



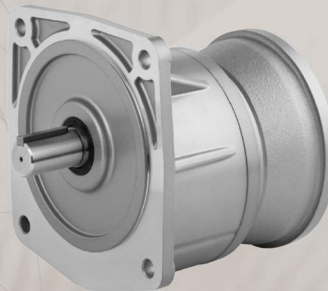
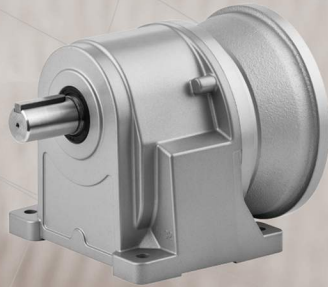
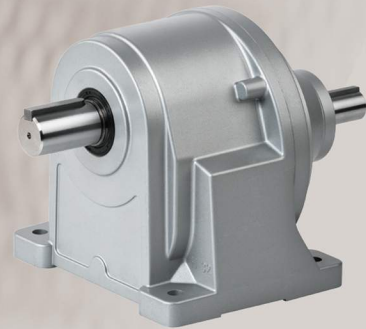
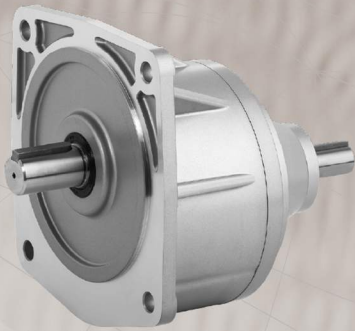
成大齒輪

CHENTRI GEAR

METRIC

# G SERIES

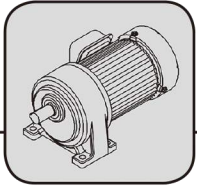
Aluminum Gear Motor



INSTALLATION DIMENSIONS ARE CONSISTENT WITH LEADING MODELS

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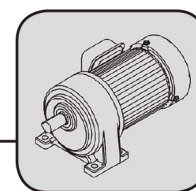
Aluminum Gear Motor

## Company Profile

1. IN 1960, Mr. Mao Cheng Chen, president of the company, and two other colleagues in the department of Mechanical Engineering of the Tainan Engineering College (predecessor of Cheng Kung University) established a company called “Chen Ta Machinery Works” . It was named “Chen Ta” in remembrance of, and also giving acknowledgement to, their alma mater, Cheng Kung University (called Chen Ta in short) from where Mr. Chen and his colleagues had received their specialized mechanical education.
2. Chen Ta Machinery Works specialized in machining jobs such as grinding/re-building of the crankshafts of automobile and vessel engines, cylinder overhaul, and diesel engine adjustment. Back then, she was the best of her field in southern Taiwan. Due to the excellent technique and the cordial service, the company name was soon well known and the business became prosperous.
3. In 1971, to support a long-term operation, the company needed her own products, so the technical cooperation between CHENTA and Japan reducer manufacturer began. From then on, CHENTA started manufacturing her own brand, “CHENTA GEAR REDUCERS”. Now the company has about 100 employees, and her products have been marketing to the world under the name of “CHENTA”. The major markets are in Taiwan, Asia, and North America. In Taiwan, she remains at the top of the field and also established branch offices in America and in Shanghai (in China).
4. Since the beginning of the company, our conviction is to “Gather excellent human resource, and research and manufacture high quality products”. Our product policy is targeting at “Guaranteed Quality”, “On Time Delivery”, “Competitive Prices”, “Rational Production”, and “International Marketing”.
5. With more than 50 years of experience in mechanical manufacturing and honest operation, a fine culture has naturally grown inside the corporation. This spirit is the most precious resource of our company. The motto of our company is based on “INNOVATION”, “HONESTY”, “DILIGENCE”, and “EFFICIENCY”.
6. Influenced gradually under such fine culture, all employees in CHENTA work hard and take responsibility. They cooperate with each other and innovate actively. With their efforts, CHENTA keep developing and growing up to fight for the mutual benefits.
7. To reach our long term operation goal, based on the company’s existing cultural resources, we will: have high expertise in the field; serve our customers with respect; constantly improve ourselves; manufacture high quality and affordable speed reducers for customers throughout the world, all so that we can grow together with our customers.

### COMPANY PROFILE

Company Name: CHENTA PRECISION MACHINERY IND. INC.  
Established: 1971  
Employee: 120 persons  
Plant Sizes: Jen Wu Plant: 7000m<sup>2</sup>  
Suzhou Plant: 30000M<sup>2</sup>



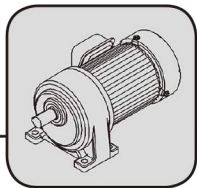
Indication of G-Series Motor								
Model	Frame	Output	Ratio	Voltage	Accessory			
SHM Horizontal Gear Motor	18 : Frame 18 22 : Frame 22	100 : 100W(1/8HP) 200 : 200W(1/4HP)	3-1800	AC : 1 Phase 110/220V 50/60Hz AV : 1 Phase 110/220V 60Hz AVE : 1 Phase 110/220V 50Hz CE : 1 Phase 120/240V S3 : 3 Phase 220/380V S4 : 3 Phase 220/440V S7 : 3 Phase 230/415V	M : Electromagnetic Brake			
SVM Vertical Gear Motor	28 : Frame 28	400 : 400W(1/2HP)						
SHX Horizontal Gear Motor - High Ratio	32 : Frame 32 40 : Frame 40	750 : 750W(1HP) 1500 : 1500W(2HP)						
SVX Vertical Gear Motor - High Ratio	50 : Frame 50	2200 : 2200W(3HP) 3700 : 3700W(5HP)						
						* AC : For 1Phase 200W. AV, AVE : For 1 phase 400~1500W		

SHM SERIES

Terminal Box Direction

Model	G1-Left Side (Standard Type)	G2-Right Side	G3-Upper Side	G4-Lower Side
SHM				
SVM				
Wire Inlet Direction	LD     LT RD     RT	RD     RT	TL TR	DL DR
	LF     LB RF     RB	RF     RB	TF TB	DF DB

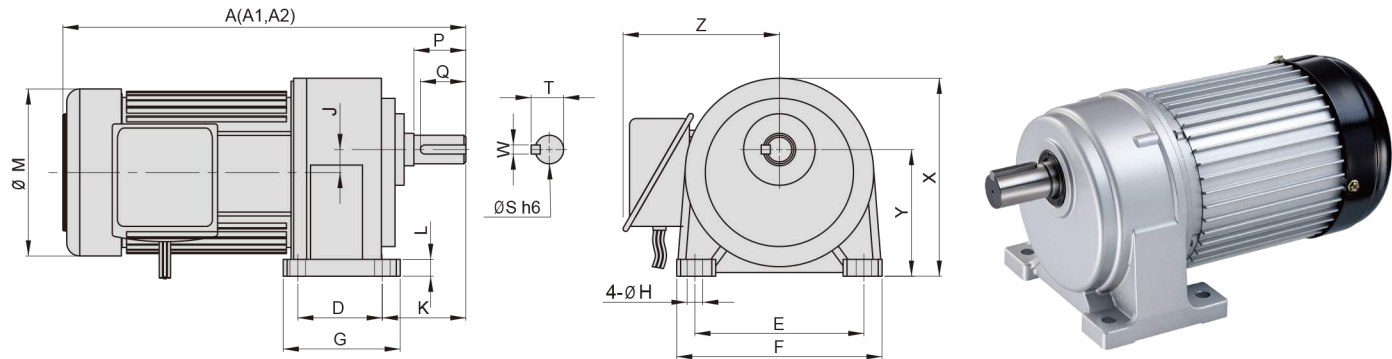
\* Please contact us while the motor is running under the low temperature environment.



