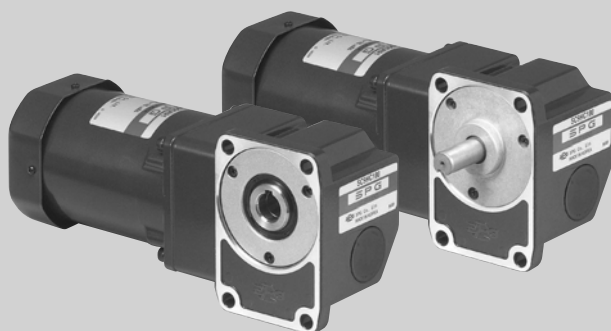


RIGHT ANGLE GEAR HEAD

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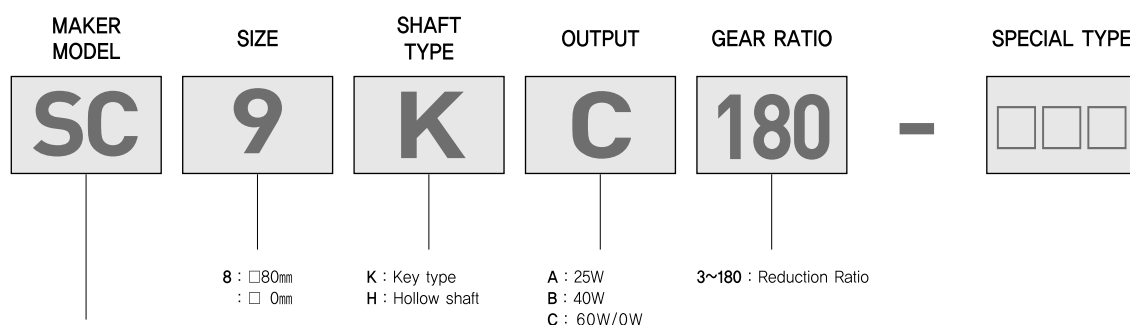
RIGHT ANGLE GEAR HEAD

□ 80 □ 0 , 2 40 0 0

Characteristics of RIGHT ANGLE GEAR HEAD

- Can be installed to a motor at a right angle using worm gears and special helical gears.
- Space saving of maximum 50% compared to existing square boxes.
- Can be assembled and applied with SPG standard motors.
- Ratio can be selected in between 1/3 and 1/180, and is shown in the cover of the gear head.

RIGHT ANGLE GEAR HEAD CODING SYSTEM



SC : SPG Crossi Gear Head

SPECIFICATION OF RIGHT ANGLE GEAR HEAD

T P E	R A T I O	MAXIMUM PERMISSIBLE TORUE		PERMISSIBLE OVERHUNG LOAD				PERMISSIBLE THRUST LOAD	
		kgf	N m	DISTANCE FROM FRONT EDGE OF SHAFT 10mm		DISTANCE FROM FRONT EDGE OF SHAFT 20mm			
				kgf	N	kgf	N	kgf	N
SC8HA□	3～180	80	8	25	250	22	220	10	100
SC9HB□	3～180	100	10	35	350	31	310	20	200
SC9HC□	3～180	200	20	56	560	50	500	250	250
S C 8 A□	3～18	80	8	10	100	15	150	10	100
	25～180			20	200	30	300		
S C 9 B□	3～18	100	10	25	250	35	350	20	200
	25～180			30	300	45	450		
S C 9 C□	3～9	200	20	40	400	50	500	25	250
	12.5～25			45	450	60	600		
	30～180			50	500	70	700		

- ❖ is the distance from the flange mounting surface.
- ❖ The code in of gearhead model is gear ratio.
- ❖ Self Locking isn't working.

TRANSFER EFFICIENCY

Model	Gear Ratio	3	3.6	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180
SC KA□ SC HA□		50%						60%													
SC KB□ SC HB□		68%									60%										
SC KC□ SC HC□		68%										60%						50%			

❖ The efficiency referenced may vary when applied.

