENCY (HZ)	RATED SPEED (R/MIN)	CONSTANT POWER MAXIMUM SPEED (R/MIN)	MAXIMUM SPEED (R/MIN)	MOMENT OF INERTIA (KG.M ²)	WEIGHT (KG)
GM6165-070CGDI4-01B000	1.1	2.6	7.0	4	52.5	1500	6000	8000	0.0058	14
GM6165-096CGDI4-01B000	1.5	3.4	9.6	4	52.5	1500	6000	8000	0.0066	16
GM6165-140CGDI4-01B000	2.2	4.9	14.0	4	52.5	1500	6000	8000	0.0078	22
GM6165-235CGDI4-01B000	3.7	7.8	23.5	4	52.5	1500	6000	8000	0.0108	30

CHARACTERISTIC CURVE

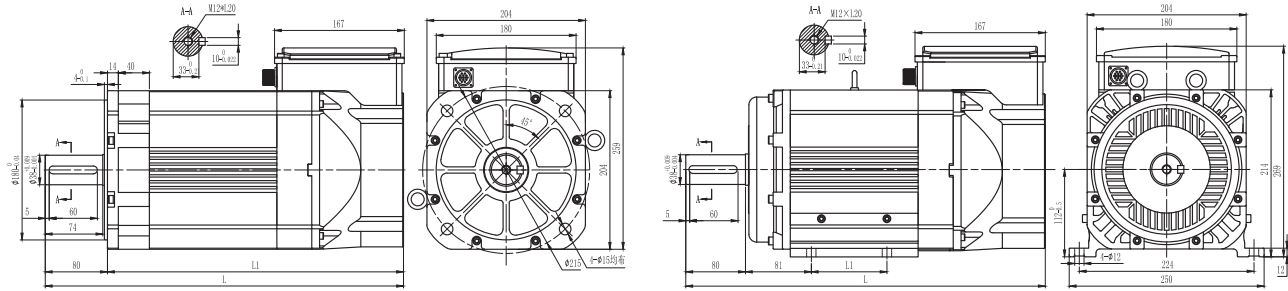


PERFORMANCE

NAME	ENCODER (OPTIONAL)	SHAFT EXTENSION STRUCTURE	MOUNTING	PROTECTION CLASS	INSULATION CLASS	VIBRATION CLASS	NOISE	AMBIENT TEMPERATURE	ENVIRONMENT HUMIDITY
INDEX	I2 2500ppr incremental	A: Smooth shaft	B3, B35, B5	IP55	F class	S	≤70dB	-15~45℃	≤95%RH
	I4 2500ppr incremental (saving wires)	B: Shaft with key							
	I5 1024ppr incremental								

GM6204 SPINDLE SERVO MOTOR

DIMENSION:UNIT=MM



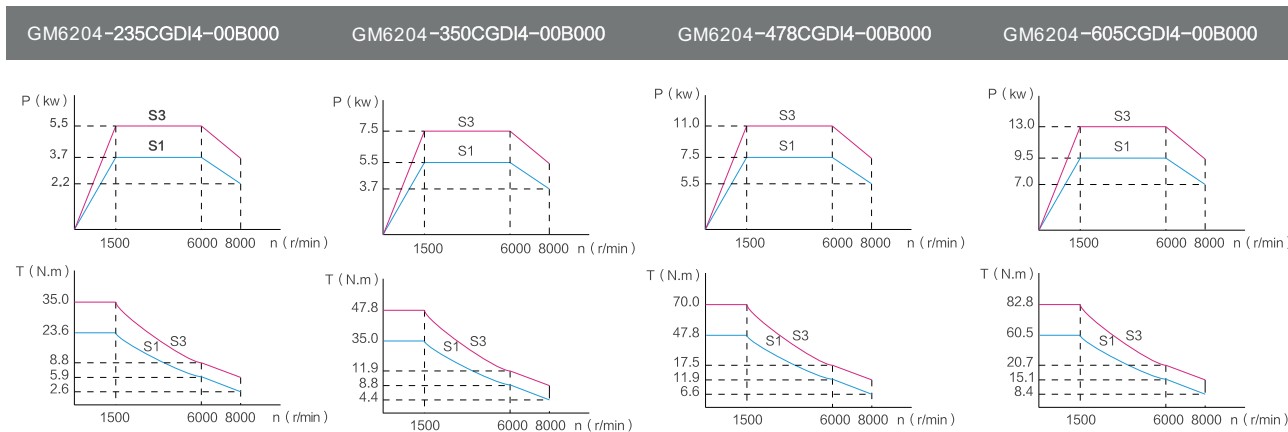
LENGTH	3.7kW	5.5kW	7.5kW	9.5kW
L1	381	427	482	519
L	461	507	562	597