Aluminum Gear Motor

## SHM Horizontal Aluminum Alloy Gear Motor

SHM SERIES



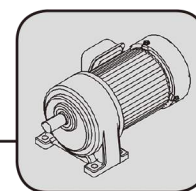
Dimension (mm)

Output W(HP)	Ratio	Housing	Code	A	A1	A2	D	E	F	G	H	J	K	L	M	X	Y	Z	Output Shaft				
																			S	P	W	T	Q
100W (1/8 HP)	3~50 (60~200)	1	18	250	285	250	40	110	135	65	9	16	49	10	130	131	88.5	120	18	30	5	20	25
	60~200	2	22	280	320	280	65	130	158	90	11	17.65	60	13	130	153	97.5	120	22	40	7	25	35
200W (1/4 HP)	3~10 (12.5~90)	1	18	270	305	290	40	110	135	65	9	16	49	10	130	131	88.5	120	18	30	5	20	25
	12.5~90 (100~200)	2	22	305	340	325	65	130	158	90	11	17.65	60	13	130	153	97.5	120	22	40	7	25	35
	100~200	3	28	315	350	335	90	140	180	120	11	24.22	66.5	16	130	174	116	120	28	45	7	31	40
400W (1/2 HP) Standard for 3-phase	3~10 (12.5~90)	2	22	325	340	-	65	130	158	90	11	17.65	63	13	130	153	97.5	135	22	40	7	25	35
	12.5~90 (100~200)	3	28	335	350	-	90	140	180	120	11	24.22	68.5	16	130	174	116	135	28	45	7	31	40
	100~200	4	32	380	395	-	130	170	210	165	12	30.22	70	20	130	198	130	135	32	55	10	35	50
400W (1/2 HP) Standard for 1-phase	3~10 (12.5~90)	2	22	340	350	360	65	130	158	90	11	17.65	63	13	162	153	97.5	135	22	40	7	25	35
	12.5~90 (100~200)	3	28	360	370	380	90	140	180	120	11	24.22	68.5	16	162	174	116	135	28	45	7	31	40
	100~200	4	32	400	410	415	130	170	210	165	12	30.22	70	20	162	198	130	135	32	55	10	35	50
750W (1 HP)	(3~25)	2	22	345	355	380	65	130	158	90	11	17.65	60	13	162	153	97.5	135	22	40	7	25	35
	3~25 (30~120)	3	28	370	375	410	90	140	180	120	11	24.22	66.5	16	162	174	116	135	28	45	7	31	40
	30~120 (125~200)	4	32	400	410	440	130	170	210	165	12	30.22	70	20	162	198	130	135	32	55	10	35	50
	125~200	5	40	465	465	500	150	210	265	198	15	36	89	24	162	250	160	135	40	65	10	43	60
1500W (2 HP)	(3~30)	3	28	420	430	-	90	140	180	120	11	24.22	68.5	16	192	174	116	135	28	45	7	31	40
	3~30 (40~100)	4	32	450	450	475	130	170	210	165	13	30.22	70	20	192	198	130	146	32	55	10	35	50
	40~100 (110~150)	5	40	510	510	510	150	210	265	198	15	36	89	24	192	250	160	146	40	65	10	43	60
2200W (3 HP)	110~180	6	50	560	560	560	170	265	319	238	18	51	120	31.5	192	308	200	146	50	80	14	54	75
	3~40 (45~80)	5	40	530	530	-	150	210	265	198	15	36	89	24	220	250	160	160	40	65	10	43	60
	45~100	6	50	580	580	-	170	265	319	238	18	51	120	31.5	220	308	200	160	50	80	14	54	75
3700W (5 HP)	3~10 (15~60)	5	40	560	560	-	150	210	265	198	15	36	89	24	220	250	160	160	40	65	10	43	60
	15~60	6	50	620	620	-	170	265	319	238	18	51	120	31.5	220	308	200	160	50	80	14	54	75

※ Ratio showed in parenthesis ( ) are used for light loading.

NOTES/ (1) A : With 3-phase motors. / A1:With 3-phase motors. / A2: With single-phase motors.

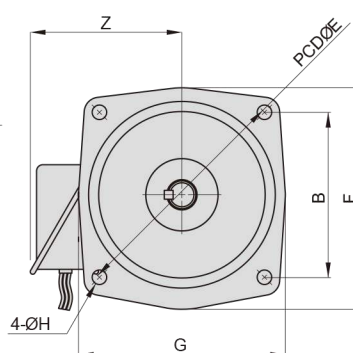
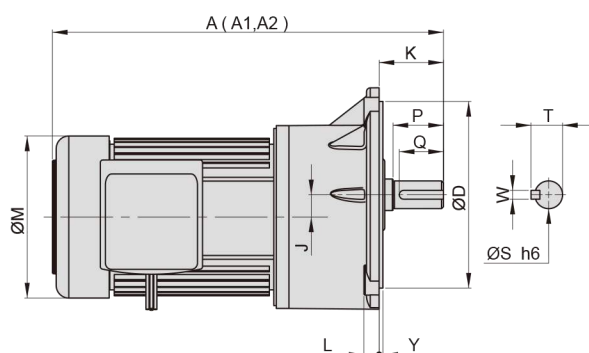
(2) Refer to dimension of single-phase brake motor, please contact us.



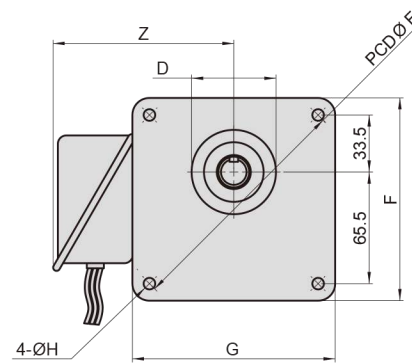
# SVM Vertical Aluminum Alloy Gear Motor



SVM SERIES



A Type Flange  
(Code22、28、32、40、50)



\* B Type Flange  
(Code18)

## Dimension(mm)

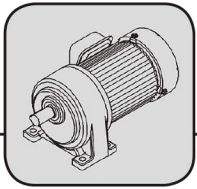
Output W(HP)	Ratio	Housing	Code	A	A1	A2	B	D	E	F	G	H	J	K	L	M	Y	Z	Output Shaft				
																			S	P	W	T	Q
100W (1/8 HP)	3~50 (60~200)	1	18*	250	285	250	-	50	140	119	119	9	16	40	12	130	-	120	18	30	5	20	25
	60~200	2	22	280	320	280	130.8	148	185	176	164	11	17.65	47	12	130	3	120	22	40	7	25	35
200W (1/4 HP)	3~10 (12.5~90)	1	18*	270	305	290	-	50	140	119	119	9	16	40	12	130	-	120	18	30	5	20	25
	12.5~90 (100~200)	2	22	305	340	325	130.8	148	185	176	164	11	17.65	47	12	130	3	120	22	40	7	25	35
	100~200	3	28	315	350	335	155.6	170	220	216	216	11	24.22	60	15	130	6	120	28	45	7	31	40
400W (1/2 HP) Standard for 3-phase	3~10 (12.5~90)	2	22	325	340	-	130.8	148	185	176	164	11	17.65	50	12	130	3	135	22	40	7	25	35
	12.5~90 (100~200)	3	28	335	350	-	155.6	170	220	216	216	11	24.22	60	15	130	6	135	28	45	7	31	40
	100~200	4	32	400	410	-	180.3	185	255	241	225	13	30.22	65	15	130	4	135	32	55	10	35	50
	(3~25)	2	22	340	350	370	130.8	148	185	176	164	11	17.65	50	12	162	3	135	22	40	7	25	35
400W (1/2 HP) Standard for 1-phase	12.5~90 (100~200)	3	28	360	370	380	155.6	170	220	216	216	11	24.22	60	15	162	6	135	28	45	7	31	40
	100~200	4	32	400	410	450	180.3	185	255	241	225	13	30.22	65	15	162	4	135	32	55	10	35	50
	(3~25)	2	22	345	355	400	130.8	148	185	176	164	11	17.65	47	12	162	3	135	22	40	7	25	35
750W (1 HP)	3~25 (30~120)	3	28	360	370	410	155.6	170	220	216	216	11	24.22	60	15	162	6	135	28	45	7	31	40
	30~120 (125~200)	4	32	400	410	450	180.3	185	255	241	225	13	30.22	65	15	162	4	135	32	55	10	35	50
	125~200	5	40	465	465	500	219.3	230	310	291	272	15	36	85	21	162	5	135	40	65	10	43	60
1500W (2 HP)	(3~30)	3	28	420	430	-	155.6	170	220	216	216	11	24.22	60	15	192	6	135	28	45	7	31	40
	3~30 (40~100)	4	32	460	465	450	180.3	185	255	241	225	13	30.22	65	15	192	4	146	32	55	10	35	50
	40~100 (110~150)	5	40	510	510	510	219.3	230	310	291	272	15	36	85	21	192	5	146	40	65	10	43	60
2200W (3 HP)	110~180	6	50	560	560	560	275.8	280	390	369	341	18	51	92	25	192	5	146	50	80	14	54	75
	3~40 (45~80)	5	40	530	530	-	219.3	230	310	291	272	15	36	85	21	220	5	160	40	65	10	43	60
	45~100	6	50	580	580	-	275.8	280	390	369	341	18	51	92	25	220	5	160	50	80	14	54	75
3700W (5 HP)	3~10 (15~60)	5	40	560	560	-	219.3	230	310	291	272	15	36	85	21	220	5	160	40	65	10	43	60
	15~60	6	50	620	620	-	275.8	280	390	369	341	18	51	92	25	220	5	160	50	80	14	54	75

\* Code 18 : Belongs to B type flange.

