深圳贯虹自动化有限公司
Shenzhen Guanhong Automation CO.,LTD.



http://www.szghauto.com

PRODUCT SELECTION GUIDE

Shenzhen Guanhong Automation CO.,LTD (Formerly known as 'Shenzhen Guanhong Automation Technology Co.,Limited(Built in 19 November 2010) is one of the leading CNC & automatic company in China, specialized in designing projects, marketing, and oversea trading, having extensive experience in CNC package solution, Our focus has been on providing the high quality of Lathe CNC system, Milling CNC system, Engraving CNC system, AC Spindle servo motor&driver, AC servo motor & driver, Stepper motor & driver, Closed stepper motor &driver, Gear reducer.

COMPANY PROFILE









SZGH' products have been in working with a wide variety of CNC machinery and automatic processing equipment with high performance and good precision, stably. We have now established a reliable structure , our experienced engineers and technicians are able to provide professional consultancy and offer you most suitable CNC application solution.

Our strict quality control measures guarantee excellent reliability and high standard of quality. Utilizing advanced CNC machinery to test every product, 100 percent inspection is made before packaging and shipment. Moreover, We also offer flexible lead times to support your business.

We have a large number of customers across Asia, America, the Middle East, Europe, South America, and Africa. Specially we already built own business corporate group in Middle East market.



CNC Lathe & Turning Controller

- 1)2-4 Axis economic type series CNC lathe controller
- 2) 800x600 8.4 inch real color LCD displayer
- 3) Electric Turret & Binary code Turret & Special Turret, Max: 99 Pcs of tools
- 4) Support ATC , Macro function and PLC function
- 5) 2MHz Pulse Output Frequency, Default Pulse equivalent is 1um.
- 6) Support C-axis positioning,rigid tapping,threading of spindle
- 7) High anti-jamming switch power(220VAC -> 24VDC&5V)
- 8) 128MB Memory , 100Mb user store room
- 9) With USB interface, for upgrade & copy programs
- 10) Analog voltage output of 0~10V in two channels, support double spindles
- 11) Support Position Feedback with linear scale(Differential signal/RS422)
- 12) Basic I/O: 40X24 ,PLC On-line Display,Monitor & Design
- 13) cutter offset : C
- 14) English menu, program and interface, full screen edition
- 15)Support macro variable dialog box & Running program by input points
- 16)Built-in screw compensation,Reverse backlash compensation
- 17) CNC990TDi support Modbus/EtherCAT/PowerLink/Increment type Servo System



SZGH-CNC990TDb/
SZGH-CNC990TDc

Application: CNC Lathe & Turning Machinery and specially automatic equipment

CNC Lathe & Turning Controller

- 1)2-5 Axis stnadard type and updated series CNC lathe controller
- 2) 800x600 8.4 inch real color LCD displayer
- 3) Electric Turret & Binary code Turret & Special Turret, Max: 99 Pcs of tools
- 4) Support ATC , Macro function and PLC function
- 5) 2MHz Pulse Output Frequency, Default Pulse equivalent is 1um.
- 6) Support C-axis positioning,rigid tapping,threading of spindle
- 7) High anti-jamming switch power(220VAC -> 24VDC&5V)
- 8) 128MB Memory , 100Mb user store room
- 9) With USB interface, for upgrade & copy programs
- 10) Analog voltage output of 0~10V in two channels, support double spindles
- 11) Support Position Feedback with linear scale(Differential signal/RS422)
- 12) Basic I/O: 56X32 ,PLC On-line Display,Monitor & Design
- 13) cutter offset : C
- 14) English menu, program and interface, full screen edition
- 15)Support macro variable dialog box & Running program by input points
- 16)Built-in screw compensation,Reverse backlash compensation
- 17) CNC1000TDi support Modbus/EtherCAT/PowerLink/Increment type Servo System



SZGH-CNC1000TDb



SZGH-CNC1000TDc

Application: CNC Lathe Machinery,CNC Turning Center,Grinding Machine and specially automatic equipment

Vertical Type CNC Lathe & Turning Controller

- 1)2-5 Axis stnadard type and updated series CNC lathe controller
- 2) 800x600 8.4 inch real color LCD displayer
- 3) Electric Turret & Binary code Turret & Special Turret, Max: 99 Pcs of tools
- 4) Support ATC , Macro function and PLC function
- 5) 2MHz Pulse Output Frequency, Default Pulse equivalent is 1um.
- 6) Support C-axis positioning,rigid tapping,threading of spindle
- 7) High anti-jamming switch power(220VAC -> 24VDC&5V)
- 8) 128MB Memory , 100Mb user store room
- 9) With USB interface, for upgrade & copy programs
- 10) Analog voltage output of 0~10V in two channels, support double spindles
- 11) Support Position Feedback with linear scale(Differential signal/RS422)
- 12) Basic I/O: 56X32 ,PLC On-line Display,Monitor & Design
- 13) cutter offset : C
- 14) English menu, program and interface, full screen edition
- 15)Support macro variable dialog box & Running program by input points
- 16)Built-in screw compensation,Reverse backlash compensation
- 17) CNC1500TDi support Modbus/EtherCAT/PowerLink/Increment type Servo System

Application: CNC Lathe Machinery,CNC Turning Center,Grinding Machine and specially automatic equipment



SZGH-CNC1500TDb/
SZGH-CNC1500TDc

Double Channel Type CNC Lathe & milling Controller

- 1) 2-16 Axis double channels series CNC lathe & milling controller
- 2) able to use to two pcs lathe machine, or milling machine at same time.
  (Example: A channel working 5 axis lathe, B channel working with 3 axis milling machine)
- 3) Electric Turret & Binary code turret,Max: 99 pcs tools
- 4) Support ATC , Macro function and PLC function
- 5) 5MHz Pulse Output Frequency,Max speed is 300m/min, feeding speed is 150m/min
- 6) Adapted servo spindle can realize spindle continous position,rigid tapping,rigid screw processing
- 7) High anti-jamming switch power(220VAC -> 24VDC&5V)
- 8) 128MB Memory , 110Mb user store room
- 9) With USB interface,it supports file operation in flash disk,system configuration and software upgrade
- 10) Analog voltage output of 0~10V in two channels,support double spindles
- 11) 32 bits high performance, low power consumption industrial grade ARM microprocessor.
- 12) Basic I/O : 56X32 , user can be edited freely
- 13) cutter offset : C
- 14) English menu, program and interface, full screen edition
- 15) CNC2000M/TDi support Modbus/EtherCAT/PowerLink/Increment type Servo System

Application: CNC Lathe Machinery,CNC Turning Center,CNC Milling Machine, CNC Milling & lathe together equipment and Special CNC Machinery