LENGTH	3.7kW	5.5kW	7.5kW	9.5kW
L1	73/97	128/153	178/208	208
L	465	511	566	601

SPECIFICATIONS

MOTOR TYPE	RATED POWER (kW)	RATED CURRENT (A)	RATED TORQUE (N.m)	POLES (P)	RATED FREQUENCY (HZ)	RATED SPEED (R/MIN)	CONSTANT POWER MAXIMUM SPEED (R/MIN)	MAXIMUM SPEED (R/MIN)	MOMENT OF INERTIA (KG.M ²)	WEIGHT (KG)
GM6204-235CGDI4-00B000	3.7	9.1	23.5	4	51.5	1500	6000	8000	0.0162	34.6
GM6204-350CGDI4-00B000	5.5	13.0	35.0	4	51.5	1500	6000	8000	0.0210	43.6
GM6204-478CGDI4-00B000	7.5	17.8	47.8	4	51.5	1500	6000	8000	0.0267	54.4
GM6204-605CGDI4-00B000	9.5	23.8	60.5	4	51.5	1500	6000	8000	0.0304	61.2

CHARACTERISTIC CURVE

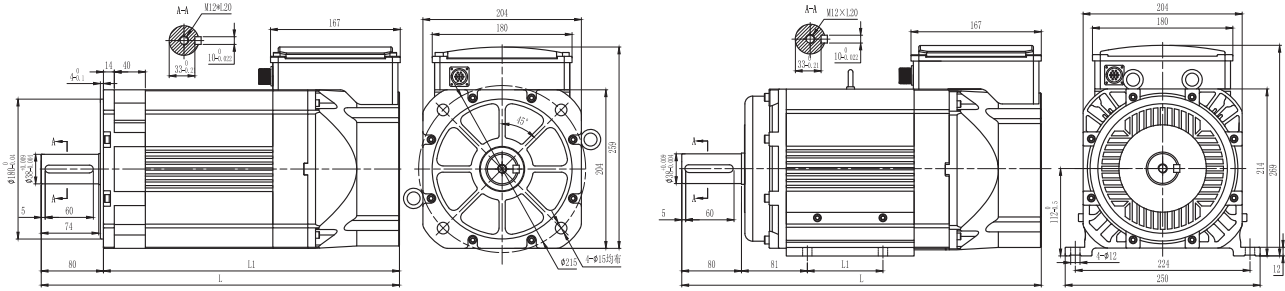


PERFORMANCE

NAME	ENCODER (OPTIONAL)	SHAFT EXTENSION MOUNTING PROTECTION INSULATION VIBRATION NOISE AMBIENT ENVIRONMENT	STRUCTURE CLASS CLASS CLASS CLASS TEMPERATURE HUMIDITY
INDEX	I2 2500ppr incremental	A: Smooth shaft B3、B35、B5	IP55 F class S ≤70dB -15~45℃ ≤95%RH
	I4 2500ppr incremental (saving wires)	B: Shaft with key	
	I5 1024ppr incremental		

GM6204 SPINDLE SERVO MOTOR (COMPACT TYPE)