※ Ratio showed in parenthesis ( ) are used for light loading.

NOTES/ (1) A : With 3-phase motors. / A1:With 3-phase brake motors. / A2: With single-phase motors.

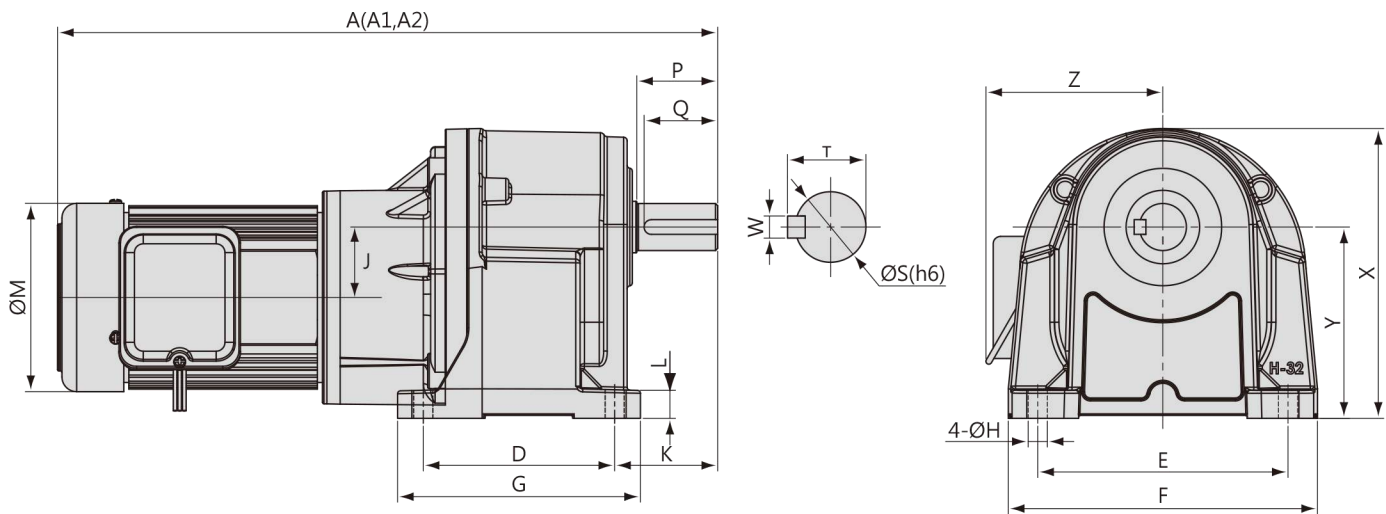
(2) Refer to dimension of single-phase brake motor, please contact us.



Aluminum Gear Motor

# SHX Horizontal High Ratio Gearmotor

SHX SERIES



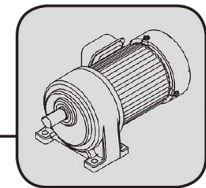
Dimension (mm)

Output W(HP)	Ratio	Housing	Code	A	A1	A2	D	E	F	G	H	J	K	L	M	X	Y	Z	Output Shaft				
																			S	P	W	T	Q
100W	(250~1800)	1#+2#	22	350	385	350	65	130	158	90	11	33.65	63	13	130	153	97.5	135	22	40	7	25	35
	250~1800	1#+3#	28	350	385	350	90	140	180	120	11	40.22	68.5	16	130	174	116	135	28	45	7	31	40
200W	(250~1800)	1#+3#	28	385	420	405	90	140	180	120	11	40.22	68.5	16	130	174	116	135	28	45	7	31	40
	250~1800	2#+4#	32	435	470	455	130	170	210	165	13	47.87	70	20	130	198	130	135	32	55	10	35	50
400W (Standard for 3-phase)	(250~1800)	2#+4#	32	455	470	500	130	170	210	165	13	47.87	70	20	130	198	130	135	32	55	10	35	50
	250~1800	3#+5#	40	510	525	555	150	210	265	198	15	52.22	89	24	130	250	162	146	40	65	10	43	60
400W (Standard for 1-phase)	(250~1800)	2#+4#	32	455	470	500	130	170	210	165	13	47.87	70	20	162	198	130	135	32	55	10	35	50
	250~1800	3#+5#	40	510	525	555	150	210	265	198	15	52.22	89	24	162	250	162	146	40	65	10	43	60

※ Ratio showed in parenthesis ( ) are used for light loading.

NOTES/ (1) A : With 3-phase motors. / A1:With 3-phase brake motors. / A2: With single-phase motors.

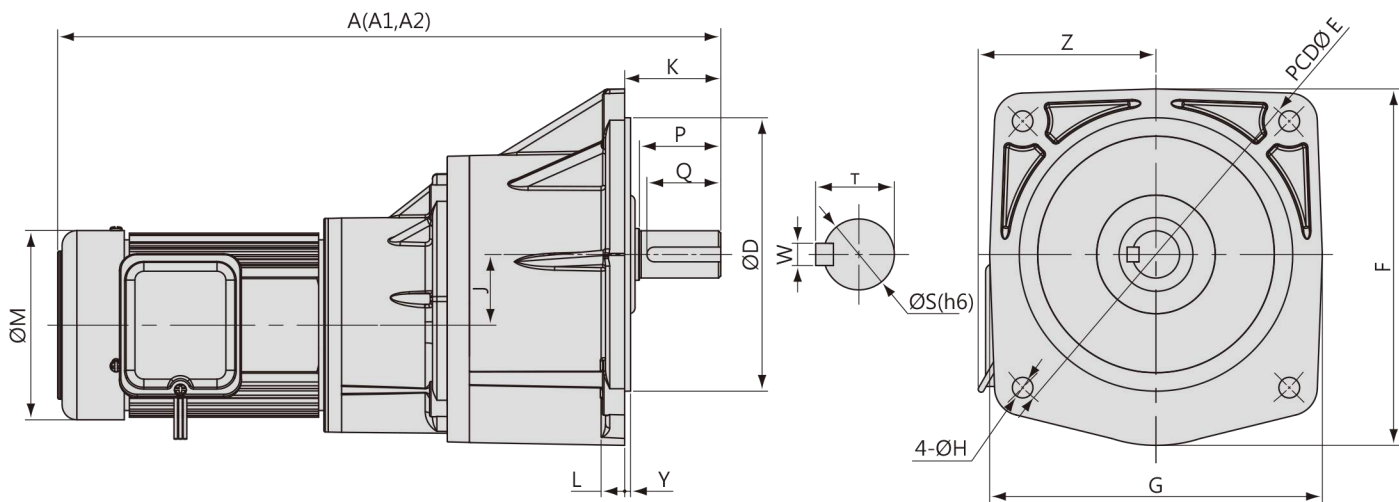
(2) Refer to dimension of single-phase brake motor, please contact us.



# SVX Horizontal High Ratio Gearmotor



SVX SERIES



Dimension (mm)

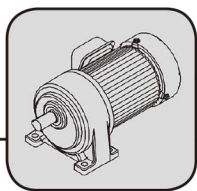
Output W(HP)	Ratio	Housing	Code	A	A1	A2	D	E	F	G	H	J	K	L	M	Y	Z	Output Shaft				
																		S	P	W	T	Q
100W	(250~1800)	1#+2#	22	350	385	350	148	185	176	164	11	33.65	50	12	130	3	135	22	40	7	25	35
	250~1800	1#+3#	28	350	385	350	170	220	216	216	11	40.22	60	15	130	6	135	28	45	7	31	40
200W	(250~1800)	1#+3#	28	385	420	405	170	220	216	216	11	40.22	60	15	130	6	135	28	45	7	31	40
	250~1800	2#+4#	32	435	470	455	185	255	241	225	13	47.87	65	15	130	4	135	32	55	10	35	50
400W (Standard for 3-phase)	(250~1800)	2#+4#	32	455	470	500	185	255	241	225	13	47.87	65	15	130	4	135	32	55	10	35	50
	250~1800	3#+5#	40	510	525	555	230	310	291	272	15	52.22	85	21	130	5	135	40	65	10	43	60
400W (Standard for 1-phase)	(250~1800)	2#+4#	32	455	470	500	185	255	241	225	13	47.87	65	15	162	4	135	32	55	10	35	50
	250~1800	3#+5#	40	510	525	555	230	310	291	272	15	52.22	85	21	162	5	135	40	65	10	43	60

※ Ratio showed in parenthesis ( ) are used for light loading.

NOTES/ (1) A : With 3-phase motors. / A1:With 3-phase brake motors. / A2: With single-phase motors.