SZGH-CNC2000TDc/
SZGH-CNC2000MDc

CNC Milling & Drilling Controller



SZGH-CNC990MDb/
SZGH-CNC990MDc

- 1)3-4 Axis economic type series CNC Milling controller
- 2) CNC990MDc series support absolute type servo system
- 3) 800x600 8.4 inch real color LCD displayer
- 4) Support ATC , Macro function and PLC function
- 5) 2MHz Pulse Output Frequency, Default Pulse equivalent is 1um.
- 6) Support C-axis positioning,rigid tapping,threading of spindle
- 7) High anti-jamming switch power(220VAC -> 24VDC&5V)
- 8) 128MB Memory , 100Mb user store room
- 9) With USB interface, for upgrade & copy programs
- 10) Analog voltage output of 0~10V in two channels, support double spindles
- 11) Support Position Feedback with linear scale(Differential signal/RS422)
- 12) Basic I/O: 40X24 ,PLC On-line Display,Monitor & Design
- 13)Support Linear tool magazine,umbrella,Arm type tool magazine
- 14) English menu, program and interface, full screen edition
- 15)Support macro variable dialog box & Running program by input points
- 16)Built-in screw compensation,Reverse backlash compensation
- 17) CNC990MDi support Modbus/EtherCAT/PowerLink/Increment type Servo System



Application: CNC Milling Machinery,CNC Drilling machinery,CNC Boring Machinery & automatic equipment

CNC Milling & Router Controller



SZGH-CNC1000MDb

- 1)3-5 Axis standard and updated series CNC milling and router controller
- 2) CNC1000MDc series support absolute type servo system & linear scale
- 3) 800x600 8.4 inch real color LCD displayer
- 4) Support ATC , Macro function and PLC function
- 5) 2MHz Pulse Output Frequency, Default Pulse equivalent is 1um.
- 6) Support C-axis positioning,rigid tapping,threading of spindle
- 7) High anti-jamming switch power(220VAC -> 24VDC&5V)
- 8) 128MB Memory , 100Mb user store room
- 9) With USB interface, for upgrade & copy programs
- 10) Analog voltage output of 0~10V in two channels, support double spindles
- 11) Support Position Feedback with linear scale(Differential signal/RS422)
- 12) Basic I/O: 56X32 ,PLC On-line Display,Monitor & Design
- 13)Support Linear tool magazine,umbrella,Arm type tool magazine
- 14) English menu, program and interface, full screen edition
- 15)Support macro variable dialog box & Running program by input points
- 16)Built-in screw compensation,Reverse backlash compensation
- 17) CNC1000MDi support Modbus/EtherCAT/PowerLink/Increment type Servo System



SZGH-CNC1000MDc

Application:CNC Boring mchine,CNC wood working machine,CNC Milling machinery, CNC drilling machinery,and specially automatic equipment

Vertical Type CNC milling & Router Controller

- 1) 2-5 Axis vertical type series CNC Milling & Router controller
- 2) CNC1500MDc series support absolute type servo system & linear scale
- 3) 800x600 8.4 inch real color LCD displayer
- 4) Support ATC , Macro function and PLC function
- 5) 2MHz Pulse Output Frequency, Default Pulse equivalent is 1um.
- 6) Support C-axis positioning,rigid tapping,threading of spindle
- 7) High anti-jamming switch power(220VAC -> 24VDC&5V)
- 8) 128MB Memory , 100Mb user store room
- 9) With USB interface, for upgrade & copy programs
- 10) Analog voltage output of 0~10V in two channels, support double spindles
- 11) Support Position Feedback with linear scale(Differential signal/RS422)
- 12) Basic I/O: 56X32 ,PLC On-line Display,Monitor & Design
- 13)Support Linear tool magazine,umbrella,Arm type tool magazine
- 14) English menu, program and interface, full screen edition
- 15)Support macro variable dialog box & Running program by input points
- 16)Built-in screw compensation,Reverse backlash compensation
- 17) CNC1500MDi support Modbus/EtherCAT/PowerLink/Increment type Servo System

Application: CNC wooding progressing equipment,CNC milling machinery,CNC drilling machinery,CNC router machine,and CNC engraving machine



SZGH-CNC1500MDb/
SZGH-CNC1500MDc

CNC Milling Machining Center Controller

- 1) 3-5 Axis high classes series CNC Controller for Machine Center
- 2) Support absolute type servo system & linear scale
- 3) 800x600 8.4 inch real color LCD displayer
- 4) Support ATC , Macro function and PLC function(M6 T#)
- 5) Type of Tool Magazine: Arm type,Servo type, Disc type, Umbrella Type & Other Special Type,Max:99 Tools
- 6) 2MHz Pulse Output Frequency, Default Pulse equivalent is 1um.
- 7) High anti-jamming switch power(220VAC -> 24VDC&5V)
- 8) 128MB Memory , 100Mb user store room
- 9) With USB interface, for upgrade & copy programs
- 10) Analog voltage output of 0~10V in two channels, support double spindles
- 11) Support Position Feedback with linear scale(Differential signal/RS422)
- 12) Basic I/O: 56X32 ,PLC On-line Display,Monitor & Design
- 13)Support Linear tool magazine,umbrella,Arm type tool magazine
- 14) English menu, program and interface, full screen edition
- 15)Support macro variable dialog box & Running program by input points
- 16)Built-in screw compensation,Reverse backlash compensation
- 17) CNC1000MDi support Modbus/EtherCAT/PowerLink/Increment type Servo System

Application: Vertical Machine Center,Horizontal Machine Center and Other special automatic equipment



SZGH-CNC1000MDcb

Cnc Grinding Controller

- 1) 2-5 Axis standard series CNC Grinder controller
- 2) Support absolute type servo system & linear scale
- 3) 800x600 8.4 inch real color LCD displayer
- 4) 2MHz Pulse Output Frequency, Default Pulse equivalent is 1um.
- 5) High anti-jamming switch power(220VAC -> 24VDC&5V)
- 6) 128MB Memory , 100Mb user store room
- 7) With USB interface, for upgrade & copy programs
- 8) Analog voltage output of 0~10V in two channels, support double spindles
- 9) Support Position Feedback with linear scale(Differential signal/RS422)
- 10) Basic I/O: 56X32 ,PLC On-line Display,Monitor & Design
- 11)Support Linear tool magazine,umbrella,Arm type tool magazine
- 12) English menu, program and interface, full screen edition
- 13)Support macro variable dialog box & Running program by input points
- 14)Built-in screw compensation,Reverse backlash compensation

Application: CNC grinding machinery,CNC flat grinder,and specially automatic equipment



SZGH-CNC1000GDb/
SZGH-CNC1000GDc

CNC Boring Controller

- 1)3-5 Axis standard and updated series CNC milling and router controller
- 2) CNC1000MDc series support absolute type servo system & linear scale
- 3) 800x600 8.4 inch real color LCD displayer
- 4) Support ATC , Macro function and PLC function
- 5) 2MHz Pulse Output Frequency, Default Pulse equivalent is 1um.
- 6) Support C-axis positioning,rigid tapping,threading of spindle
- 7) High anti-jamming switch power(220VAC -> 24VDC&5V)
- 8) 128MB Memory , 100Mb user store room
- 9) With USB interface, for upgrade & copy programs
- 10) Analog voltage output of 0~10V in two channels, support double spindles
- 11) Support Position Feedback with linear scale(Differential signal/RS422)
- 12) Basic I/O: 56X32 ,PLC On-line Display,Monitor & Design
- 13)Support Linear tool magazine,umbrella,Arm type tool magazine
- 14) English menu, program and interface, full screen edition
- 15)Support macro variable dialog box & Running program by input points
- 16)Built-in screw compensation,Reverse backlash compensation
- 17) CNC1000MDi support Modbus/EtherCAT/PowerLink/Increment type Servo System