DIMENSION: UNIT=MM



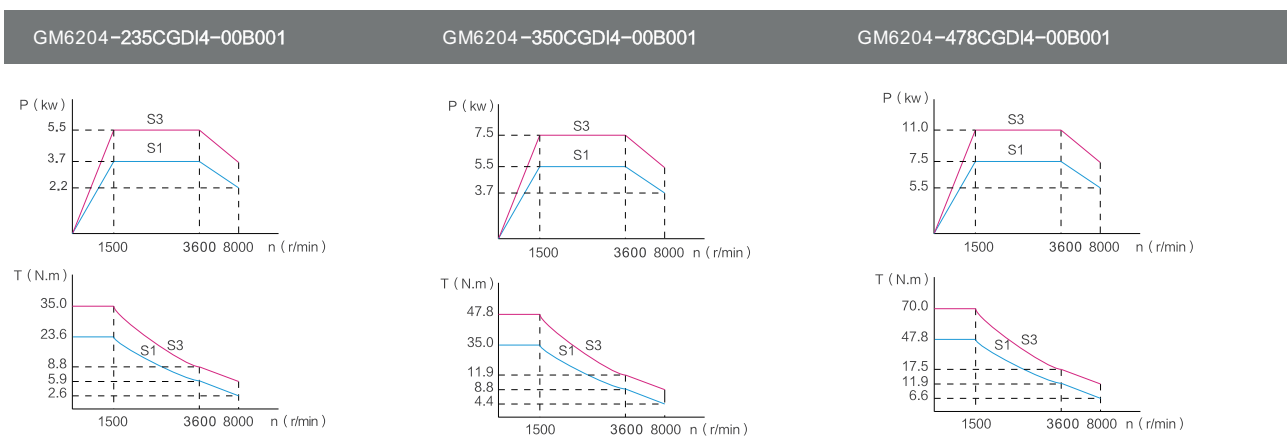
LENGTH	3.7kW	5.5kW	7.5kW
L1	357	402	452
L	437	482	532

LENGTH	3.7kW	5.5kW	7.5kW
L1	73	128	178
L	441	486	536

SPECIFICATIONS

MOTOR TYPE	RATED POWER (kW)	RATED CURRENT (A)	RATED TORQUE (N.m)	POLES (P)	RATED FREQUENCY (HZ)	RATED SPEED (R/MIN)	CONSTANT POWER MAXIMUM SPEED (R/MIN)	MAXIMUM SPEED (R/MIN)	MOMENT OF INERTIA (KG.M ²)	WEIGHT (KG)
GM6204-235CGDI4-00B001	3.7	8.9	23.5	4	51.5	1500	3600	8000	0.0134	29.7
GM6204-350CGDI4-00B001	5.5	13.5	35.0	4	51.5	1500	3600	8000	0.0186	38.7
GM6204-478CGDI4-00B001	7.5	17.1	47.8	4	51.5	1500	3600	8000	0.0233	49.5

CHARACTERISTIC CURVE

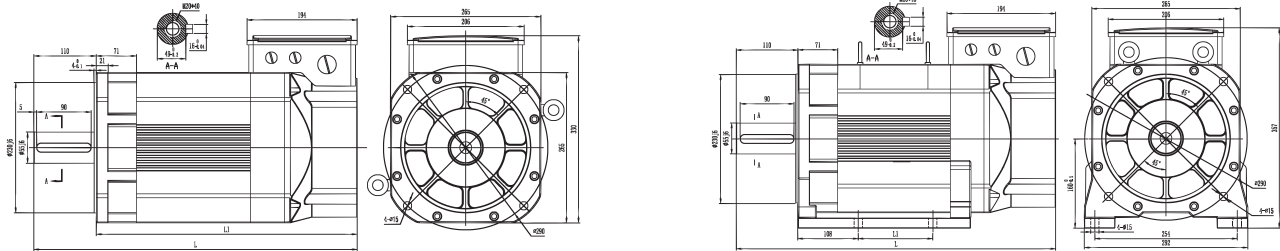


PERFORMANCE

NAME	ENCODER (OPTIONAL)	SHAFT EXTENSION STRUCTURE	MOUNTING CLASS	PROTECTION CLASS	INSULATION CLASS	VIBRATION CLASS	NOISE	AMBIENT TEMPERATURE	ENVIRONMENT HUMIDITY	
INDEX	I2	2500ppr incremental A:	Smooth shaft	B3、B35、B5	IP55	F class	S	≤70dB	-15~45°C	≤95%RH
	I4	2500ppr incremental (saving wires)	B:	Shaft with key						
	I5	1024ppr incremental								