(2) Refer to dimension of single-phase brake motor, please contact us.



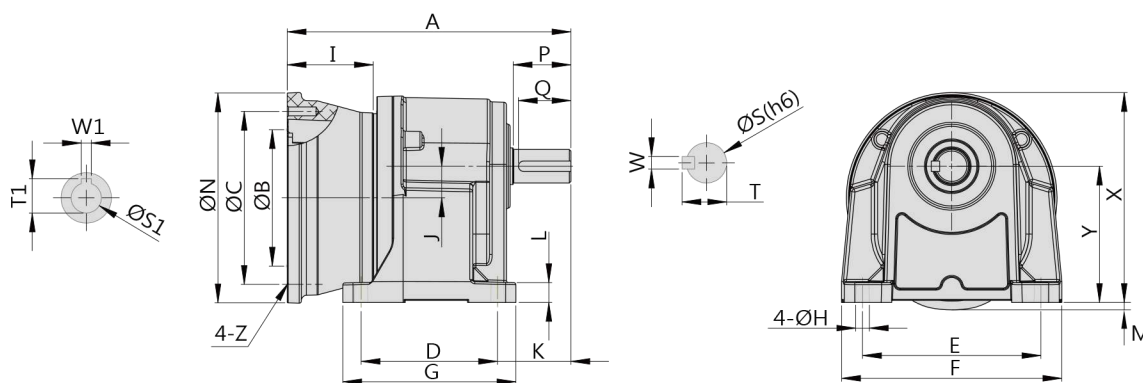
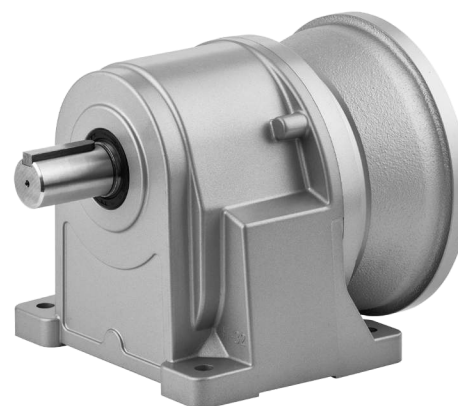


Aluminum Gear Motor

## SHF Horizontal Flange Reducer

SHF SERIES

Model of Flange Type Reducer			
SHF	18	100	20
Model	Code	Output	Ratio
SHF : Horizontal flange type gear reducer.	Ø18:18 Ø22:22 Ø28:28 Ø32:32 Ø40:40	100:100W 200:200W 400:400W 750:750W 1500:1500W 2200:2200W 3700:3700W	3~200

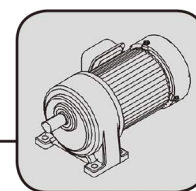


Dimension (mm)

Output W (HP)	Ratio	Code	A	B	C	D	E	F	G	H	I	J	K	L	M	N	X	Y	Z	Output Shaft					Input Bore		
																				Output		Keyway			Bore	Keyway	
																				S	P	W	T	Q	S1	W1	T1
100W 1/8HP	3-50 (60~200)	18	160	110	130	40	110	135	65	9	55	16	50	10.5	8	160	131	88.5	M8	Ø18	30	5	20	25	Ø11	4	12.8
	60-200	22	190	110	130	65	130	158	90	11	55	17.65	60	13	1	160	153	97.5	M8	Ø22	40	7	25	35	Ø11	4	12.8
200W 1/4HP	3-10 (12.5~90)	18	160	110	130	40	110	135	65	9	55	16	50	10.5	8	160	131	88.5	M8	Ø18	30	5	20	25	Ø11	4	12.8
	12.5-90 (100~200)	22	190	110	130	65	130	158	90	11	55	17.65	60	13	1	160	153	97.5	M8	Ø22	40	7	25	35	Ø11	4	12.8
400W 1/2HP	100-200	28	205	110	130	90	140	180	120	11	55	24.22	66.5	16	-	160	178	116	M8	Ø28	45	7	31	40	Ø11	4	12.8
	3-10 (12.5~90)	22	190	110	130	65	130	158	90	11	55	17.65	60	13	1	160	153	97.5	M8	Ø22	40	7	25	35	Ø14	5	16.3
	12.5-90 (100~200)	28	205	110	130	90	140	180	120	11	55	24.22	66.5	16	-	160	178	116	M8	Ø28	45	7	31	40	Ø14	5	16.3
750W 1HP	100-200	32	255	110	130	130	170	210	165	13	55	30.22	70	20	-	160	216	130	M8	Ø32	55	10	35	50	Ø14	5	16.3
	3-25 (30~120)	28	235	130	165	90	140	180	120	11	82	24.22	66.5	16	9	200	178	116	M10	Ø28	45	7	31	40	Ø19	6	21.8
	30-120 (125~200)	32	280	130	165	130	170	210	165	13	82	30.22	70	20	1	200	216	130	M10	Ø32	55	10	35	50	Ø19	6	21.8
1500W 2HP	125-200	40	330	130	165	150	210	265	205	15	82	36	85	23	-	200	250	160	M10	Ø40	65	10	43	60	Ø19	6	21.8
	3-30	32	280	130	165	130	170	210	165	13	82	30.22	70	20	1	200	216	130	M10	Ø32	55	10	35	50	Ø24	8	27.3
	40-100	40	330	130	165	150	210	265	205	15	82	36	85	23	-	200	250	160	M10	Ø40	65	10	43	60	Ø24	8	27.3
2200W 3HP	3-40	40	350	180	215	150	210	265	205	15	95	36	85	23	-	250	250	160	M14	Ø40	65	10	43	60	Ø28	8	31.3
3700W 5HP	3-10	40	350	180	215	150	210	265	205	15	95	36	85	23	-	250	250	160	M14	Ø40	65	10	43	60	Ø28	8	31.3

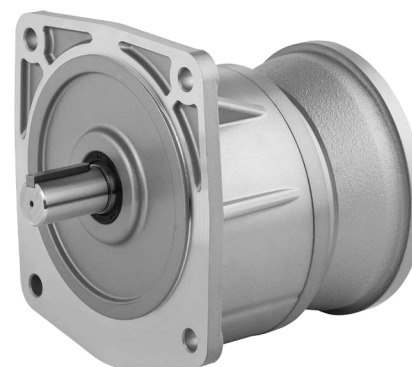
※ Ratio showed in parenthesis ( ) are used for light loading.

Note : Available for IEC motors.

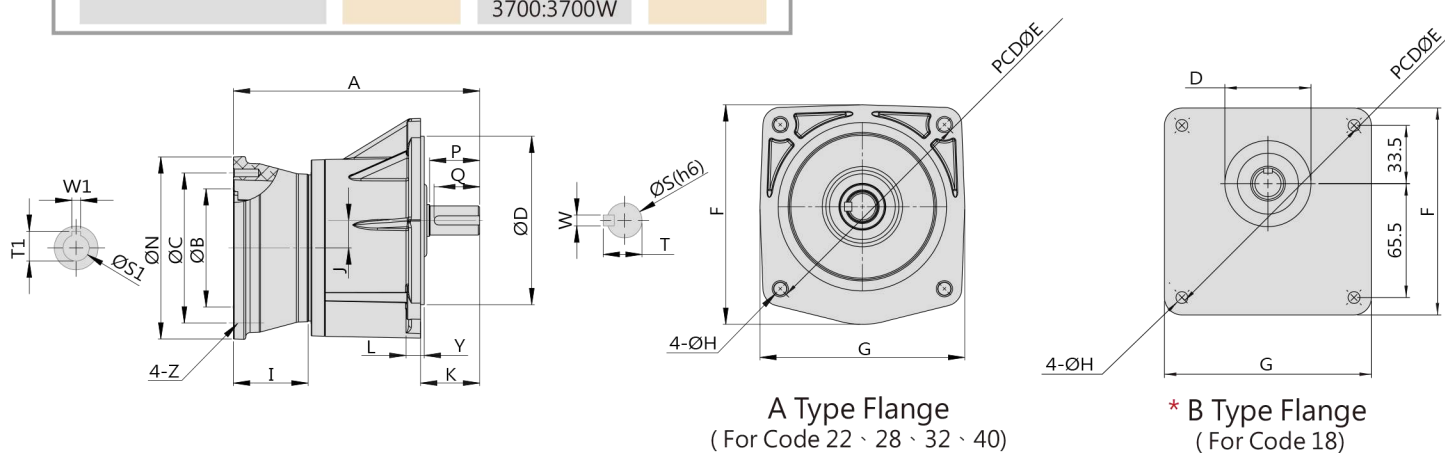


## SVF Vertical Flange Reducer

Model of Flange Type Reducer			
<b>SVF</b>	<b>18</b>	<b>100</b>	<b>20</b>
Model	Code	Output	Ratio
SVF : Vertical flange type gear reducer.	Ø18:18 Ø22:22 Ø28:28 Ø32:32 Ø40:40	100:100W 200:200W 400:400W 750:750W 1500:1500W 2200:2200W 3700:3700W	3~200