PERMISSIBLE TORQUE

50Hz

GEAR RATIO		3	3.6	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180
MODEL	rpm	600	500	360	300	240	200	144	120	100	72	60	50	36	30	24	20	18	15	12	10
SC KA  SC HA  (2 W)	kg-cm	3.2	3.8	5.3	6.3	7.9	9.5	15.8	18.9	22.7	31.5	37.8	45.4	63	75.6	80	80	80	80	80	80
	N-m	0.32	0.38	0.53	0.63	0.79	0.95	1.58	1.89	2.27	3.15	3.78	4.58	6.30	7.56	8	8	8	8	8	8
SC KB  SC HB  (40W)	kg-cm	6.4	7.7	10.7	12.9	16.1	19.3	26.8	32.1	38.6	47.3	56.7	68	94.5	100	100	100	100	100	100	100
	N-m	0.64	0.77	1.07	1.29	1.61	1.93	2.68	3.21	3.86	4.73	5.67	6.8	9.45	10	10	10	10	10	10	10
SC KC  SC HC  (0 W)	kg-cm	9.4	11.3	15.6	18.8	23.5	28.2	39.1	46.9	56.3	78.2	82.8	99.4	138	165.6	200	200	200	200	200	200
	N-m	0.94	1.13	1.56	1.88	2.35	2.82	3.91	4.69	5.63	7.82	8.28	9.94	13.8	16.56	20	20	20	20	20	20
SC KC  SC HC  (0 W)	kg-cm	14.1	16.9	23.5	28.2	35.2	42.2	58.7	70.4	84.5	117.3	124.2	149	200	200	200	200	200	200	200	200
	N-m	1.41	1.69	2.35	2.82	3.52	4.22	5.87	7.04	8.45	11.73	12.42	14.9	20	20	20	20	20	20	20	20

60Hz

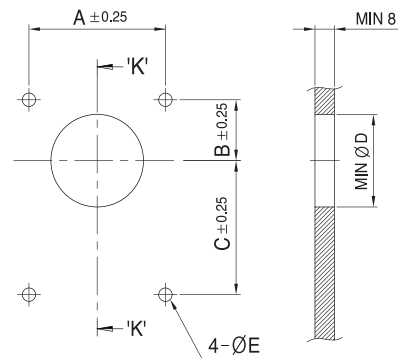
GEAR RATIO		3	3.6	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180
MODEL	rpm	600	500	360	300	240	200	144	120	100	72	60	50	36	30	24	20	18	15	12	10
SC KA  SC HA  (2 W)	kg-cm	25	3	4.1	5	6.2	7.4	12.4	14.9	17.8	24.8	29.7	35.6	49.5	59.4	74.3	80	80	80	80	80
	N-m	0.25	0.3	0.41	0.5	0.62	0.74	1.24	1.49	1.78	2.48	2.97	3.56	4.95	5.94	7.43	8	8	8	8	8
SC KB  SC HB  (40W)	kg-cm	5.1	6.1	8.5	10.2	12.8	15.3	21.3	25.5	30.6	37.5	45	54	75	90	100	100	100	100	100	100
	N-m	0.51	0.61	0.85	1.02	1.28	1.53	2.13	2.55	3.06	3.75	4.5	5.4	7.5	9	10	10	10	10	10	10
SC KC  SC HC  (0W)	kg-cm	8	9.5	13.3	15.9	19.9	23.9	33.2	39.8	47.7	66.3	70.2	84.2	117	140.4	175.5	200	200	200	200	200
	N-m	0.8	0.95	1.33	1.59	1.99	2.39	3.32	3.98	4.77	6.63	7.02	8.42	11.7	14.04	17.5	20	20	20	20	20
SC KC  SC HC  (0W)	kg-cm	11.4	13.7	19	22.8	28.6	34.3	47.6	57.1	68.5	95.2	100.8	121	168	200	200	200	200	200	200	200
	N-m	1.14	1.37	19	2.28	2.86	3.43	4.76	5.71	6.85	9.52	10.08	12.1	16.8	20	20	20	20	20	20	20

- ❖ Basically, all output shaft rotates in an opposite way to that of a motor.
❖ Rpm is based on synchronous speed (50Hz: 1500rpm, 60Hz: 1800rpm) divided by gear ratio.
❖ The actual rotation speed can be 2~20% less than displayed value depending on the load.

