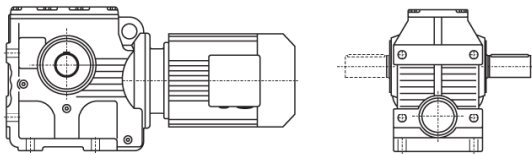
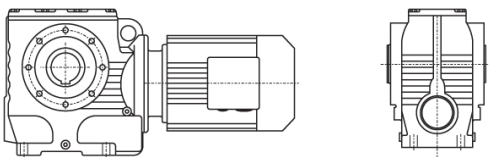




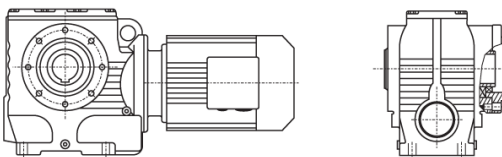
S series gear units are available in the following designs:



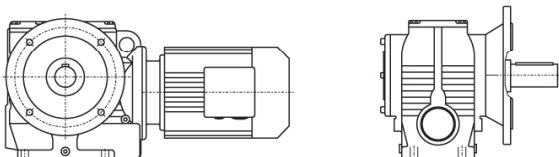
S...Y...
Foot-mounted solid shaft helical-worm gear units



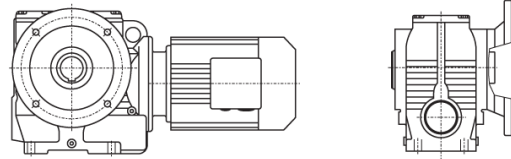
SA...Y...
Hollow shaft helical-worm gear units



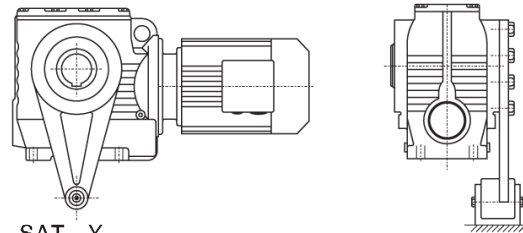
SAZ...Y...
Short-flange-mounted hollow shaft helical-worm gear units



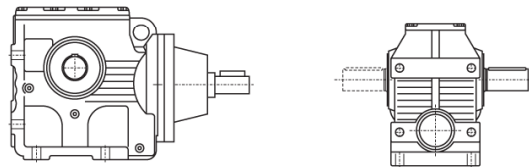
SF...Y...
Flange-mounted solid shaft helical-worm gear units



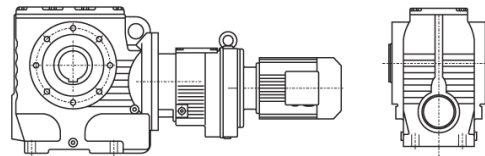
SAF...Y...
Flange-mounted hollow shaft helical-worm gear units



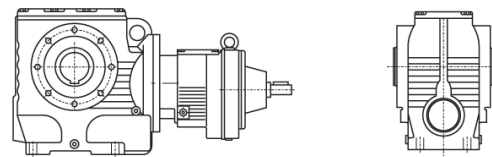
SAT...Y...
Torque-arm-mounted hollow shaft helical-worm gear units



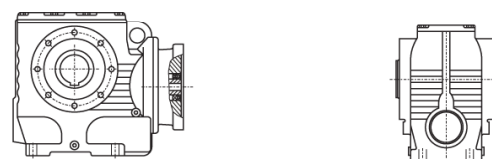
S(SF, SA, SAF, SAZ) S...
Helical-worm gear units with solid shaft input



SA(S, SF, SAF, SAZ) ...R...Y...
Combi-type helical-worm gear units



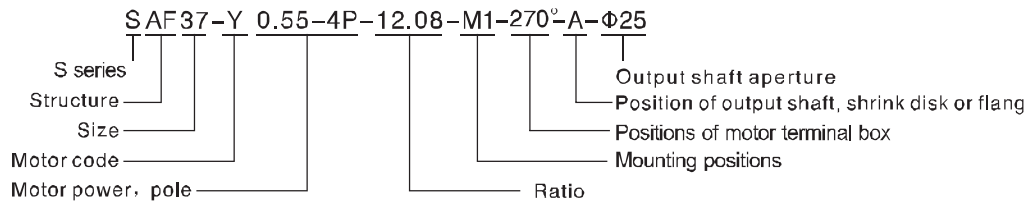
SA(S, SF, SAF, SAZ) S...R...
Combi-type helical-worm gear units with solid shaft input



SA(S, SF, SAF, SAZ) ...Y...
Customers provide the motor by themselves need connected flange.



Type Designations:



R series:
Helical-worm gear units

Structure:	
Foot-mounted solid shaft	(-)
Hollow shaft	A
Flange-mounted solid shaft	F
Flange-mounted hollow shaft	AF
Short-flange-mounted hollow shaft	AZ
Torque-arm-mounted hollow shaft	AT
Foot-mounted solid shaft with solid shaft input	S
Hollow shaft with solid shaft input	AS
Flange-mounted solid shaft with solid shaft input	FS
Flange-mounted hollow shaft with solid shaft input	AFS
*Hollow shaft with shrink disk	H..(H, HF, HZ, HT)

Size:
(see selection table)

Motor code:	
Common motor	Y(Y2)
Flameproof motor	B
Direct current motor	Z
Brake motor	YEJ
Multi-speed motor	D
Variable frequency motor	YVP
Electromagnetic variable speed motor	YCT
Metallurgy hoisting motor	R
Transduction braking motor	YVPJ
Roller way	G

Motor power, pole :
See selection table

Ratio:
See selection table

Mounting positions:
M1, M2, M3, M4, M5, M6(See page 03)