SVF SERIES



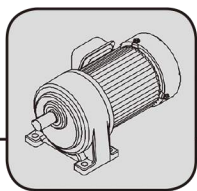
A Type Flange  
(For Code 22、28、32、40)

\* B Type Flange  
(For Code 18)

### Dimension (mm)

Output W (HP)	Ratio	Code	A	B	C	D	E	F	G	H	I	J	K	L	N	Y	Z	Output Shaft					Input Bore		
																		Shaft		Keyway			Bore	Keyway	
																		S	P	W	T	Q	S1	W1	T1
100W 1/8HP	3-50 (60~200)	18*	160	110	130	50	140	119	119	9	55	16	40	12	160	-	M8	Ø18	30	5	20	25	Ø11	4	12.8
	60-200	22	190	110	130	148	185	176	164	11	55	17.65	47	12	160	3	M8	Ø22	40	7	25	35	Ø11	4	12.8
200W 1/4HP	3-10 (12.5~90)	18*	160	110	130	50	140	119	119	9	55	16	40	12	160	-	M8	Ø18	30	5	20	25	Ø11	4	12.8
	12.5-90 (100~200)	22	190	110	130	148	185	176	164	11	55	17.65	47	12	160	3	M8	Ø22	40	7	25	35	Ø11	4	12.8
400W 1/2HP	100-200	28	205	110	130	170	220	216	216	11	55	24.22	60	15	160	6	M8	Ø28	45	7	31	40	Ø11	4	12.8
	3-10 (12.5~90)	22	190	110	130	148	185	176	164	11	55	17.65	47	12	160	3	M8	Ø22	40	7	25	35	Ø14	5	16.3
	12.5-90 (100~200)	28	205	110	130	170	220	216	216	11	55	24.22	60	15	160	6	M8	Ø28	45	7	31	40	Ø14	5	16.3
750W 1HP	100-200	32	255	110	130	185	255	241	225	13	55	30.22	70	15	160	4	M8	Ø32	55	10	35	50	Ø14	5	16.3
	3-25 (30~120)	28	235	130	165	170	220	216	216	11	82	24.22	60	15	200	6	M10	Ø28	45	7	31	40	Ø19	6	21.8
	30-120 (125~200)	32	280	130	165	185	255	241	225	13	82	30.22	70	15	200	4	M10	Ø32	55	10	35	50	Ø19	6	21.8
1500W 2HP	125-200	40	330	130	165	230	310	290	268	15	82	36	85	21	200	5	M10	Ø40	65	10	43	60	Ø19	6	21.8
	3-30	32	280	130	165	185	255	241	225	13	82	30.22	70	15	200	4	M10	Ø32	55	10	35	50	Ø24	8	27.3
2200W 3HP	40-100	40	330	130	165	230	310	290	268	15	82	36	85	21	200	5	M10	Ø40	65	10	43	60	Ø24	8	27.3
	3-40	40	350	180	215	230	310	290	268	15	95	36	85	21	250	5	M14	Ø40	65	10	43	60	Ø28	8	31.3
3700W 5HP	3-10	40	350	180	215	230	310	290	268	15	95	36	85	21	250	5	M14	Ø40	65	10	43	60	Ø28	8	31.3

※ Ratio showed in parenthesis ( ) are used for light loading.  
 \* Code 18 : Belongs to B type flange. Note : Available for IEC motors.

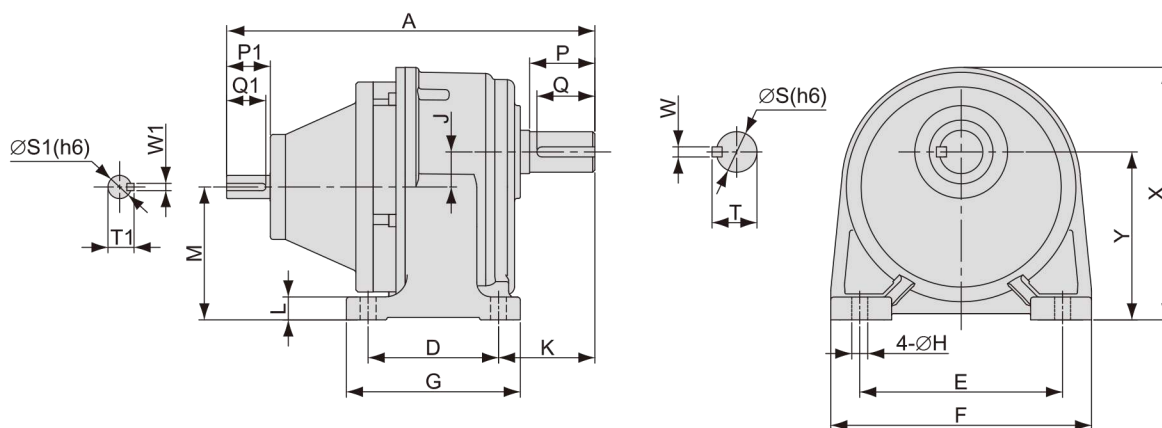
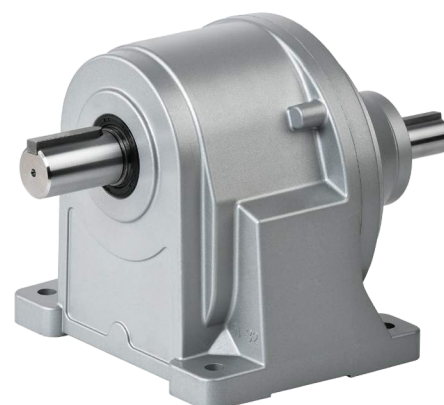


Aluminum Gear Motor

## SHD Horizontal Double Shaft Reducer

SHD SERIES

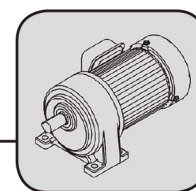
Model of Double Shaft Type Reducer			
Model	Code	Output	Ratio
SHD : Horizontal double shaft type gear reducer.	Ø18:18 Ø22:22 Ø28:28 Ø32:32	100:100W 200:200W 400:400W 750:750W 1500:1500W	3~200



Dimension (mm)

Output W (HP)	Ratio	Code	A	D	E	F	G	H	J	K	L	M	X	Y	Output Shaft					Input Shaft				
															S	P	W	T	Q	S1	P1	W1	T1	Q1
100W 1/8HP	3-50 (60~200)	18	164.5	40	110	135	65	9	16	45	10	72.5	131	88.5	18	30	5	20	25	14	25	5	16	22
	60-200	22	195.5	65	130	158	90	11	17.65	60	13	80	153	97.5	22	40	7	25	35	14	25	5	16	22
200W 1/4HP	3-10 (12.5~90)	18	164.5	40	110	135	65	9	16	45	10	72.5	131	88.5	18	30	5	20	25	14	25	5	16	22
	12.5-90 (100~200)	22	195.5	65	130	158	90	11	17.65	60	13	80	153	97.5	22	40	7	25	35	14	25	5	16	22
400W 1/2HP	100-200	28	210	90	140	180	120	11	24.22	66.5	16	92	174	116	28	45	7	31	40	14	25	5	16	22
	3-10 (12.5~90)	22	230	65	130	158	90	11	17.65	60	13	80	153	97.5	22	40	7	25	35	16	30	5	18	27
	12.5-90 (100~200)	28	254	90	140	180	120	11	24.22	66.5	16	92	174	116	28	45	7	31	40	16	30	5	18	27
750W 1HP	100-200	32	293	130	170	210	165	13	30.22	70	20	100	198	130	32	55	10	35	50	16	30	5	18	27
	3-25 (30~120)	28	267	90	140	180	120	11	24.22	66.5	16	92	174	116	28	45	7	31	40	19	40	6	21.5	35
1500W 2HP	30-120 (125~200)	32	303	130	170	210	165	13	30.22	70	20	100	198	130	32	55	10	35	50	19	40	6	21.5	35
	3-30	32	313	130	170	210	165	13	30.22	70	20	100	198	130	32	55	10	35	50	24	50	8	27	45

※ Ratio showed in parenthesis ( ) are used for light loading.