Application: CNC Boring mchine and specially automatic equipment



SZGH-CNC1000MDb



SZGH-CNC1000MDc





Product Features:

- 1) Optimized structure algorithm, adapt Robots for Various Structure
- 2) Modular function design , apply to different applications
- 3) Support RS232/RS485/Wifi/Internet Communication
- 4) Support Modbus/Ethercat Control with Modbus Multi-turns Absolute Servo,simpler wiring
- 5) Support Pulse+Direction Signals For Feeding Axes(Servo/Step)
- 6) Teach function with technical parameter, easier to operate
- 7) Robot TCP Function, Seam tracking function
- 8) PLC and macro program are all opened,Support Editing PLC ladder online
- 9) Multilevel random password protection, more safety

System algorithm:

(1) vertical multiple-joints serial robot

(2) Vertical multiple-joints parallelogram robot

(3) Vertical multiple-joints L-shaped wrist robot

(4) Polar coordinate robot

(5) Horizontal Joint Robot (SCARA)

(6) Delta robot

(7) Special purpose robot

Application: handling, welding, spraying, palletizing, cutting, polishing, forging, casting, etc.

GH-1000TC

- 1) 2-5 Axis Fully English Type CNC lathe controller
- 2) 800x600 8.4 inch real color LCD displayer
- 3) Electric Turret & Binary code turret,Max: 99 pcs tools
- 4) Support ATC , Macro function and PLC function
- 5) Max speed is 60m/min, feeding speed is 24m/min
- 6) Adapted servo spindle can realize spindle continous position,rigid tapping,rigid screw processing
- 7) High anti-jamming switch power(100V-240VAC 50Hz/60Hz -> 24VDC)
- 8) 64MB Memory , 56Mb user store room
- 9) With USB interface,it supports file operation in flash disk,system configuration and software upgrade
- 10)Position Control Mode:Pulse+Direction/AB Phase,Dual Analog voltage output of 0~10V
- 11)32 bits ARM microprocessor+FPGA Technology.
- 12)Basic I/O: 36X36 , can be edited freely
- 13)cutter offset : C
- 14)Installing dimension, electric interfaces, instruction system and operating windows being compatible with those of GSK980TDb Turning CNC System "



GH-1000TC

Application: CNC Lathe & Turning Machinery and specially automatic equipment

CNC Milling & Drilling Controller

GH-1000MC

- 1) 3-5 Axis Fully English Type CNC Milling controller
- 2) 800x600 8.4 inch real color LCD displayer
- 3) Electric Turret & Binary code turret,Max: 99 pcs tools
- 4) Support ATC , Macro function and PLC function
- 5) Max speed is 60m/min, feeding speed is 24m/min,0.1um control precision
- 6) Adapted servo spindle can realize spindle continous position,rigid tapping,rigid screw processing
- 7) High anti-jamming switch power(100V-240VAC 50Hz/60Hz -> 24VDC)
- 8) 64MB Memory,56Mb user store room
- 9) With USB interface,it supports file operation in flash disk,system configuration and software upgrade
- 10)Position Control Mode:Pulse+Direction/AB Phase,Dual Analog voltage output of 0~10V
- 11)32 bits ARM microprocessor+FPGA Technology.
- 12)Basic I/O:36X36,can be edited freely
- 13)cutter offset:C



GH-1000MC

Application: CNC Drilling & Milling Machinery and specially automatic equipment

GH-Z4

- 1. 15" LCD, plasma and flame cutting, simple display.
- 2. Stronger industrial embedded core, the process speed is four times as fast as Z4, advanced arc interpolation and lift speed calculation.
- 3. Simpler control: multi-function knob, shortcut keys, 4-torch control key and so on.
- 4. Support various compound cutting, plasma, flame, laser, line-draw, drill, can steady work in the electromagnetism environment.
- 5. Remote Control: RFL1, RFS1
- 6. Arc Voltage Torch Height Controller: AHa-S1
- 7. Torch Lifter: AHb-S1
- 8. Programming: ISO-G code, graph library and manual programming
- 9. I/O Control: input32, output24
- 10. AD/DA: 2 for each, 10 digits 0-10V (0-5V is compatible)



GH-Z4



THC

CNC Cutting Numerical Controller

GH-2012AH

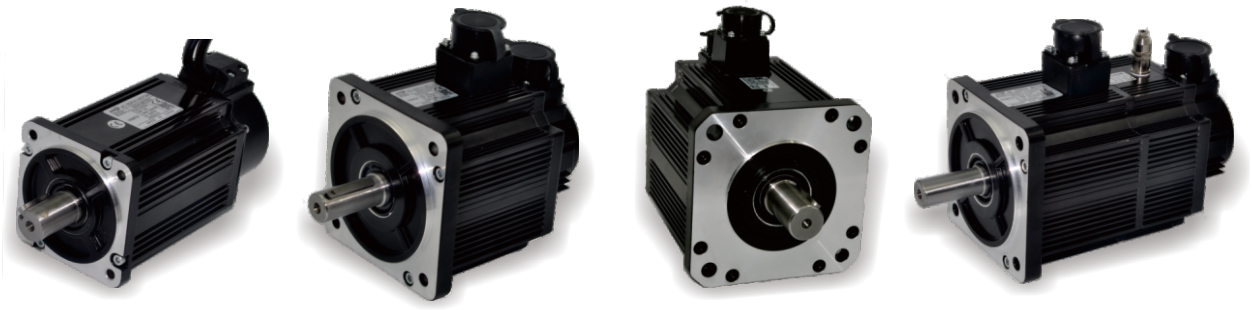
- 1. Industrial ARM chip, low power consumption, low heat.Anti-interference from plasma, pass EMC test.
- 2. It has 4 relays for normally-open/closed contacts , 24 figures are available to use
- 3. Kerf compensation, breaking point recover, parts rotation, mirror, scale and so on.
- 4. It's compatible with Fast CAM and other nesting software
- 5. I/O Control: input (optoelectronic isolation)*13, output (relay output)*8
- 6. Highest Speed: 24m/min ,Programming Unit: 0.001mm
- 7. Programming: ISO-G code and manual programming
- 8. Display: 7" color LCD
- 9. Working Temperature: 0℃～55℃



