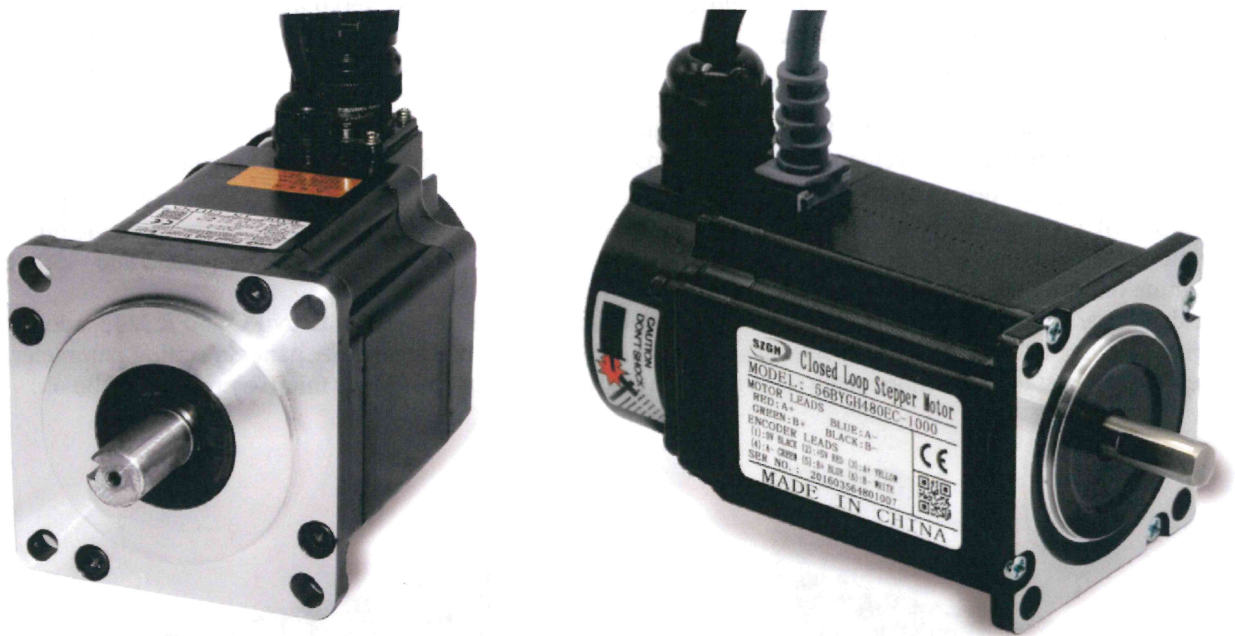


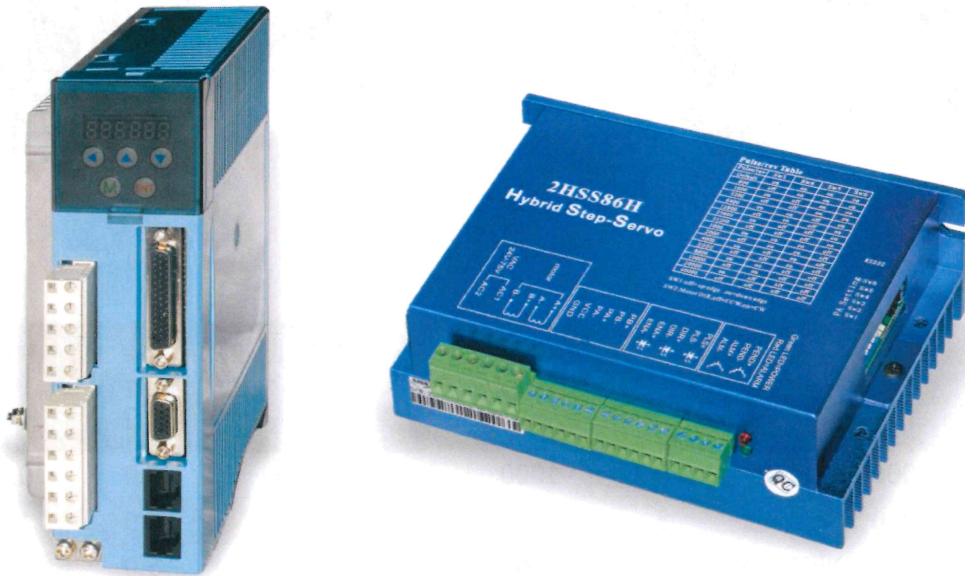
Close Loop Stepper Motor Series



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
- Pulse frequency 200KHZ
- Micro-stepping setting (200-51200)
- Protection function for over-current, over-pressure 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 technology ,it already successfully solve the problem 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 parameter setting is with two method : one is serial port communication by PC and RS232, adopt 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 driver 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