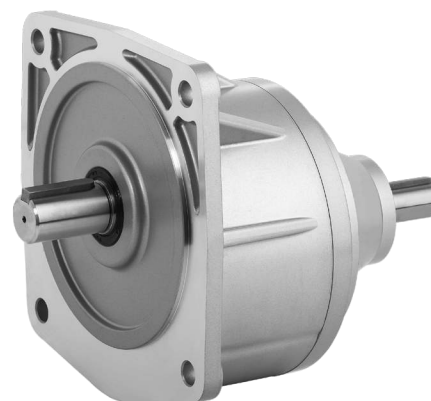


# SVD Vertical Double Shaft Reducer

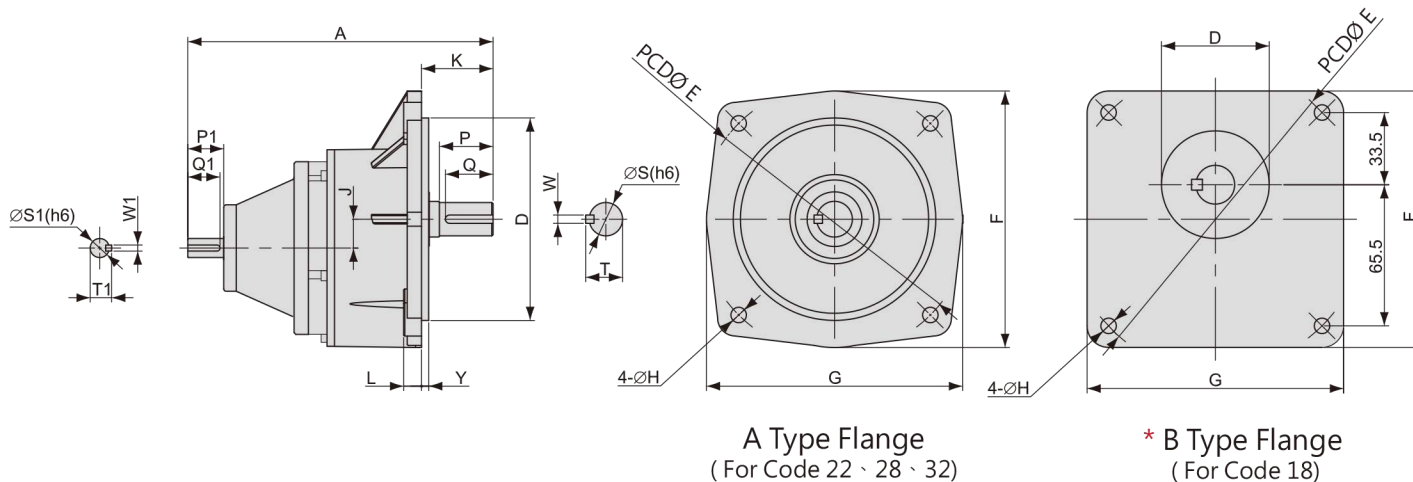
**Model of Double Shaft Type Reducer**

**SVD 18 - 100 - 20**

Model	Code	Output	Ratio
SVD : Vertical double shaft type gear reducer.	Ø18:18 Ø22:22 Ø28:28 Ø32:32	100:100W 200:200W 400:400W 750:750W 1500:1500W	3~200



SVD SERIES

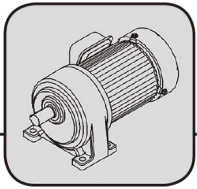


**Dimension (mm)**

Output W (HP)	Ratio	Code	A	D	E	F	G	H	J	K	L	Y	Output Shaft				Input Shaft					
													S	P	W	T	Q	S1	P1	W1	T1	Q1
100W 1/8HP	3-50 (60~200)	18*	164.5	50	140	119	119	9	16	40	12	-	18	30	5	20	25	14	25	5	16	22
	60-200	22	195.5	148	185	176	164	11	17.65	47	12	3	22	40	7	25	35	14	25	5	16	22
200W 1/4HP	3-10 (12.5~90)	18*	164.5	50	140	119	119	9	16	40	12	-	18	30	5	20	25	14	25	5	16	22
	12.5-90 (100~200)	22	195.5	148	185	176	164	11	17.65	47	12	3	22	40	7	25	35	14	25	5	16	22
400W 1/2HP	100-200	28	210	170	220	216	216	11	24.22	60	15	6	28	45	7	31	40	14	25	5	16	22
	3-10 (12.5~90)	22	230	148	185	176	164	11	17.65	47	12	3	22	40	7	25	35	16	30	5	18	27
	12.5-90 (100~200)	28	254	170	220	216	216	11	24.22	60	15	6	28	45	7	31	40	16	30	5	18	27
750W 1HP	100-200	32	293	185	255	241	225	13	30.22	65	15	4	32	55	10	35	50	16	30	5	18	27
	3-25 (30~120)	28	267	170	220	216	216	11	24.22	60	15	6	28	45	7	31	40	19	40	6	21.5	35
1500W 2HP	30-120 (125~200)	32	303	185	255	241	225	13	30.22	65	15	4	32	55	10	35	50	19	40	6	21.5	35
	3~30	32	313	185	255	241	225	13	30.22	65	15	4	32	55	10	35	50	24	50	8	27	45

※ Ratio showed in parenthesis ( ) are used for light loading.

\* Code 18 : Belongs to B type flange.

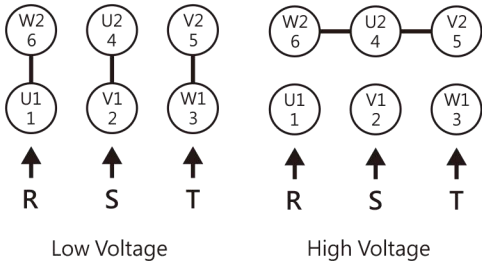


Aluminum Gear Motor

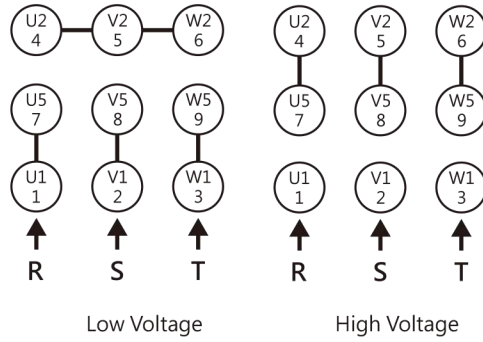
## Motor / Brake Wirng Diagram

WIRE DIAGRAM

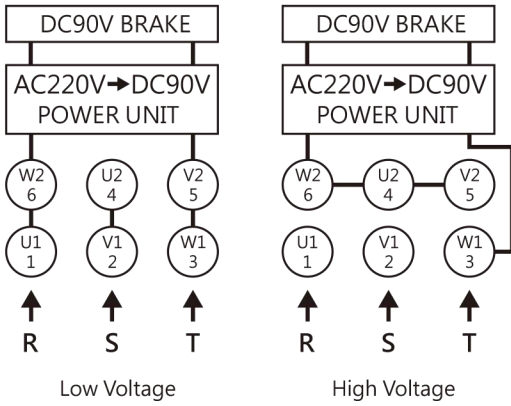
3 Phase with 6 wires



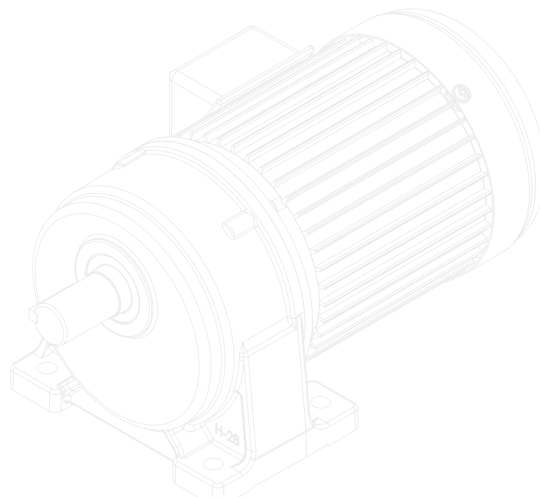
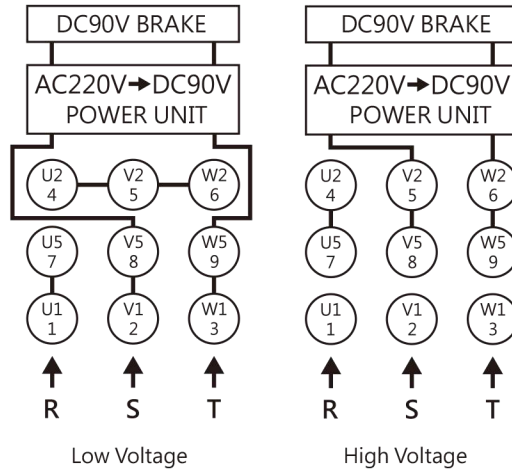
3 Phase with 9 wires