GH-2012AH

SERVO MOTOR & DRIVER

http://www.szghauto.com



Model	Frame size (mm)	Rated Power (w)	Torque(N.M)		Rated Speed (r/min)	Rated Current (A)	Rated Voltage (V)	Rotor Inertia ($kg.m^2 x10^{-4}$)	Encoder Resolution (PPR)		Motor Length (mm)	brake motor (/T) Length	Diameter of Axle (mm)	Weight (kg)
			Continuous	peak					Increment type	Absolute type				
SZGH-04005D	40	50	0.16	0.32	3000	0.4	220	0.025	2500	17 bit	75	109	8	0.4
SZGH-04010D	40	100	0.32	0.64	3000	0.6	220	0.051	2500	17 bit	90	124	8	0.5
SZGH-06020DC	60	200	0.64	1.9	3000	1.2	220	0.175	2500	17 bit	116	164	14	1.16
SZGH-06040DC	60	400	1.27	3.9	3000	2.8	220	0.29	2500	17 bit	141	189	14	1.6
SZGH-06060DC	60	600	1.9	5.73	3000	3.5	220	0.39	2500	17 bit	169	217	14	2.07
SZGH-08075DC	80	750	2.4	7.1	3000	3	220	1.82	2500	17 bit	151	191	19	2.9
SZGH-08075BC	80	750	3.5	10.5	2000	3	220	2.63	2500	17 bit	179	219	19	3.9
SZGH-09075DC	86	750	2.4	7.1	3000	3	220	2.45	2500	17 bit	150	198	16	3.1
SZGH-09075BC	86	750	3.5	10.5	2000	3	220	3.4	2500	17 bit	172	220	16	3.9
SZGH-09100CC	86	1000	4	12	2500	4	220	3.7	2500	17 bit	182	230	16	4.2
SZGH-11060DC	110	600	2	6	3000	2.5	220	3.1	2500	17 bit	159	233	19	4.5
SZGH-11080BC	110	800	4	12	2000	3.5	220	5.4	2500	17 bit	189	263	19	6
SZGH-11120DC	110	1200	4	12	3000	5	220	5.4	2500	17 bit	189	263	19	6
SZGH-11120BC	110	1200	6	12	2000	5	220	7.6	2500	17 bit	219	293	19	7.9
SZGH-11180DC	110	1800	6	18	3000	6	220	7.6	2500	17 bit	219	293	19	7.9
SZGH-13100CC	130	1000	4	12	2500	4	220	8.5	2500	17 bit	166	223	22	6.2
SZGH-13130CC	130	1300	5	15	2500	5	220	10.6	2500	17 bit	171	228	22	6.6
SZGH-13150CC	130	1500	6	18	2500	6	220	12.6	2500	17 bit	179	236	22	7.4
SZGH-13150AC	130	1500	10	25	1500	6	220	19.4	2500	17 bit	213	294	22	11.5
SZGH-13200CC	130	2000	7.7	22	2500	7.5	220	15.3	2500	17 bit	192	249	22	10
SZGH-13230AC	130	2300	15	30	1500	9.5	220	27.7	2500	17 bit	241	322	22	14.4
SZGH-13260CC	130	2600	10	25	2500	10	220	19.4	2500	17 bit	209	290	22	11.5
SZGH-13380CC	130	3800	15	45	2500	13.5	220	27.7	2500	17 bit	231	312	22	14.7
						10	380							
SZGH-15360AC	150	3600	18	36	2000	17	220	46	2500	17 bit	248	321	28	17
						9.5	380							
SZGH-18270CC	180	2700	17.2	43	1500	10.5	220	34	2500	17 bit	226	298	35	20
						6.5	380							
SZGH-18300CC	180	3000	19	47	1500	12	220	38	2500	17 bit	232	304	35	21
						7.5	380							
SZGH-18450CC	180	4500	21.5	53	2000	16	220	47	2500	17 bit	243	315	35	22
						9.5	380							
SZGH-18290BC	180	2900	27	67	1000	12	220	61	2500	17 bit	262	334	35	26
						7.5	380							
SZGH-18370BC	180	3700	35	70	1000	16	220	86	2500	17 bit	292	364	35	31
						10	380							
SZGH-18430AC	180	4300	27	67	1500	16	220	61	2500	17 bit	262	334	35	26
						10	380							
SZGH-18550CC	180	5500	35	70	1500	24	220	86	2500	17 bit	292	364	35	30.5
						12	380							
SZGH-18750CC	180	7500	48	96	1500	20	380	95	2500	17 bit	346	418	35	40

Note: Servo motor with Braker is with "/T",Example: SZGH-08075DC/T Absolute type servo motor is with "H", Example: SZGH-13100CC(H)

SERVO DRIVER SERIES

http://www.szghauto.com



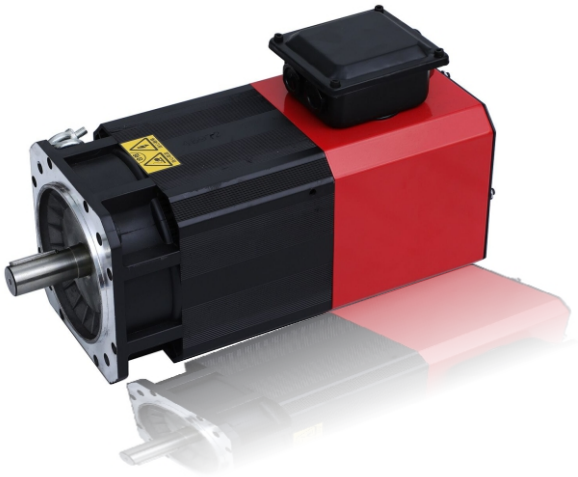


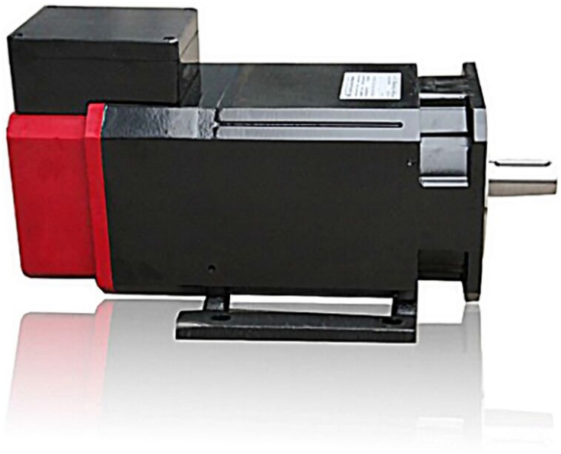


Driver Model	Control Mode			Rated Voltage (A)	Current (A)	Encoder Type	Matched Motor
	Torque	Position	Velocity				
SZGH-SD2004	√	√	√	Single or 3phase 220VAC	9	Increment	50-600W
SZGH-SD2010	√	√	√	Single or 3phase 220VAC	12	Increment	750W-1.0KW
SZGH-SD2026	√	√	√	Single or 3phase 220VAC	18	Increment	750W-3.8KW
SZGH-SD2075	√	√	√	Single or 3phase 220VAC	28	Increment	2.3KW-7.5KW
SZGH-SD4038	√	√	√	3phase 380VAC	18	Increment	2.3KW-3.8KW
SZGH-SD4075	√	√	√	3phase 380VAC	28	Increment	3.5KW-7.5KW
SZGH-SD2004(H)	√	√	√	Single or 3phase 220VAC	9	Absolute	50-600W
SZGH-SD2010(H)	√	√	√	Single or 3phase 220VAC	12	Absolute	750W-1.0KW
SZGH-SD2026(H)	√	√	√	Single or 3phase 220VAC	18	Absolute	750W-3.8KW
SZGH-SD2075(H)	√	√	√	Single or 3phase 220VAC	28	Absolute	2.3KW-7.5KW
SZGH-SD4038(H)	√	√	√	3phase 380VAC	18	Absolute	2.3KW-3.8KW
SZGH-SD4075(H)	√	√	√	3phase 380VAC	28	Absolute	3.5KW-7.5KW
SZGH-SD2004(E)	√	√	√	Single or 3phase 220VAC	9	Ether CAT	50-600W
SZGH-SD2010(E)	√	√	√	Single or 3phase 220VAC	12	Ether CAT	750W-1.0KW
SZGH-SD2026(E)	√	√	√	Single or 3phase 220VAC	18	Ether CAT	750W-3.8KW
SZGH-SD2075(E)	√	√	√	Single or 3phase 220VAC	28	Ether CAT	2.3KW-7.5KW
SZGH-SD4038(E)	√	√	√	3phase 380VAC	18	Ether CAT	2.3KW-3.8KW
SZGH-SD4075(E)	√	√	√	3phase 380VAC	28	Ether CAT	3.5KW-7.5KW

