Superior compatibility with servos for speed reducers



We recommend ideal pinions for speed reducers

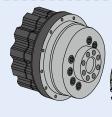




J Series R Series Even broader lineup!

Perfect for Nabtesco Corporation's GH Series Nabtesco + R







Flange attached complete products















VRG Series

IB Series

HPG Series

Also perfect for shaft type speed reducers



Nissei Nissei Corporation

Parallel Axes











■ Pinion gear applicability table for Nabtesco GH Series Nabtesco + R

See Page 92 for more details Corresponding speed reducer size and pinion gears

Nabtesco	KHK target products								
GH Series	Module Type	CP Type	Helical Type						
7	SSG3-30RGH7	SSCPG10-30RGH7	ZSTP3-30LRGH7						
17	SSG3-40RGH17	SSCPG10-40RGH17	ZSTP3-30LRGH17						
24	SSG4-30RGH24	SSCPG15-30RGH24	ZSTP4-30LRGH24						
40	SSG5-30RGH40	SSCPG15-30RGH40	ZSTP5-24LRGH40						
100	SSG6-30RGH100	SSCPG20-30RGH100							







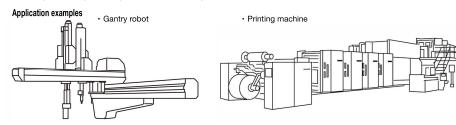
Rack and pinion for corresponding flange output speed reducers

See Page 90 for more details

Mounting hub dia. H (Common to all speed reducers)	Nidec Shimpo VRG Series	Sumitomo Heavy Industries IB Series	Harmonic Drive Systems HPG Series	R Series Catalog Number	s	KHK recommended mating rack
24	C90	P120	20		R24	KRGFSeries
32	D120	P130	32	SSG Module - No. of teeth	R32	SRGFSeries
47	E170	_	50	55G Module - No. of teeth	R47	SRFSeries
60	_	_	65		R60	See Page 213

R series catalog numbers are composed as follows:

(Base SSG ground spur gear catalog number) + R + (mounting hub diameter)



Series for shaft output speed reducers (with key)

SSG2-19J12

SSG2.5-19J15

KSG2-32J18

KSG3-25J22

KSG3-32J28



See Page 52 for more details

Pinion gears corresponding to speed reducer sizes See Page 62 for more details

KHK target products Capacity Frame No. Catalog Number 12 SSG2-19J12 15 SSG2.5-19J15 100W 18 SSG2.5-24J18 12 SSG2-19J12 15 SSG2.5-19J15 200W 18 KSG2-32J18 22 KSG3-25J22

12

15

18

22

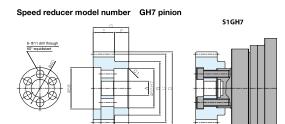
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400W

sei C Series	KHK target products				
Frame No.	Catalog Number				
18	KSG2-32J18				
22	KSG3-25J22				
28	KSG3-32J28				
22	KSG3-25J22				
28	KSG3-32J28				
22	KSG3-25J22				
28	KSG3-32J28				
22	KSG3-25J22				
28	KSG3-32J28				
28	KSG3-32J28				
	C Series Frame No. 18 22 28 22 28 22 28 22 28 22 28 22 28				

When a key is not needed, try the friction fastening **F** Series **E** Series

Be sure to calculate the strength under actual usage conditions before use.



SSG Series

Con	nmon Specifications							
Precision grade	JIS N7 grade (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 and portions given secondary operation							

SSCPG Series							
Con	Common Specifications						
Precision grade	JIS N7 grade (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 and portions giver secondary operation							

ZSTP Series

Con	nmon Specifications									
Precision grade	JIS B 1702-1:1998 N6 grade									
Reference section of gear	Normal plane									
Gear teeth	Standard full depth									
Pressure angle	20°									
Helix angle/direction	19° 31' 41" left helix									
Material	SCM440									
Heat treatment	Thermal refined, gear teeth induction hardened									
Tooth hardness	HRC50 to 60									
Surface treatment	Black oxide coated except for teeth and portions given secondary operation									

Speed reducer	Catalog Number	Module/pitch	No. of teeth Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	h Hub width Total	Total length	
model number	Catalog Number	wodule/pitch		Shape	А н7	В	С	D	Е	F	G
	SSG3-30RGH7	m3	30	S1GH7	25	75	90	96	30	20	50
GH7	SSCPG10-30RGH7	CP10 (m3.1831)	30	S1GH7	20	75	95.49	101.86	30	20	50
	ZSTP3-30LRGH7	m3(CP10)	30	S1GH7	25	85	95.49	104	30	20	50

Speed reducer	Catalog Number	Module/pitch	No. of	No. of teeth Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length
model number			teeth		Ан7	В	С	D	Е	F	G
	SSG3-40RGH17	m3	40	S1GH17	25	80	120	126	30	20	50
GH17	SSCPG10-40RGH17	CP10 (m3.1831)	40	S1GH17	25	80	127.32	133.69	30	20	50
1	ZSTP3-30LRGH17	m3(CP10)	30	S1GH17	25	85	95.49	104	30	20	50