Positions of motor terminal box:
0°, 90°, 180°, 270°(See page 03)

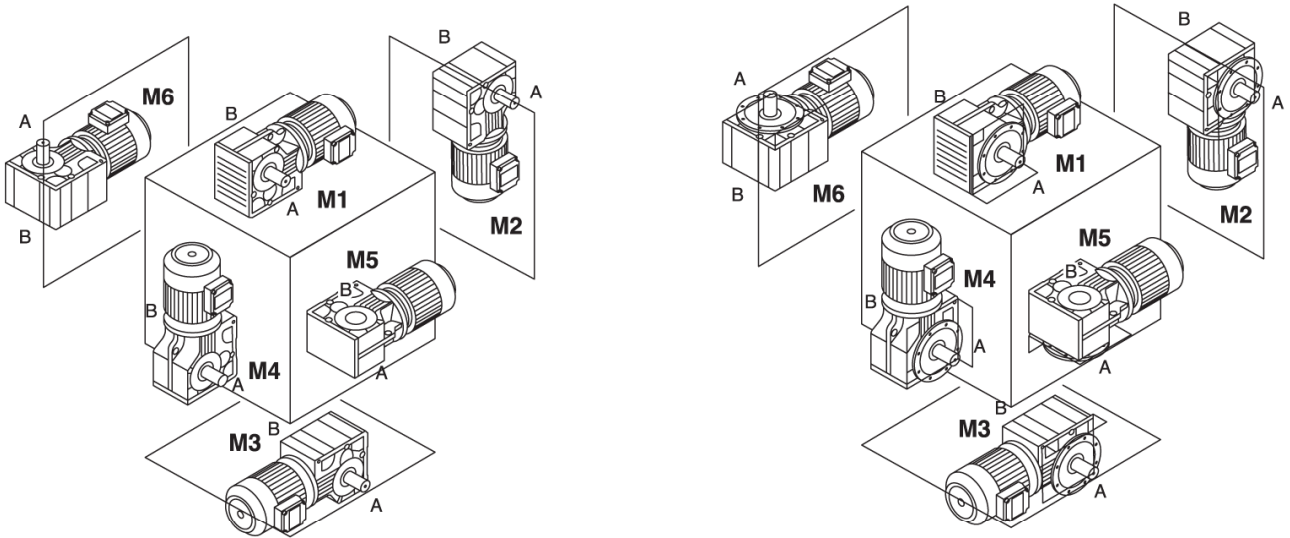
Output shaft \ flange \ shrink disc directions:
Viewing from motor end: left side = A,
right side = B, both side = AB(See mounting positions)

Output shaft aperture:
See the chart of mounting dimension (It will be omitted when applying with solid output shaft)

*Dimensions of hollow shaft with shrink disc, see page 22-23.

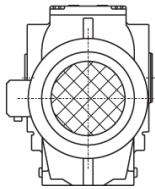


Mounting positions

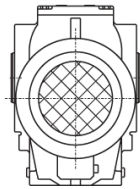


S

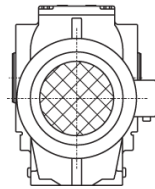
Positions of motor terminal box



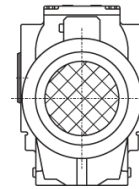
0°



90°



180°



270°

Input power rating and permissible torque

Size	37	47	57	67	77	87	97
Structure	S SA SF SAF SAT SAZ						
Input power rating (kW)	0.18~0.75	0.18~1.5	0.18~3	0.25~5.5	0.55~7.5	0.75~15	1.5~22
Ratio	10.27~165.71	11.46~244.74	10.78~196.21	11.55~227.20	9.96~241.09	11.83~223.26	12.75~230.48
Permissible torque (n.m)	90	170	300	520	1270	2280	4000



Gear unit weight

Size	37	47	57	67	77	87	97
Weight (kgs)	7	10	14	26	50	100	170

The marked weight is average value, it has no constraint force.

Oil

S...:

Size	Oil level (L)					
	M1	M2	M3 1)	M4	M5	M6
S37	0.25	0.4	0.5	0.6	0.4	0.4
S47	0.35	0.8	0.7	1.1	0.8	0.8
S57	0.5	1.2	1	1.5	1.3	1.3
S67	1	2.0	2.2/3.1	3.2	2.6	2.6
S77	1.9	4.2	3.7/5.4	6	4.4	4.4
S87	3.3	8.1	6.9/10.4	12	8.4	8.4
S97	6.8	15	13.4/18	22.5	17	17

SF...:

Size	Oil level (L)					
	M1	M2	M3 1)	M4	M5	M6
SF37	0.25	0.4	0.5	0.6	0.4	0.4
SF47	0.4	0.9	0.9	1.2	1.0	1.0
SF57	0.5	1.2	1	1.6	1.4	1.4
SF67	1	2.2	2.3/3	3.2	2.7	2.7
SF77	1.9	4.1	3.9/5.8	6.5	4.9	4.9
SF87	3.8	8	7.1/10.1	12	9.1	9.1
SF97	7.4	15	13.8/18.8	23.6	18	18

SA..., SAF..., SAZ...:

Size	Oil level (L)					
	M1	M2	M3 1)	M4	M5	M6
S..37	0.25	0.4	0.5	0.6	0.4	0.4
S..47	0.4	0.8	0.7	1.1	0.8	0.8
S..57	0.5	1.1	1	1.6	1.2	1.2
S..67	1	2.0	1.8/2.6	2.9	2.5	2.5
S..77	1.8	3.9	3.6/5	5.9	4.5	4.5
S..87	3.8	7.4	6/8.7	11.2	8	8
S..97	7	14	11.4/16	21	15.7	15.7

Note: Combi-type gear units must be filled with the larger oil volume.