SPINDLE SERVO MOTOR

http://www.szghauto.com





Spindle Motor Model	Rated Power (KW)	Rated Torque (Nm)	Rated Current(A)	Max Speed (RPM)	Rated Speed (RPM)	Matched Driver
SZGH08-3-9.5-1.5/2.2-4-1500	1.5	9.5	3.7	8000	1500	SZGH-S4T1P5
SZGH08-4-14-2.2/3.7-4-1500	2.2	14	6	8000	1500	SZGH-S4T2P2
SZGH09-2-24-3.7/5.5-4-1500	3.7	24	9.5	8000	1500	SZGH-S4T3P7
SZGH10-2-35-5.5/7.5-4-1500	5.5	35	13	8000	1500	SZGH-S4T5P5
SZGH10-3-48-7.5/11-4-1500	7.5	48	17	8000	1500	SZGH-S4T7P5
SZGH10-4-71-11/15-4-1500	11	71	23.5	8000	1500	SZGH-S4T011
SZGH13-2-95-15/18.5-4-1500	15	95	31	8000	1500	SZGH-S4T015
SZGH13-3-117-18.5/22-4-1500	18	117	38	8000	1500	SZGH-S4T018
SZGH13-4-140-22/30-4-1500	22	140	45	8000	1500	SZGH-S4T022
SZGH16-1-191-30/37-4-1500	30	191	60	6000	1500	SZGH-S4T030
SZGH16-2-235-37/45-4-1500	37	235	75	6000	1500	SZGH-S4T037
SZGH16-3-286-45/55-4-1500	45	286	90	6000	1500	SZGH-S4T045
SZGH16-4-350-55/75-4-1500	55	350	110	6000	1500	SZGH-S4T055
SZGH18-1-478-75/90-4-1500	75	478	148	4500	1500	SZGH-S4T075
SZGH18-2-573-90/110-4-1500	90	573	176	4500	1500	SZGH-S4T090
SZGH18-3-700-110/132-4-1500	110	700	210	4500	1500	SZGH-S4T110
SZGH22-1-840-132/160-4-1500	132	840	255	4000	1500	SZGH-S4T132

Note: There are Flange mounting(B5 Series) & Foot-mounting (B3 Series) spindle servo motors.

SPINDLE SERVO DRIVER

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Spindle driver Model	Matched Motor's Power(KW)	Rated Output Current(A)	Rated Output Capacity(KVA)	Min Brake Resistor(Ω)	Cable Diameter(mm^2)
SZGH-S4T1P5	1.5	3.5	2.5	0.5kw/75Ω	2.5
SZGH-S4T2P2	2.2	5	3.8	0.5kw/75Ω	2.5
SZGH-S4T3P7	3.7	8	5.6	1kw/40Ω	4
SZGH-S4T5P5	5.5	13	8.6	1kw/40Ω	6
SZGH-S4T7P5	7.5	17	11	1.5kw/32Ω	6
SZGH-S4T011	11	25	17	1.5kw/26Ω	6
SZGH-S4T015	15	32	20	1.5kw/26Ω	10
SZGH-S4T018	18	39	26	2kw/40Ω*2	10
SZGH-S4T022	22	45	30	2kw/40Ω*2	16
SZGH-S4T030	30	60	40	2.5kw/40Ω*3	25
SZGH-S4T037	37	75	50	2.5kw/40Ω*3	25
SZGH-S4T045	45	90	60	2.5kw/40Ω*4	35
SZGH-S4T055	55	110	72	2.5kw/40Ω*4	50
SZGH-S4T075	75	150	99	2.5kw/40Ω*6	70
SZGH-S4T090	90	178	99	2.5kw/40Ω*8	70
SZGH-S4T110	110	210	145	2.5kw/40Ω*9	90
SZGH-S4T132	132	255	145	2.5kw/40Ω*10	90

Spindle motor



0.8kw 1.5kw 1.5kw 2.2kw 2.2kw 3.2kw 5.5kw

spindle motor list

（Note: The specifications in the table refer to the motor diameter and housing length.）

Model	power (kw)	Voltage (v)	Specification (mm)	Rotation speed (rpm)	frequency (HZ)	Cutter head	Number of bearings	Weight
JY48-300-60k	0.3kw	75v	ϕ48×130	60000	1000	ER8	2	
JY62-0.8-24K	0.8kw	220v	ϕ65×160	24000	400	ER11	2	
JY62-0.8-24K	0.8kw	220v	ϕ65×210	24000	400	ER11	4	
JY65-0.8-24K	0.8kw	220v	ϕ65×195	24000	400	ER11	4	
JY80-1.5L-24K	1.5kw	220v	ϕ80×200	24000	400	ER11	4	
JY80-1.5C-24k	1.5kw	220v	ϕ80×195	24000	400	ER16	4	
JY80-1.5CB-2K	1.5kw	380v	ϕ80×195	24000	400	ER16	4	
JY80-1.5LC-24K	1.5kw	220v	ϕ80×215	24000	400	ER16	4	
JY80-1.5LCB-24K	1.5kw	380v	ϕ80×215	24000	400	ER16	4	
JY80-2.2-24k	2.2kw	220v	ϕ80×240	24000	400	ER20	4	
JY80-2.2B-24K	2.2kw	380v	ϕ80×240	24000	400	ER20	4	
JY80-2.2DL-24K	2.2KW	220v	ϕ80×245	24000	400	ER20	4	
JY80-2.2DLB-24K	2.2KW	380v	ϕ80×245	24000	400	ER20	4	
JY85-2.2M-24K	2.2kw	220v	ϕ80×240	24000	400	ER20	4	
JY85-2.2MB-24K	2.2kw	380v	ϕ80×240	24000	400	ER20	4	
JY85-2.2DTM-24k	2.2kw	220v	ϕ80×245	24000	400	ER20	4	
JY85-2.2DTMB-24k	2.2kw	380v	ϕ85×253	24000	400	ER20	4	
JY100-3.2-24K	3.2kw	220v	ϕ85×220	24000	400	ER20	4	
JY100-3.2B-24K	3.2kw	380v	ϕ100×220	24000	400	ER20	4	
JY100-3.2-24K	3.2kw	220v	ϕ100×250	24000	400	ER20	4	
JY100-3.2B-24K	3.2kw	380v	ϕ100×250	24000	400	ER20	4	
JY100-3.2D-24K	3.2kw	220v	ϕ100×250	24000	400	ER20	4	
JY100-3.2DB-24K	3.2kw	380v	ϕ100×250	24000	400	ER20	4	
JY100-4.5-24K	4.5kw	220v	ϕ100×265	24000	400	ER20	4	