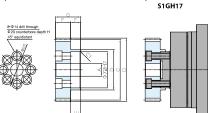
	Speed reducer model number	Catalog Number	Module/pitch	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length
						Ан7	В	С	D	Е	F	G
	1	SSG4-30RGH24	m4	30	S1GH24	20	90	120	128	40	25	65
		SSCPG15-30RGH24	CP15 (m4.7746)	30	S1GH24	25	110	143.24	152.79	50	27	77
		ZSTP4-30LRGH24	m4(CP13.333)	30	S1GH24	25	110	127.32	138	40	25	65

	Speed reducer	Catalog Number	Module/pitch	No. of teeth Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	
-	model number				Shape	Ан7	В	С	D	Е	F	G
	GH40	SSG5-30RGH40	m5	30	S1GH40	25	120	150	160	50	25	75
		SSCPG15-30RGH40	CP15 (m4.7746)	30	S1GH40	25	110	143.24	152.79	50	27	77
-		ZSTP5-24LRGH40	m5(CP16.667)	24	S1GH40	25	110	127.32	142	50	25	75

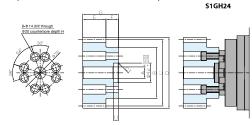
	Speed reducer	Catalog Number	Module/pitch	No. of Shape		Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length
	model number	Catalog Number		teeth	Shape	А н7	В	С	D	Е	F	G
ſ	GH100	SSG6-30RGH100	m6	30	S1GH100	30	150	180	192	60	28	88
ı	GHIUU	SSCPG20-30RGH100	CP20 (m6.3662)	30	S1GH100	30	150	190.986	203.72	60	30	90

- [Cautions on Product Characteristics] ① The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see Page 38 for more details.
 - ② The R Series is given secondary operations and has accuracy grades "equivalent" to the original products.

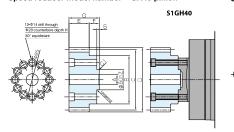
Speed reducer model number GH17 pinion



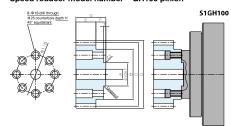
Speed reducer model number GH24 pinion



Speed reducer model number GH40 pinion



Speed reducer model number GH100 pinion



	Counterbore depth	Included Allowable torque (N·m)		Weight	Mating rack	Catalog Number	Speed reducer	
	Н	screws	Bending strength	Surface durability	(kg)	IVIALITY TACK	Catalog Number	model number
	11	M10×45	251	209	1.422	SRGF3-1000	SSG3-30RGH7	
	11	M10×45	283	240	1.635	SRGCPF10-1000	SSCPG10-30RGH7	GH7
ſ	11	M10×45	551	676	1.808	08 ZST3-1000R ZSTP3-30LRGH7		

Counterbore depth			orque (N·m) Surface durability		Mating rack	Catalog Number	Speed reducer model number
13	M12×45	358	407	2.281	SRGF3-1000	SSG3-40RGH17	
13	M12×45	403	466	2.616	SRGCPF10-1000	SSCPG10-40RGH17	GH17
13	M12×45	551	676	1.406	ZST3-1000R	ZSTP3-30LRGH17	

	Counterbore depth			orque (N·m) Surface durability		Mating rack	Catalog Number	Speed reducer model number
ı	29	M12×55	595	501	3.627	SRGF4-1000	SSG4-30RGH24	
ı	41	M12×55	838	577	6.808	SRGCPF15-1000	SSCPG15-30RGH24	GH24
- [20	MIDVEE	006	972	4615	75T4 1000D	75TD4_30LDGH24	

Counterbore depth			orque (N·m) Surface durability		Mating rack	Catalog Number	Speed reducer model number
13	M12×75	1070	916	7.230	SRGF5-1000	SSG5-30RGH40	
15	M12×75	978	821	6.431	SRGCPF15-1000	SSCPG15-30RGH40	GH40
13	M12~75	1080	1850	5.022	7ST5-1000R	75TP5_24LPGH40	

Counterbore depth		Allowable torque (N·m Bending strength Surface durabilit			Mating rack	Catalog Number	Speed reducer model number
33	M16×75	1850	1600	12.754	SRGF6-1000	SSG6-30RGH100	GH100
35	M16×75	2090	1850	14 462	SRGCPE20-1000	SSCPG20-30RGH100	GHIOU

- [Cautions on R Series] ① As "available-on-request" products, these items are completed within two working days (excluding the order date). Because the machining starts immediately, we cannot accept cancellations. Please see Page 34 for more details.
 - 2 Number of pieces we can process on one order is 1 to 20 units. For larger quantities, please request price and delivery quotes.
 - ③ Portions subject to secondary operations such as the counter bore holes are not black oxide coated.
 - Required number of hexagon socket head cap screws are included.
 - S Be sure to calculate the strength under actual usage conditions before use.

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