Dimensions of the gearhead output shaft

TYPE	MODEL	A	B	C	D	E
Hollow shaft	SC8HA□	56	25	55	Ø16	Ø5.5
	SC8HB□	58	33	5	Ø16	Ø6.5
	SC8HC□	60	33	6	Ø18	Ø8.5
Solid shaft	SC8KA□	56	25	55	Ø35	Ø5.5
	SC8KB□	58	33	5	Ø35	Ø6.5
	SC8KC□	60	33	6	Ø35	Ø8.5

❖ The code in of gearhead model is gear ratio.



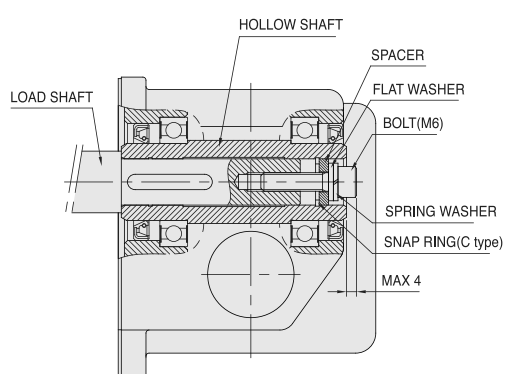
SECTION K K

Moti oad shaft to hoo shaft riht ae earhead

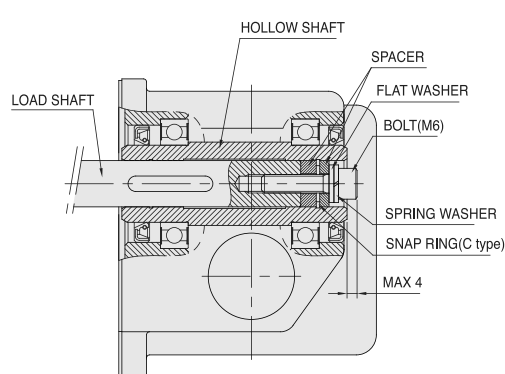
Eae of oti the oad) For steed oad shaft, isert the oad shaft a the a ito the hoo shaft. For straiht oad shaft, isert the oad shaft a the a to the sa ri. If the oad shaft is ot o eoh, se sacer to eiiate a sace etee the oad shaft ad the sa ri. Refer to the eo tae for the diesioa reatioshi etee the oad shaft ad the hoo shaft. Note that if the etrsio of the ot is ore tha 4, the safet coer accessor) caot e istaed.

MODEL	ler diaeter ad toerace of hoo shaft	Shaft diaeter ad toerace recoeded of oad shaft
SC8HA□	$\varnothing 15H8 \begin{smallmatrix} 0.02 \\ 0 \end{smallmatrix}$	$\varnothing 15h \begin{smallmatrix} 0 \\ -0.018 \end{smallmatrix}$
SC HB□	$\varnothing 15H8 \begin{smallmatrix} 0.02 \\ 0 \end{smallmatrix}$	$\varnothing 15h \begin{smallmatrix} 0 \\ -0.018 \end{smallmatrix}$
SC HC□	$\varnothing 1H8 \begin{smallmatrix} 0.02 \\ 0 \end{smallmatrix}$	$\varnothing 1h \begin{smallmatrix} 0 \\ -0.018 \end{smallmatrix}$

❖ The code in of gearhead model is gear ratio.