GM6265 SPINDLE SERVO MOTOR

DIMENSION:UNIT=MM



LENGTH	11kW	15kW	18.5kW	22kW	30kW
L1	460	510	565	610	680
L	570	620	675	720	790

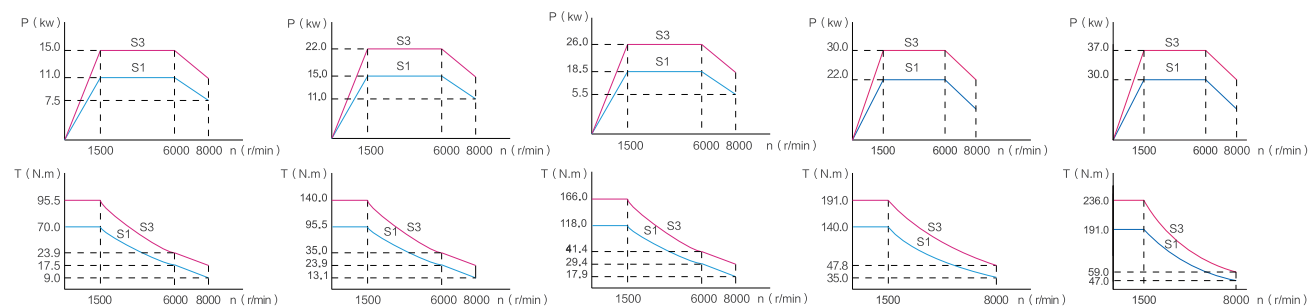
LENGTH	11kW	15kW	18.5kW	22kW	30kW
L1	133	173	218	243	243
L	570	620	675	720	790

SPECIFICATIONS

MOTOR TYPE	RATED POWER (KW)	RATED CURRENT (A)	RATED TORQUE (N.m)	POLES (P)	RATED FREQUENCY (HZ)	RATED SPEED (R/MIN)	CONSTANT POWER MAXIMUM SPEED (R/MIN)	MAXIMUM SPEED (R/MIN)	MOMENT OF INERTIA (KG.M ²)	WEIGHT (KG)
GM6265-700CGDI4-01B000	11	21.5	70	4	51.5	1500	6000	8000	0.0491	87
GM6265-960CGDI4-01B000	15	29.0	96	4	51.5	1500	6000	8000	0.0603	117
GM6265-A18CGDI4-01B000	18.5	35.2	118	4	51.5	1500	6000	8000	0.0715	137
GM6265-A40CGDI4-01B000	22	42.3	140	4	51.5	1500	6000	8000	0.0824	150
GM6265-A91CGDI4-01B000	30	51.0	191	4	51.5	1500	6000	8000	0.0930	163