General-purpose inverter





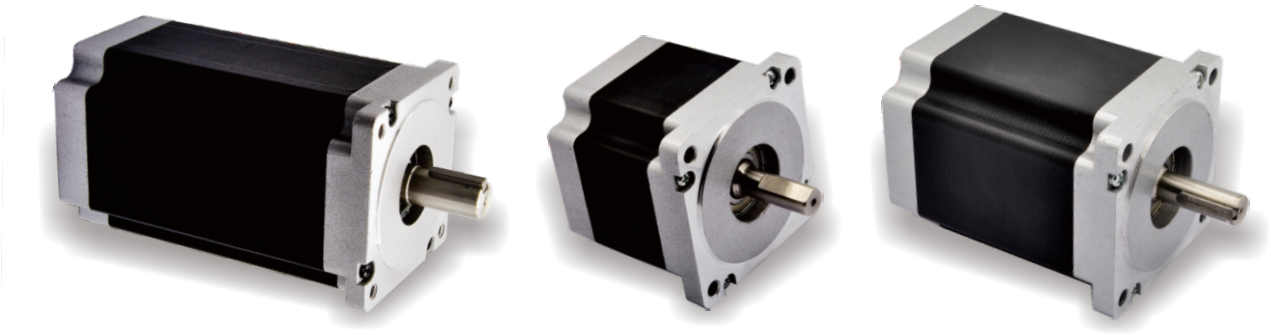
Engraving machine dedicated high-performance inverter display

inverter list

power (kw)	Input voltage (v)	Output voltage (v)	Output frequency	Numberof outputitems	Specificationsize (length×width×height) (mm)	Weight	
1.5kw	220v	0-220v	0-1000HZ	3	150×105×120		
1.5kw	380v	0-380v	0-1000HZ	3	150×105×120		
2.2kw	220v	0-220v	0-1000HZ	3	200×135×148		
2.2kw	380v	0-380v	0-1000HZ	3	150×105×120		
3.0kw	220v	0-220v	0-1000HZ	3	200×135×148		
4.0kw	220v	0-220v	0-1000HZ	3	200×135×148		
4.0kw	380v	0-380v	0-1000HZ	3	200×135×148		
5.5kw	220v	0-220v	0-1000HZ	3	200×135×148		
5.5kw	380v	0-380v	0-1000HZ	3	200×135×148		
7.5kw	220v	0-220v	0-1000HZ	3	280×180×170		
7.5kw	380v	0-220v	0-1000HZ	3	200×135×148		
11kw	220v	0-220v	0-1000HZ	3	280×180×170		
11kw	380v	0-380v	0-1000HZ	3	280×180×170		

The frequency converter is a general-purpose inverter oriented production based on the engraving machine industry. It has been in the leading position in the engraving machine equipment manufacturing industry. The application field includes woodworking engraving machine, stone engraving machine, jade engraving machine, constant pressure water supply, Constant pressure air supply, textile industry, etc.
In the following form, we will introduce you to several inverters commonly used by Beast.

Stepper Motor Series

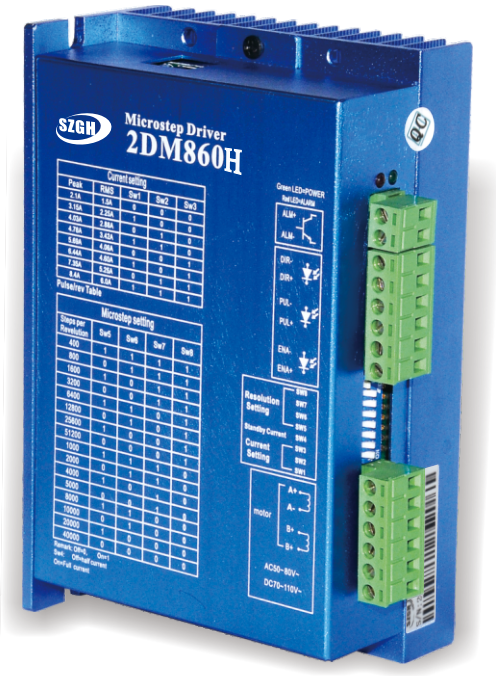


Series	Modle	Frame Size	Axle Diameter (mm)	Length (mm)	Holding Torque (N*m)	Step angle (°)	Current (A/Phase)	Matching Driver
42	42BYGH425-404	NEMA17	5	25	0.17N.m	1.8	0.4	SZGH-2M415
	42BYGH234-408	NEMA17	5	34	0.2N.m	0.9	0.8	
	42BYGH440-408	NEMA17	5	40	0.32N.m	1.8	0.8	
	42BYGH448-810	NEMA17	5	48	0.34N.m	1.8	1	
	42BYGH448-425	NEMA17	5	48	0.4N.m	1.8	2.5	
56	56BYGH441-420	NEMA23	6.35	41	0.4N.m	1.8	2	SZGH-2DM556
	56BYGH255-821	NEMA23	6.35	55	0.9N.m	0.9	2.1	
	56BYGH454-828	NEMA23	6.35	54	0.9N.m	1.8	2.8	
	56BYGH476-828	NEMA23	6.35	76	1.3N.m	1.8	2.8	
	56BYGH476-447	NEMA23	8	76	2.0N.m	1.8	4.7	
	56BYGH480-450	NEMA23	8	80	2.2N.m	1.8	5	
	56BYGH480-830	NEMA23	8	80	2.2N.m	1.8	3	
86	86BYGH465-828	NEMA34	9.5	65	3.5N.m	1.8	2.8	SZGH-2DM860H
	86BYGH480-842	NEMA34	12.7	80	4.5N.m	1.8	4.2	
	86BYGH4101-450	NEMA34	12.7	101	6.0N.m	1.8	5	
	86BYGH4118-842	NEMA34	12.7	118	8.5N.m	1.8	4.2	
	86BYGH4156-845	NEMA34	15.875	156	12N.m	1.8	4.5	SZGH-2M2280
110	110BYGH4115-460	NEMA42	19	115	12N.m	1.8	6.0	SZGH-2M2208
	110BYGH4150-460	NEMA42	19	150	20N.m	1.8	6.0	
	110BYGH4165-460	NEMA42	19	165	24N.m	1.8	6.0	
130	130BYGH3188-368	NEMA43	19	188	24N.m	1.2	6.8	SZGH-3DM2080
	130BYGH3220-368	NEMA43	19	220	28N.m	1.2	6.8	
	130BYGH3252-368	NEMA43	19	252	35N.m	1.2	6.8	
	130BYGH3280-368	NEMA43	19	280	50N.m	1.2	6.8	

- GuanHong provide 2 and 3 phase stepper motor and stepper driver for Nema 17 ,23,34,42 and 43 series, with the DSP-based and adopt latest stepper control technology with many advanced features. The high performance digital stepper drives are featured with extra low noise, very low motor heating, and ultra smooth motor movements at low speed.