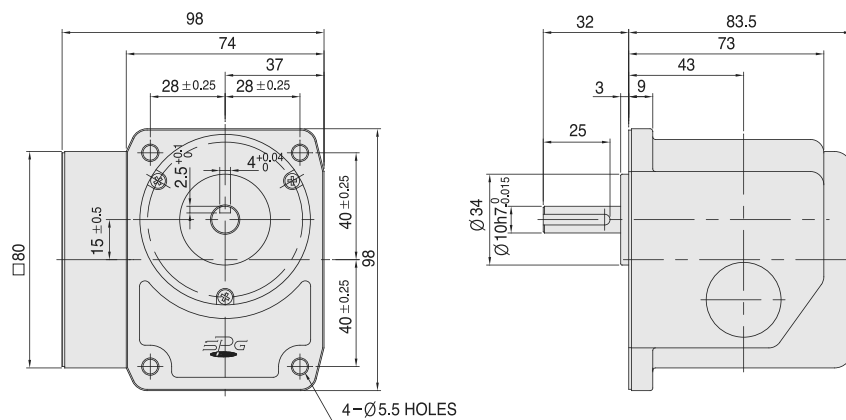
(Stepped load shaft)



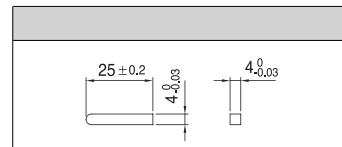
(Straight load shaft)

DIMENSIONS : SOLID SHAFT

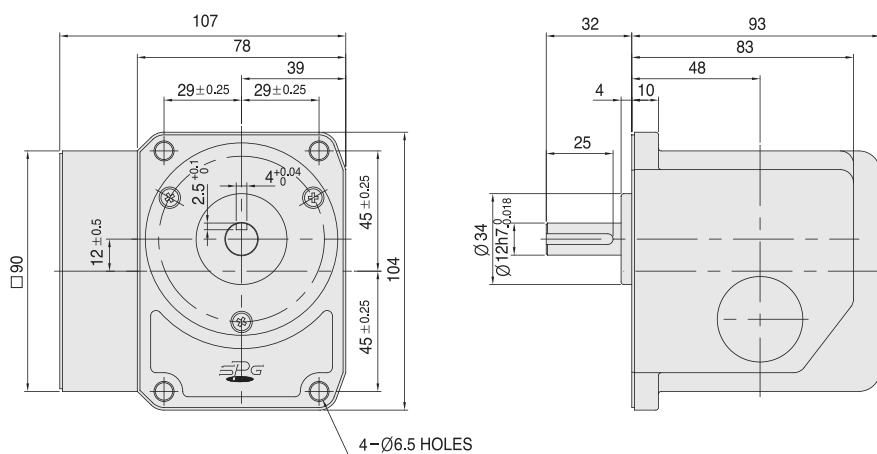
SC8KA □ eih t : 1.)



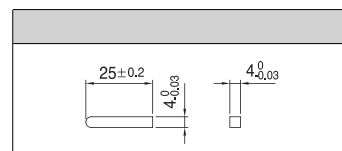
+ KEY SPEC



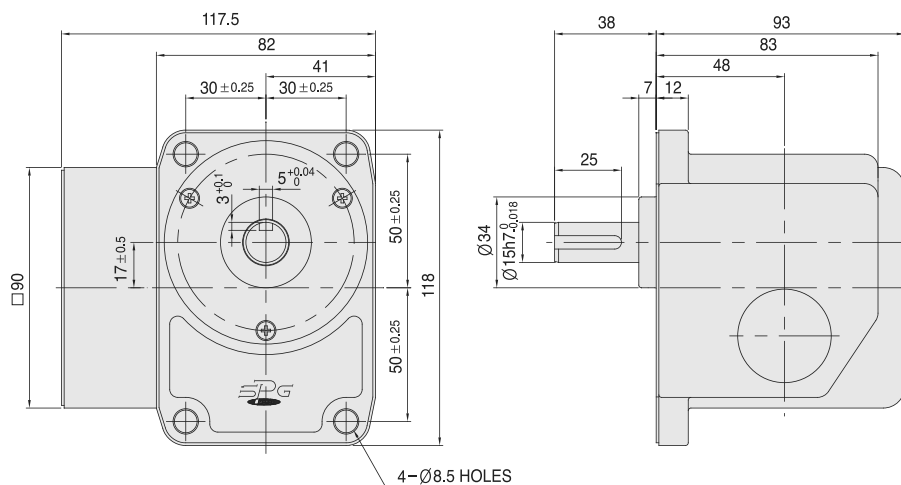
SCKB □ eih t : 2.0)