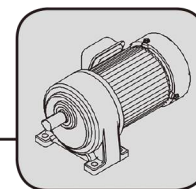


3 Phase with 6 wires with brake



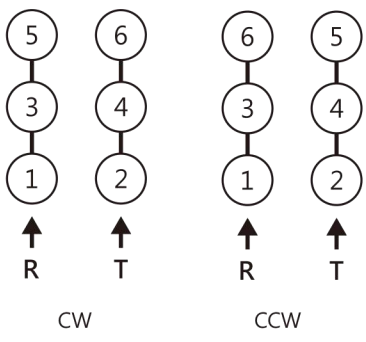
3 Phase with 9 wires with brake



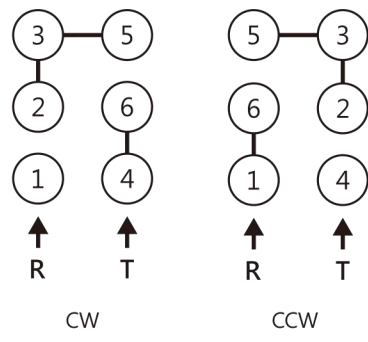


WIRE DIAGRAM

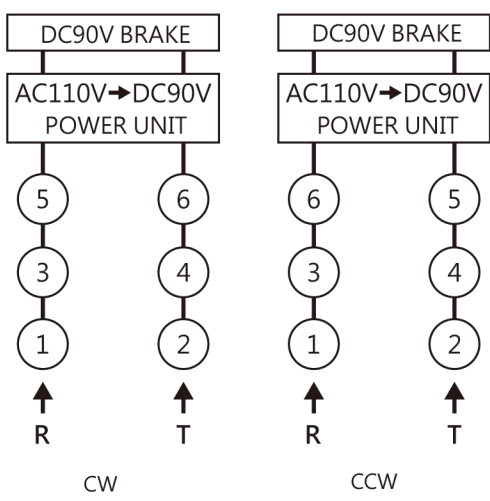
1 Phase 110V with 6 wires



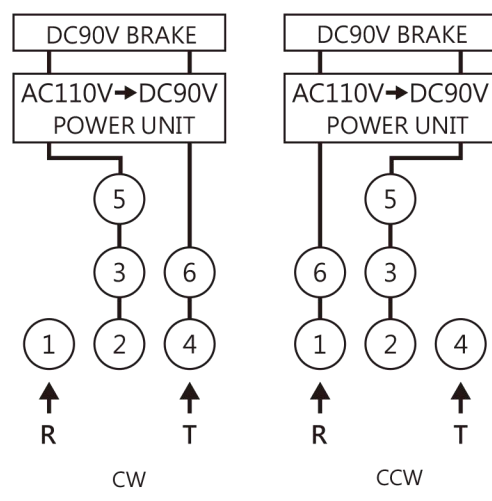
1 Phase 220V with 6 wires



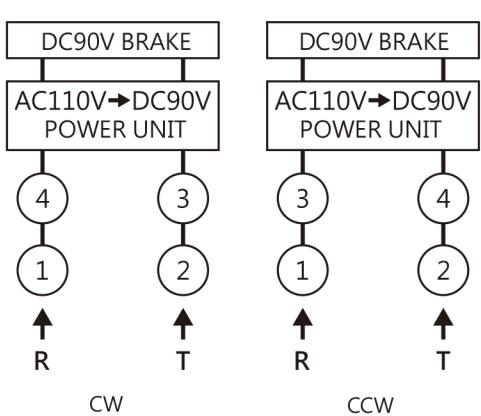
1 Phase 110V with 6 wires with brake



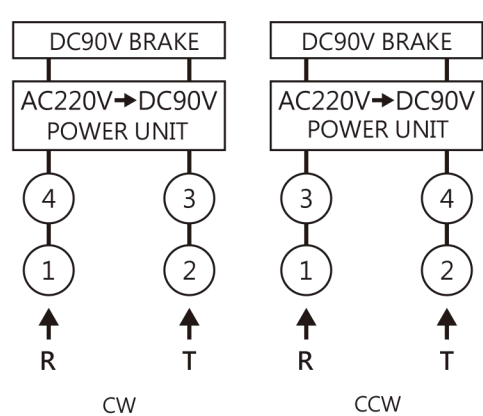
1 Phase 220V with 6 wires with brake

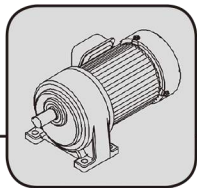


J Series-1 phase 110V with brake



J Series-1 Phase 220V with brake





## Aluminum Gear Motor

# Specifications

SPECIFICATION

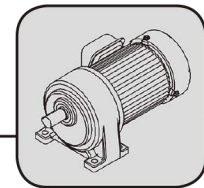
Specification of Motor and Brake

Phase	Output (W/HP)	Pole	Voltage	Hz	Rating			Class	Kgf·m	Release Time		Adjust Gap		With brake		
					RPM	Current (AMP)	Torque (Kg·m)			AC Switch	DC Switch	Specified Value	Boundary Value	Brake Voltage	Input Voltage	Operation Times
Three Phase 3Ø	100W(1/8 HP)	4P	220/380	60/50	1680/1380	0.8/0.46	0.057/0.07	F	0.1	0.1	0.06	0.3	0.7	DC90V	AC 200-240V	10times /min
	200W(1/4 HP)		220/380	60/50	1680/1380	1.2/0.7	0.116/0.142	F	0.2	0.07	0.03	0.3	0.7			
	400W(1/2 HP)		220/380	60/50	1680/1400	2.1/1.2	0.231/0.277	F	0.4	0.10	0.03	0.3	0.7			
	750W(1 HP)		220/380	60/50	1680/1400	3.6/2.1	0.43/0.52	F	0.8	0.12	0.05	0.4	1.0			
	1500W(2 HP)		220/380	60/50	1680/1420	6.1/3.5	0.87/1.03	F	1.6	0.14	0.05	0.4	1.0			
	2200W(3 HP)		220/380	60/50	1680/1420	9.5/5.5	1.26/1.50	F	2.5	0.15	0.03	0.4	1.0			
	3700W(5 HP)		220/380	60/50	1680/1420	15/8.7	2.14/2.54	F	5.0	0.17	0.05	0.5	1.2			
Single Phase 1Ø	100W(1/8 HP)	4P	110/220	60/50	1680/1380	2/1	0.057/0.07	F	0.1	0.1	0.06	0.3	0.7	DC90V	AC 100-110V 200-240V	10times /min
	200W(1/4 HP)		110/220	60/50	1680/1380	4/2	0.116/0.142	F	0.2	0.07	0.03	0.3	0.7			
	400W(1/2 HP)		110/220	60/50	1680/1400	8/4	0.232/0.278	F	0.4	0.10	0.03	0.3	0.7			
	750W(1 HP)		110/220	60/50	1680/1400	12/6	0.43/0.52	F	0.8	0.12	0.15	0.4	1.0			