Product advantage:

- Speed stability
- Strong power
- Control convenient





Series	Modle	Conntrol Type	Power			Cnofigurtion	Matching Motors(NEMA)
			Voltage(v)		Current(A)		
			AC	DC	Peak		NEMA
2phase stepper driver	SZGH-2M415	Step&Dir	—	24-36	0.21-1.5	DIP Switch	17
	SZGH-2M420	Step&Dir	—	24-36	0.3-2.5	DIP Switch	23
	SZGH-2DM542	Step&Dir		24-48	1.0-4.2	DIP Switch	23,24
	SZGH-2DM556	Step&Dir		24-48	1.4-5.6	DIP Switch	23,24
	SZGH-2DM860H	Step&Dir	30-80	40-110	1.5-6.0	DIP Switch	23,24
	SZGH-2DM2280	Step&Dir	80-240	—	1.6-5.9	DIP Switch	42,43
	SZGH-3DM2080	Step&Dir	80-240	—	1.6-5.9	DIP Switch	42,43

Close Loop Stepper Motor Series



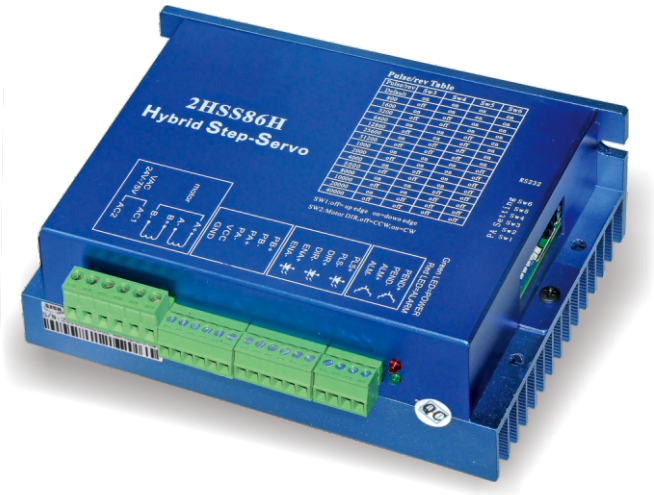


Modle	Frame Size	Axle Diameter (mm)	Encoder (Line)	Holding Torque (N*m)	Length (mm)	Current (A/Phase)	Weight (Kg)	Matching Driver
56BYGH454EC-1000	NEMA23	8	1000	0.9N.m	81	4.0	0.6	2HSS57
56BYGH480EC-1000	NEMA23	8	1000	2.2N.m	105	5.0	1.1	
86BYGH480EC-1000	NEMA34	14	1000	4.5N.m	111	5.0	2.6	2HSS86
86BYGH4118EC-1000	NEMA34	14	1000	8.5N.m	149	6.0	4.3	
86BYGH4156EC-1000	NEMA34	16	1000	12N.m	187	6.0	4.6	2HSS1108
86BYGH3156EC-1000	NEMA34	16	1000	12Nm	187	6.0	4.8	3HSS2208H (220V)
110BYGH4135EC-1000	NEMA42	19	1000	12Nm	166	6.0	6.4	2HSS2208 (220V)
110BYGH4160EC-1000	NEMA42	19	1000	18Nm	191	6.5	8.1	
110BYGH4190EC-1000	NEMA42	19	1000	20Nm	221	6.8	9.2	
130BYGH4205EC-1000	NEMA43	24	1000	28Nm	256	7.5	15.1	
130BYGH4225EC-1000	NEMA43	24	1000	35Nm	276	8.0	17.2	

Closed Loop Stepper Driver

- Adopt 32 bit motor control special DSP core
- To use advanced vector closed loop control technology
- Able to work with 86 series and 110 series closed loop stepper motor / easy servo motor
- Optical-coupled differential signal input
- Pluse frequency 200KHZ
- Micro-stepping setting (200-51200)
- Protection function for over-current, over-presure and error
- Six bit digitron display , convenient to setting parameter and keep check on motor working condition
- Closed loop stepper driver is a new type of easy servo motor driver by SZGH develop,adopt new and special motor control DSP core and apply vector type closed loop control technolgoy ,it already sucessfully slove the problme for common stepper motor missing step , also improve high speed of motor ,reduce motor body heat and vibration , so that promote machine progressing speed and precision .
- the driver paramater setting is with two method : one is serial port communication by PC and RS232, adop specialized adjust software to finish parameter setting second , directly use the driver security panel to setting parameter, the driver itself is with best default value match with motor. so only need adjust the dirver micro-stepping will be ok.





Model	Phase	Power			Configuration	Matching Motors(NEMA)
		Voltage(V)		Current（A）		
		AC	DC	Peak		NEMA
2HSS57	2phase	—	24-48	6.0	RS232	23
2HSS86H	2phase	30-75	24-110	8.0	RS232	34
2HSS1108	2phase	80-220	—	10	LED	42
2HSS2208	2phase	110-240	—	12	LED	43
3HSS2208H	3phase	110-240	—	12	LED	43