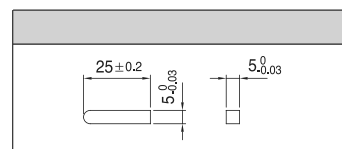
+ KEY SPEC



SCKC □ eih t : 2.)

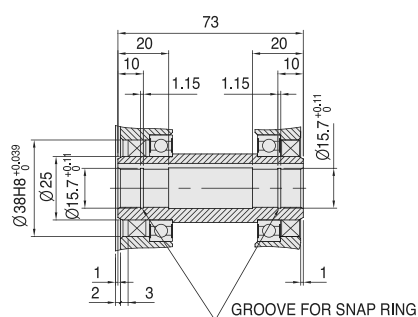
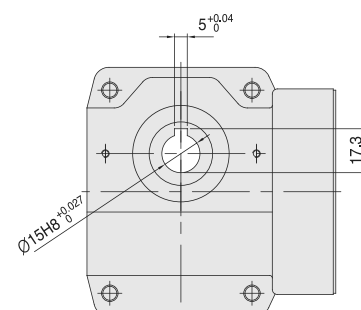
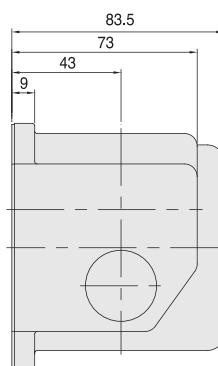
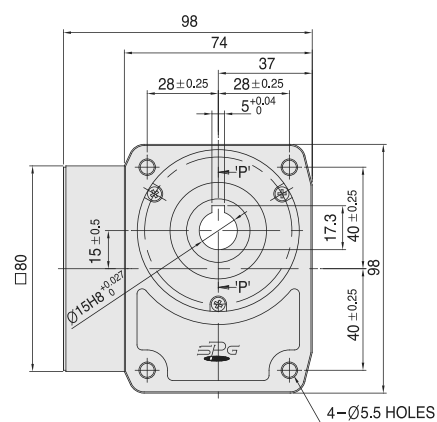


+ KEY SPEC



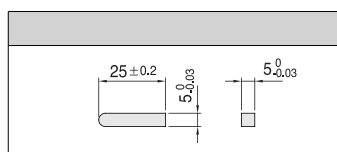
DIMENSIONS : HOLLOW SHAFT

SC8HA □ eih t : 1.)