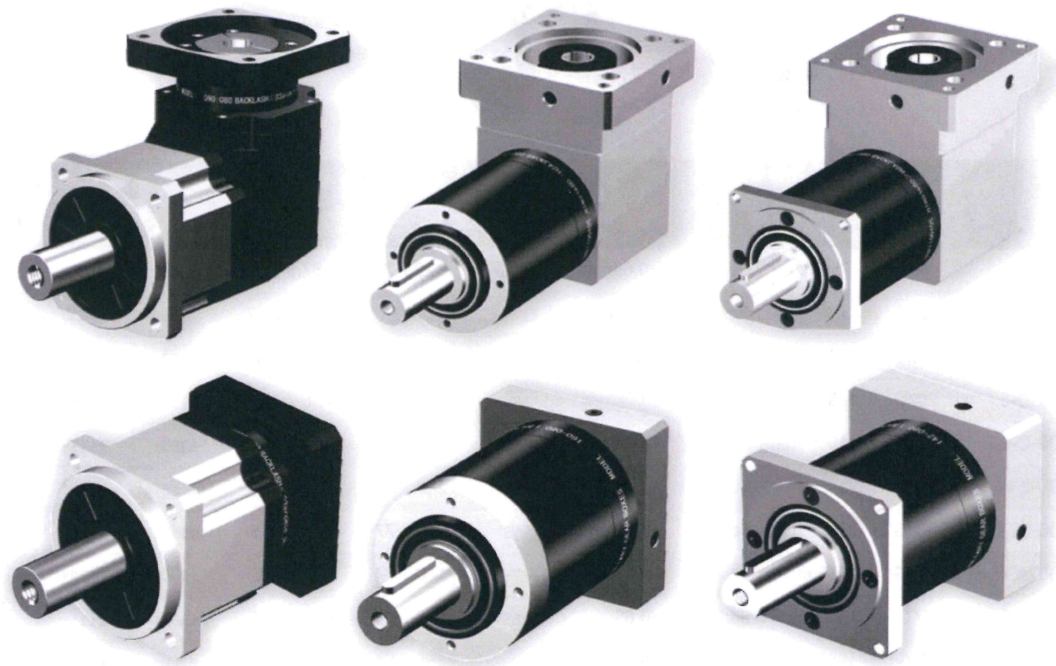


Model	Rated Load	Moving Radius	Structure	Repeat Accuracy	Max Working Range						Weight
					J1	J2	J3	J4	J5	J6	
SZGH-T750-B-6	6KG	750mm	Series	±0.05mm	±165°	+120°/-72°	+87.5°/-72°	±360°	±115°	±450°	70KG
SZGH-T950-A-6	3KG	950mm	Series	±0.05mm	±165°	+120°/-72°	+87.5°/-72°	±360°	±115°	±450°	72KG
SZGH-T1500-C-6	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.

PLANETARY PRECISION GEAR BOXES

<http://www.szghauto.com>



Specification for Gear Reducer

	3.4/34	8.5/84	8.5/84	23.4/230	53/520	53/520	114/1120
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 of load (Kgf*m/Nm)	2.5 times torque						
Radius load on output shaft (kgf)	51	96	298	615	863	863	1331
Gear reducer inertia(Kg*cm ²)	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

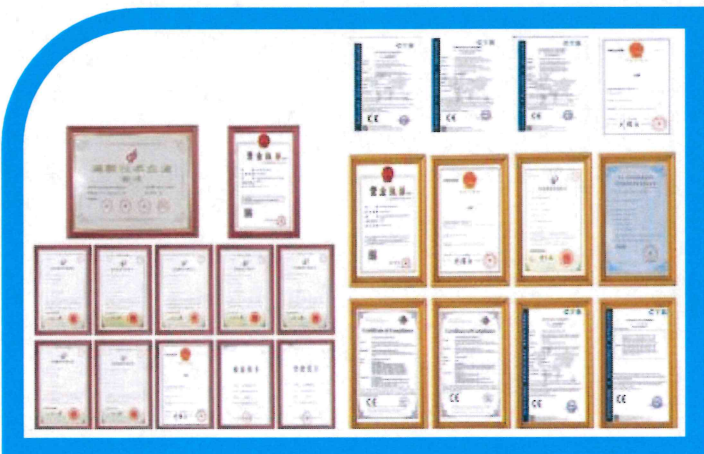
Ratio Table of Gear Reducer

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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