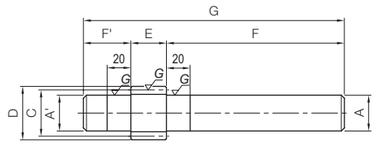
SSCPGS Circular pitch 5, 10
CP Ground Spur Pinion Shafts

Specifications	
Precision grade	JIS grade N7 (JIS B1702-1: 1998)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	Thermal refined, gear teeth induction hardened *
Tooth hardness	50 to 60HRC
Surface treatment	Black oxide coated except for ground part

* Due to the gear teeth being induction hardened, no secondary operations can be performed on tooth areas including the bottom land (approx. 2 to 3 mm).



S7

Catalog Number	Pitch mm (Module)	No. of teeth	Profile shift coefficient	Shape	Shaft diameter (L) A'	Shaft length (L) F'	Pitch dia. C	Outside dia. D	Face width E	Shaft diameter (R) A	Shaft length (R) F
SSCPGS5-15	**CP5** (1.5915)	15	0	S7	19.2	25	23.87	27.06	15	19.2	100
SSCPGS5-20		20	0		27.2		31.83	35.01		27.2	
SSCPGS10-10	**CP10** (3.1831)	10	+0.5		25.2	40	31.83	41.38	30	25.2	150
SSCPGS10-15		15	0		35.2		47.75	54.11		35.2	
SSCPGS10-20		20	0		40.2		63.66	70.03		40.2	

[Caution on Product Characteristics] ① For the center distance of the profile shifted gear, please refer to “Center distance of stock spur gear meshing with profile shifted gear” on page 60.

Recommended mating rack

SRGCP

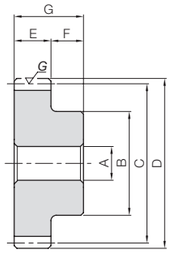
Please see Page 288 for more details.

Total Length G	Distance traveled in one turn (mm)	Allowable torque (N·m) Bending strength	Allowable torque (N·m) Surface durability	Allowable torque (kgf·m) Bending strength	Allowable torque (kgf·m) Surface durability	Backlash (mm)	Weight (kg)	Catalog Number
140	75	21.2	8.49	2.16	0.87	0.04~0.19	0.34	**SSCPGS5-15**
	100	32.0	16.6	3.26	1.70		0.66	**SSCPGS5-20**
220	100	121	25.9	12.4	2.64	0.05~0.21	0.97	**SSCPGS10-10**
	150	169	67.9	17.3	6.93		1.87	**SSCPGS10-15**
	200	256	133	26.1	13.6		2.64	**SSCPGS10-20**

SSCPG 5, 10, 15, 20
CP Ground Spur Gears

Specifications	
Precision grade	JIS grade N7 (JIS B 1702-1: 1998)*
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	Gear teeth induction hardened **
Tooth hardness	50 to 60HRC
Surface treatment	Black oxide coated except for teeth

* The precision grade of J Series products is equivalent to the value shown in the table.
** Due to the gear teeth being induction hardened, no secondary operations can be performed on tooth areas including the bottom land (approx. 2 to 3 mm).



S1

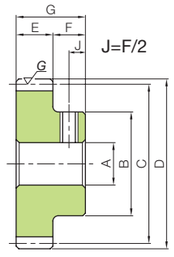
Catalog Number	Pitch mm (Module)	No. of teeth	Shape	Bore A_{H7}	Hub dia. B	Pitch dia. C	Outside dia. D	Face width E	Hub width F	Total length G	Distance traveled in one turn (mm)	Allowable torque (N·m) Bending strength	Allowable torque (N·m) Surface durability	Allowable torque (kgf·m) Bending strength	Allowable torque (kgf·m) Surface durability	Backlash (mm)	Weight (kg)
SSCPG5-20		20	S1	8	25	31.83	35.01	15	15	30	100	24.8	13.7	2.53	1.40	0.04~0.19	0.14
SSCPG5-25	**CP5**	25		10	32	39.79	42.97				125	33.5	23.0	3.41	2.34		0.22
SSCPG5-30	(1.5915)	30		10	38	47.75	50.93				150	42.3	35.0	4.32	3.57		0.33
SSCPG5-40		40		12	50	63.66	66.85				200	60.4	66.9	6.16	6.82		0.58
SSCPG10-20		20		15	50	63.66	70.03	30	20	50	200	198	110	20.2	11.2	0.05~0.21	0.99
SSCPG10-25	**CP10**	25		20	60	79.58	85.94				250	268	184	27.3	18.7		1.49
SSCPG10-30	(3.1831)	30		20	75	95.49	101.86				300	339	280	34.5	28.5		2.26
SSCPG10-40		40		25	80	127.32	133.69				400	483	535	49.3	54.6		3.59
SSCPG15-25	**CP15**	25		25	100	119.37	128.92	50	27	77	375	1005	667	102	68.0	0.05~0.22	5.76
SSCPG15-30	(4.7746)	30		25	110	143.24	152.79				450	1270	1020	130	104		8.04
SSCPG20-25	**CP20**	25		30	130	159.15	171.89	60	30	90	500	2140	1470	219	150	0.05~0.22	12.0
SSCPG20-30	(6.3662)	30		30	150	190.99	203.72				600	2710	2240	276	228		17.2

Recommended mating rack

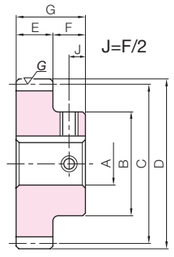
SRGCP

Please see Page 288 for more details.

J Series



S1T



S1K

To order J Series products, please specify: Catalog No. + J + BORE.

Bore H7	* The product shapes of J Series items are identified by background color.																									
Keyway Js9	8	10	12	14	15	16	17	18	19	20	22	25	28	30	32	35	40	45	50	55	60	65	70	75	80
Screw size	—	4×1.8		5×2.3				6×2.8				8×3.3			10×3.3		12×3.3	14×3.8		16×4.3	18×4.4		20×4.9		22×5.4
Catalog Number	M5	M4						M5				M6			M8			M10		M12			M16		
SSCPG5-20 J BORE																									
SSCPG5-25 J BORE																									
SSCPG5-30 J BORE																									
SSCPG5-40 J BORE																									
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SSCPG15-30 J BORE																									
SSCPG20-25 J BORE																									
SSCPG20-30 J BORE																									

[Caution on J series] ① Cancellation is not possible for made-to-order products. See page 42 for lead times and allowable order quantities. See page 44 for other precautions.

Product Precautions → Page 274 | Precautions for Standard Machined Products → Pages 42~44

You can download CAD data (DXF format) of KHK Products from the Website.