Output Specification of Reducer

Ratio	Output RPM		100W (1/8 HP)			200W (1/4 HP)			400W (1/2 HP)			750W (1 HP)			1500W (2 HP)			2200W (3 HP)		
	50Hz	60Hz	Output shaft permissible torque			Output shaft permissible torque			Output shaft permissible torque			Output shaft permissible torque			Output shaft permissible torque			Output shaft permissible torque		
			50Hz	60Hz	O.H.L	50Hz	60Hz	O.H.L	50Hz	60Hz	O.H.L	50Hz	60Hz	O.H.L	50Hz	60Hz	O.H.L	50Hz	60Hz	O.H.L
3	500	600	0.2	0.17	30	0.38	0.31	30	0.71	0.6	54	1.29	1.11	62	2.60	2.21	135	3.8	3.19	155
5	300	360	0.32	0.27	60	0.61	0.5	60	1.15	1	90	2.25	1.85	130	4.81	3.5	180	6.55	5.48	220
10	150	180	0.62	0.51	90	1.2	1	90	2.5	2.1	120	4.6	3.9	180	8.8	7.1	250	13.2	10.7	320
12.5	120	144	0.77	0.66	100	1.54	1.24	100	3.1	2.5	130	5.7	4.9	190	11	8.9	290	16.5	13.3	340
15	100	120	0.93	0.77	100	1.85	1.5	100	3.7	2.9	140	6.9	5.8	220	13.2	10.7	290	19.8	16	360
20	75	90	1.2	1	120	2.47	1.99	120	4.94	4	150	9.3	7.7	240	17.6	14.2	330	26.5	21.4	410
25	60	72	1.5	1.3	130	3	2.49	130	6.17	4.9	170	11.6	9.6	250	22.1	17.8	390	33.1	26.7	480
30	50	60	1.8	1.4	140	3.6	2.98	180	7.4	5.87	260	13.85	11.55	410	26.4	21.3	520	39.65	32	710
40	37.5	45	2.4	2	150	4.94	3.99	190	9.88	7.98	290	17.9	14.9	430	35.3	28.5	600	53	42.8	740
50	30	36	3	2.5	160	6.17	4.98	200	12.3	9.97	320	22.4	18.7	470	44.2	35.7	720	66.3	53.3	880
60	25	30	3.6	3	220	7.4	5.98	220	14.8	11.9	350	26.9	22.4	560	53	42.8	720	79.5	64.2	1000
70	22	26	4.3	3.6	220	7.9	6.9	220	16.5	13.6	350	31.7	26.5	560	62.6	52.1	720	92.6	77.3	1000
75	20	24	4.6	3.7	220	9.2	7.5	220	18.5	14.9	350	35.1	28.3	560	66.3	53.5	720	99.4	80.3	1000
80	18.7	22.5	4.9	4.1	220	9.4	7.9	220	18.4	15.5	350	35.4	29.8	560	70.9	59.5	720	105.1	87.7	1000
90	16.6	20	5.4	4.4	250	11	8.9	250	22.1	17.8	350	42	33.95	600	79.4	64.1	720			
100	15	18	6	5	250	12.3	9.9	250	24.7	19.9	350	46.8	37.8	600	88.4	71.4	720			
120	12.5	15	7.2	6	250	14.8	11.9	340	29.6	23.9	600	58.4	47.3	720	106	85.6	1000			
150	10	12	9.1	7.4	250	18.4	14.8	350	36.9	29.8	600	70.1	56.6	720	132.5	107	1000			
180	8.3	10	11	9	250	22.2	17.9	350	44.4	35.9	600	84.2	68	720	132.6	107.1	1000			
200	7.5	9	11.9	10	250	24.7	19.9	350	49.4	39.9	600	93.6	75.6	720						

※ Above data is for reference only. Any changes will not be noticed.



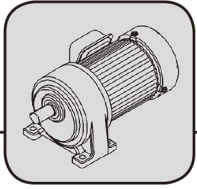
## Normal Ratio & Actual Ratios

		Standard Gearmotor																							
10 Ø18	1/8 HP	Norml	3	5	7.5	10	12.5	15	18	20	21.4	25	30	36	40	50	60	75	80	90	100	120	150	180	200
	Actual	3.33	5	7.5	10.79	12.65	15	17.69	20	21.36	25	29.49	36.67	40.53	50.42	60.24	73.33	--	91.67	107.56	122.22	150	165	198	
	1/4 HP	Norml	3	5	7.5	10	12.5	15	18	20	21.4	25	30	36	40	50	60	75	80	90	--	--	--	--	
	Actual	3.33	5	7.5	10.79	12.65	15	17.69	20	21.36	25	29.49	36.67	40.53	50.42	60.24	73.33	--	91.67	--	--	--	--		
11 Ø22	1/8 HP	Norml	60	70	80	90	100	120	140	150	160	180	200	240	--	--	--	--	--	--	--	--	--	--	
	Actual	63.12	68.93	75.63	92.7	103.11	120.74	131.31	143.4	157.34	192.84	215.91	239.9	--	--	--	--	--	--	--	--	--	--		
	1/4 HP	Norml	12.5	15	18	20	25	30	40	50	60	70	80	90	100	120	140	150	160	180	200	--	--	--	
	Actual	12.6	15.65	18.33	19.93	23.88	29.27	39.88	49.57	63.12	68.93	75.63	92.7	103.79	120.74	131.31	143.4	157.34	192.84	215.91	--	--	--		
	1/2 HP	Norml	3	5	7.5	10	12.5	15	18	20	25	30	35	40	50	60	75	90	--	--	--	--	--	--	
	Actual	3.01	5.14	7.38	10.86	12.86	15.43	--	21.04	26.86	31.71	--	40.71	48.86	66.62	74.91	85.05	--	--	--	--	--	--		
	1 HP	Norml	3	5	7.5	10	12.5	15	20	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Actual	3.09	5.14	7.38	10.86	12.86	15.43	21.04	26.86	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
12 Ø28	1/4 HP	Norml	100	120	140	160	165	180	200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Actual	97.78	117.33	143.4	160	163.56	179.91	204.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	1/2 HP	Norml	12.5	15	18	20	25	30	40	50	60	70	80	90	100	120	140	160	165	180	200	--	--	--	
	Actual	12.17	15.63	18.75	22.92	25.57	32.64	38.39	49.28	59.13	72.28	80.64	90.67	97.78	117.33	143.4	160	163.56	179.91	204.25	--	--	--		
	1 HP	Norml	3	5	7.5	10	12.5	15	18	20	25	30	40	50	60	75	90	100	120	--	--	--	--		
	Actual	3	5	7.73	9.74	12.5	15	18.33	20.45	26.11	30	39.42	47.31	57.82	73.33	85.05	100	127.65	--	--	--	--			
	2 HP	Norml	3	5	7.5	10	12.5	15	18	20	25	30	--	--	--	--	--	--	--	--	--	--	--		
	Actual	3	5	7.73	9.74	12.5	15	18.33	20.45	26.11	30	--	--	--	--	--	--	--	--	--	--	--			
13 Ø32	1/2 HP	Norml	100	120	140	150	180	200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	Actual	109.8	129.63	137.41	155.56	171.76	194.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
	1 HP	Norml	30	40	50	60	70	80	90	100	120	125	150	180	200	--	--	--	--	--	--	--	--		
Actual	28	41	51.25	58.11	67.76	80	96	106	120	129.63	155.56	171.76	194.44	--	--	--	--	--	--	--	--				
	2 HP	Norml	3	5	7.5	10	12.5	15	18	20	25	30	40	50	60	70	80	90	100	--	--	--	--		
	Actual	3.2	5.02	7.86	10.41	12.14	14.33	17.2	18.99	25.08	28.16	41.64	48.56	57.33	68.8	75.97	86	107.5	--	--	--	--			
14 Ø40	1 HP	Norml	125	140	150	180	200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	Actual	117.2	135	150	181	201	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
	2 HP	Norml	50	60	70	80	90	100	120	150	170	--	--	--	--	--	--	--	--	--	--	--	--		
	Actual	50	57.5	67	78.1	87.9	97.7	125	150.9	167.6	--	--	--	--	--	--	--	--	--	--	--	--			
	3 HP	Norml	3	5	10	15	20	25	30	40	50	60	70	80	90	100	--	--	--	--	--	--	--		
	Actual	3.3	5.4	9.6	14.4	19.5	25	28.8	39.1	50	57.5	67.1	78.1	87.9	97.7	--	--	--	--	--	--	--			
	5 HP	Norml	3	5	10	15	20	25	30	40	50	60	--	--	--	--	--	--	--	--	--	--	--		
	Actual	3.3	5.4	9.6	14.4	19.5	25	28.8	39.1	50	57.5	--	--	--	--	--	--	--	--	--	--	--			

RATIOS

		High Ratio Gearmotor																	
11 Ø22	1/8 HP	Norml	250	300	350	450	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1800
	Actual	289.8	339.7	402.9	475.2	537.1	610.7	720.3	814.3	864.4	977.1	1043.8	1178.7	1325.4	1423.3	1498.3	1600.4	1872.9	
12 Ø28	1/8 HP	Norml	250	300	350	450	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1800
	Actual	281.7	330.2	391.7	462	522.2	591.4	697.5	788.5	864.2	1023	1100	1182.7	1297.4	1344.4	1466.7	1566.7	1833.3	
	1/4 HP	Norml	250	300	350	450	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1800
	Actual	281.7	330.2	391.7	462	522.2	591.4	697.5	788.5	864.2	1023	1100	1182.7	1297.4	1344.4	1466.7	1566.7	1833.3	
13 Ø32	1/4 HP	Norml	250	300	350	450	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1800
	Actual	239.2	315.9	370.1	460	500	651.8	760.2	830.1	897.4	994.6	1050.8	1142.8	1261	1369.4	1514.3	1643.3	1814.4	
	1/2 HP	Norml	250	300	350	450	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1800
	Actual	272.3	322.5	387	453.3	527.7	749.3	813.8	876.1	884.6	1021.8	1118.4	1206.2	1304.3	1447.5	1539.8	1598.3	1847.8	





Aluminum Gear Motor

## NOTE

A series of horizontal dotted lines provided for taking notes.



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