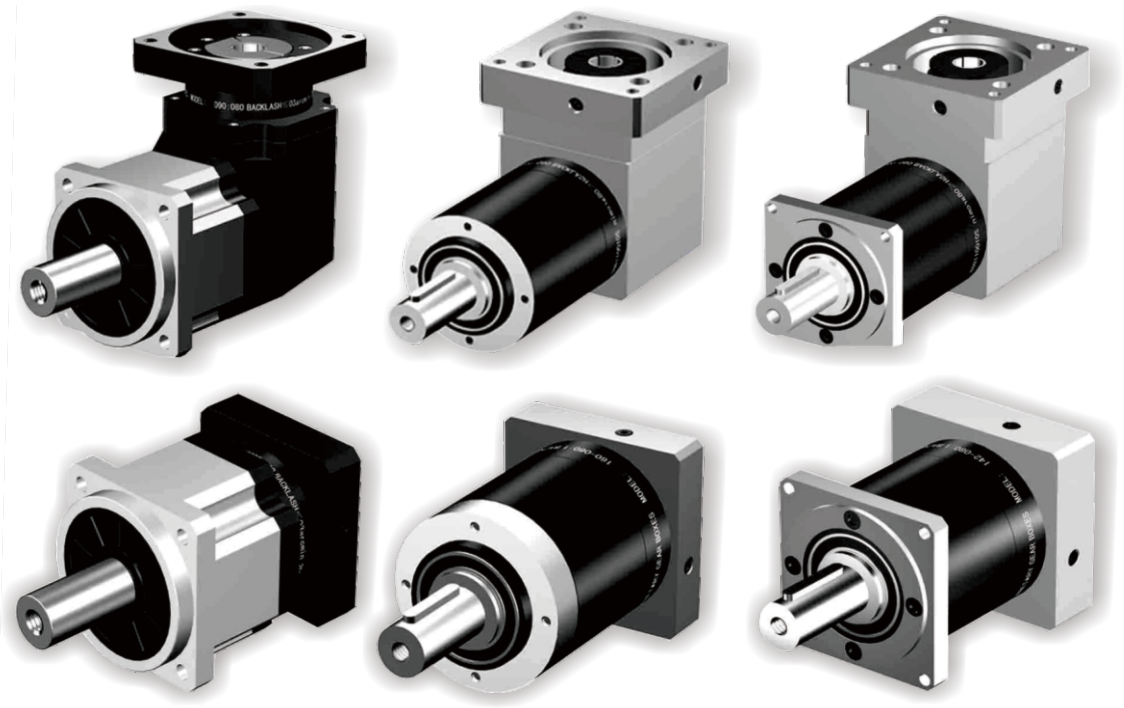






Model	Rated Load	Moving Radius	Structure	Repeat Accuracy	Max Working Range						Weight
					J1	J2	J3	J4	J5	J6	
SZGH-T750-B-6	6KG	750mm	Series	±0.05mm	±165°	+120°/-72°	+87.5°/-72°	±360°	±115°	±450°	70KG
SZGH-T950-A-6	3KG	950mm	Series	±0.05mm	±165°	+120°/-72°	+87.5°/-72°	±360°	±115°	±450°	72KG
SZGH-T1500-C-6	10KG	1500mm	Series	±0.05mm	±165°	+135°/-75°	+78.5°/-76.5°	±360°	±115°	±450°	120KG
SZGH-T1850-D-6	20KG	1850mm	Series	±0.08mm	±180°	+139°/-60°	+56°/-150°	±360°	±115°	±450°	250KG
SZGH-T2100-C-6	10KG	2100mm	Series	±0.08mm	±180°	+139°/-60°	+56°/-150°	±360°	±115°	±450°	255KG
SZGH-T2100-E-6	50KG	2100mm	Series	±0.1mm	±180°	+140°/-77°	+75°/-184°	±360°	±115°	±450°	750KG
SZGH-T2300-3C-6	30KG	2300mm	Series	±0.15mm	±175°	+140°/-77°	+175°/-75°	±360°	±115°	±360°	700KG
SZGH-T2950-3C-6	30KG	2950mm	Series	±0.15mm	±175°	+140°/-77°	+175°/-75°	±360°	±115°	±360°	700KG
SZGH-P1500-B-6	6KG	1500mm	Series	±0.05mm	±165°	+135°/-75°	+75°/-76.5°	±360°	±115°	±450°	125KG
SZGH-P1950-B-6	6KG	1950mm	Series	±0.08mm	±170°	+155°/-54°	+60°/-32.6°	±180°	±115°	±360°	260KG
SZGH-B1000-B-4	6KG	1000mm	Series	±0.05mm	±160°	+90°/-35°	+50°/-70°	±360°	-	-	60KG
SZGH-B1500-C-4	10KG	1500mm	Series	±0.05mm	±165°	+90°/-25°	+35°/-90°	±360°	-	-	110KG
SZGH-B1850-D-4	20KG	1850mm	Series	±0.05mm	±180°	+90°/-30°	+50°/-70°	±360°	-	-	230KG
SZGH-B2100-F-4	100KG	2100mm	Series	±0.1mm	±180°	+140°/-77°	+75°/-184°	±450°	-	-	650KG
SZGH-B2300-E-4	50KG	2300mm	Series	±0.1mm	±180°	+75°/-184°	+75°/-184°	±450°	-	-	660KG
SZGH-B3100-G-4	165KG	3100mm	Series	±0.2mm	±180°	+104°/-76°	+68°/-76°	±450°	-	-	1600KG
SZGH-H1500-B-6	6KG	1500mm	Series	±0.05mm	±165°	+135°/-75°	+78°/-76.5°	±360°	±115°	±450°	120KG
SZGH-H1850-B-6	6KG	1850mm	Series	±0.05mm	±165°	+135°/-75°	+78°/-76.5°	±360°	±115°	±450°	120KG
SZGH-H2100-B-6	6KG	2100mm	Series	±0.05mm	±165°	+135°/-75°	+78°/-76.5°	±360°	±115°	±450°	120KG
SZGH-HZ1500-B-6	6KG	1500mm	Series	±0.05mm	±165°	+135°/-90°	+90°/-90°	±360°	+115°/-140°	±450°	120KG
SZGH-HZ1850-B-6	6KG	1850mm	Series	±0.05mm	±165°	+135°/-90°	+90°/-90°	±360°	+115°/-140°	±450°	120KG
SZGH-M1000-E-6	50KG	1000mm	Series	±0.08mm	±175°	+105°/-63°	+59°/-80°	±360°	±115°	±360°	150KG
SZGH-M1400-3C-6	30KG	1400mm	Series	±0.05mm	±175°	+105°/-63°	+59°/-80°	±360°	±115°	±360°	160KG
SZGH-M1850-3C-6	30KG	1850mm	Series	±0.05mm	±175°	+105°/-63°	+59°/-80°	±360°	±115°	±360°	250KG
SZGH-S450-B-4	3KG	450mm	Scara	±0.03mm	±120°	±125°	185mm	±360°	-	-	15KG
SZGH-S600-B-4	6KG	600mm	Scara	±0.03mm	±125°	±125°	185mm	±360°	-	-	20KG
SZGH-S800-B-4	8KG	800mm	Scara	±0.05mm	±125°	±125°	185mm	±360°	-	-	20KG
SZGH-S600-A-5	30KG	1850mm	Scara	±0.03mm	±175°	+105°/-63°	+59°/-80°	±360°	±115°	±360°	70KG
SZGH-BC600	6KG	600mm	Series	±0.03mm	±360°	±360°	±360°	±360°	±360°	±360°	17KG
SZGH-BC900	6KG	900mm	Series	±0.03mm	±360°	±360°	±360°	±360°	±360°	±360°	19KG
SZGH-BC900pro	6KG	900mm	Series	±0.03mm	±360°	±360°	±360°	±360°	±360°	±360°	19KG

Note: Above robots are just our standard robot,we can support OEM manufactured.



Specification for Gear Reducer							
Continuous output torque (Kgf*m/Nm)	3.4/34	8.5/84	8.5/84	23.4/230	53/520	53/520	114/1120
Max.torque ofl oad (Kgf*m/Nm)	2.5 times torque						
Radius load on output shaft (kgf)	51	96	298	615	863	863	1331
Gear educer inertia(Kg*cm²)	0.306	0.73	5.73	1.09	3.09	3.09	9.3
Range of output shaft of servomotor diameter	within 14	within 19	within 19	within 24	within 42	within 42	within 55
L1 weight (kg)	1.6	3.3	2.8	5	16.4	15.2	37
L2 weight (kg)	2.1	4.3	3.4	7.2	17.6	16.2	46.4
L3 weight (kg)	2.6	5.3	4	8.2	18.9	18.5	
Lead weight	0.12	0.65	0.65	1	1.5	1.5	2.9

Ratio Table of Gear Reducer		
L1	L2	L3
3,4,5	9,12,15,20,25	27,36,45,48,60,75,100,125
3,4,5,7	9,12,15,20,21,25,28,35,49	45,48,60,75,80,100,125,140,175,245,343
3,5,7,10	9,12,15,20,,25,28,30,40,50,70	60,75,80,100,150,200,300,400,500,700,1000
3,5,7,10	9,15,21,25,30,35,49,50,70,100	

Note: There are ZB, ZE, ZF straight series, and ZER ,ZFR,ZBR 90 degree angle gear box .





GUAN-HONG ADVANTAGE









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