CHARACTERISTIC CURVE

GM6265-700CGDI4-01B000	GM6265-960CGDI4-01B000	GM6265-A18CGDI4-01B000	GM6265-A40CGDI4-01B000	GM6265-A91CGDI4-01B000
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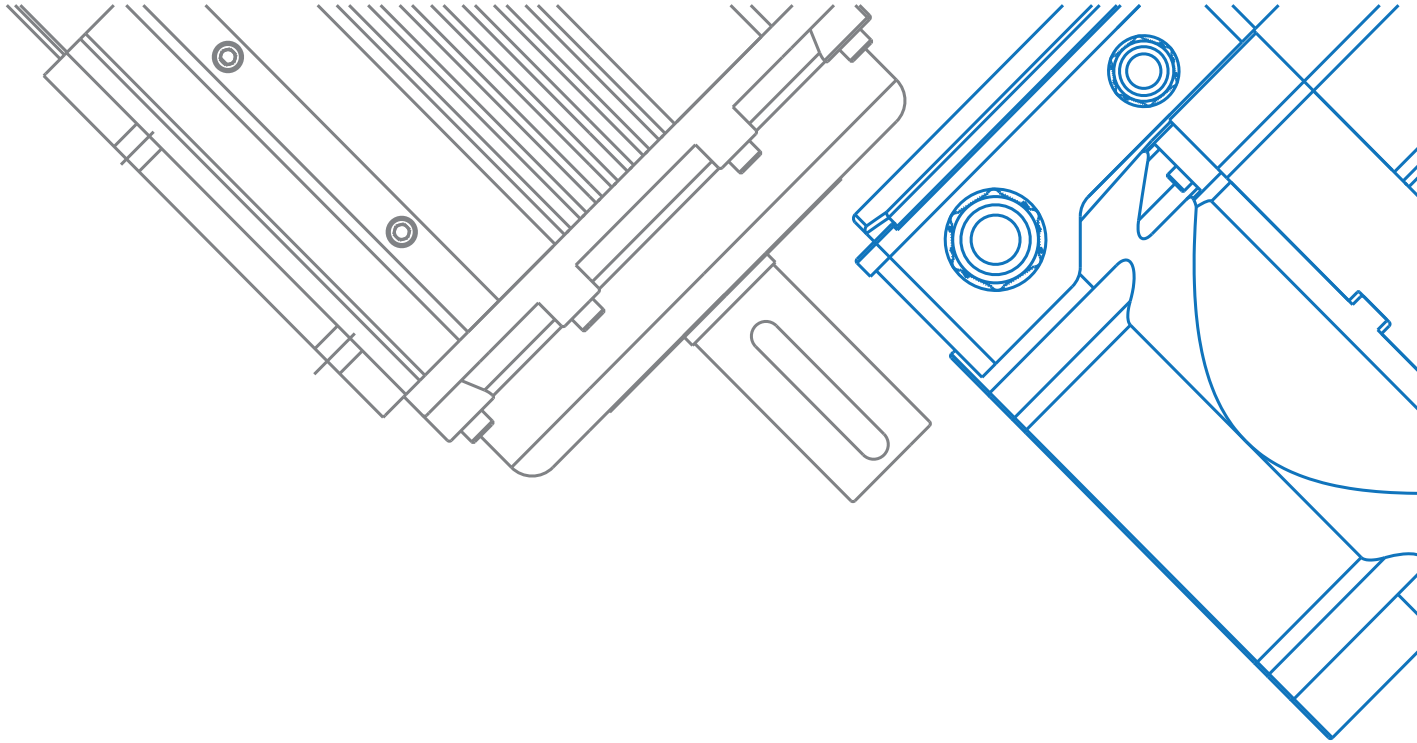


PERFORMANCE

NAME	ENCODER (OPTIONAL)	SHAFT EXTENSION STRUCTURE	MOUNTING PROTECTION CLASS	INSULATION CLASS	VIBRATION CLASS	NOISE	AMBIENT TEMPERATURE	ENVIRONMENT HUMIDITY	
INDEX	I2	2500ppr incremental A: Smooth shaft	B3, B35, B5	IP55	F class	S	≤70dB	-15~45°C	≤95%RH
	I4	2500ppr incremental (saving wires)	B: Shaft with key						
	I5	1024ppr incremental							



HNC ELECTRIC LIMITED is a company dedicated to the development and production of intelligent industrial automation solutions based on national strategic needs. Supported by its outstanding electrical and electronic technology and strong control technology, it provides control, display, drive and system solutions and other related products and services to customers worldwide. With 25 years of hard work, we have developed and produced professional CNC systems, industrial robots, servo drives, servo motors, reducers, inverters, PLCs, HMIs, etc. In more than 50 countries and regions around the world, we have established a comprehensive agent system and after-sales service system. In the future, we will, as always, provide more professional services for global industrial automation.



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