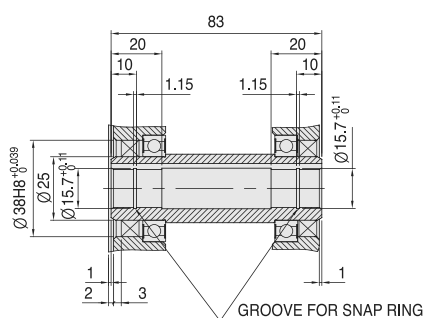
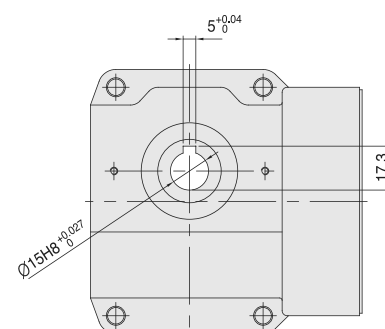
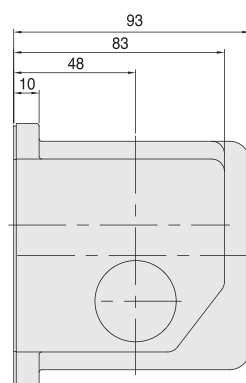
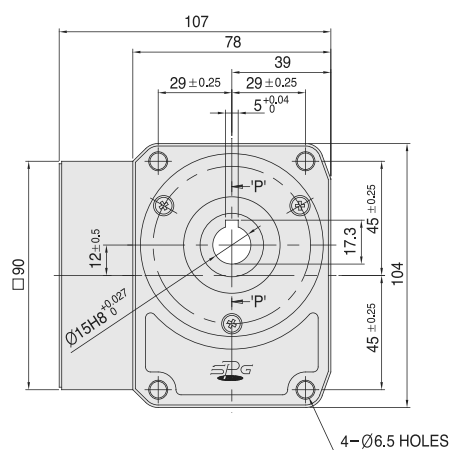


SECTION P P DETAIL OF OUTPUT SHAFT)

+ KEY SPEC

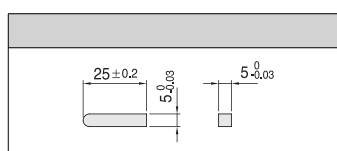


SCHB □ eih t : 2.0)



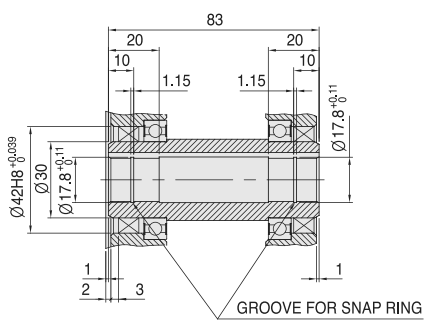
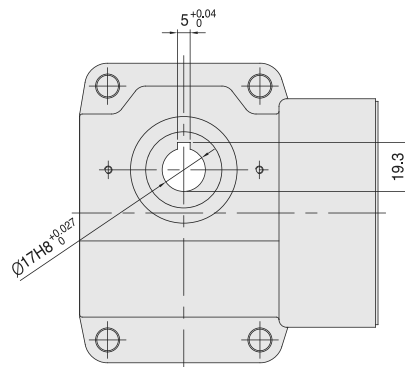
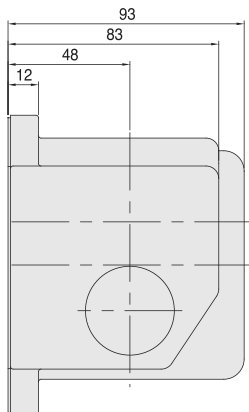
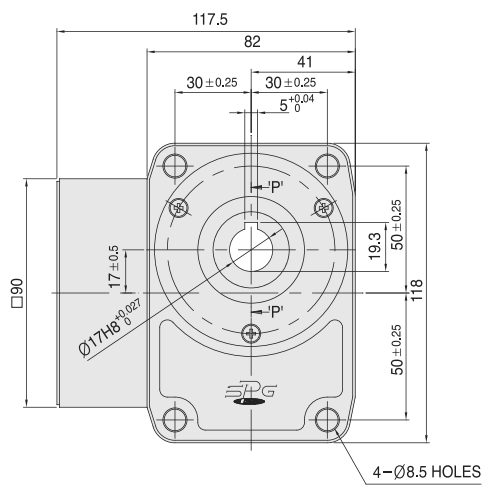
SECTION P P DETAIL OF OUTPUT SHAFT)

+ KEY SPEC



DIMENSIONS : HOLLOW SHAFT

SCHC□ eiht : 2.)



SECTION P P DETAIL OF OUTPUT SHAFT)

➤ KEY SPEC

