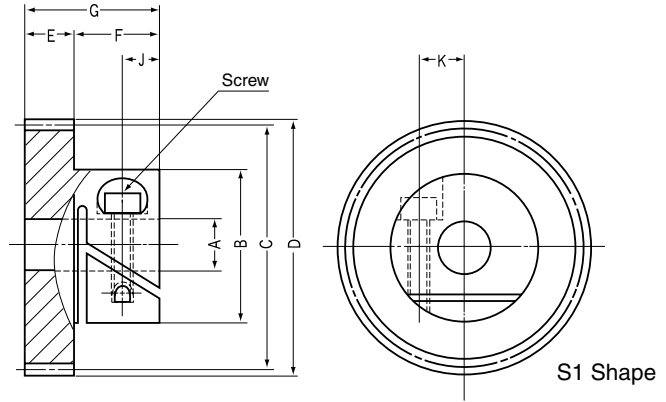
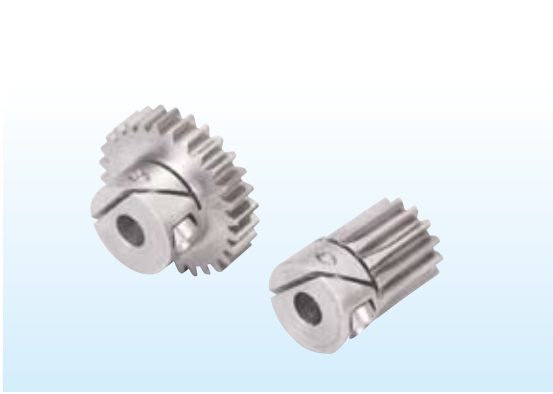




SUSL Stainless Steel Fairloc Hub Spur Gears Module 0.5

Spur Gears



Module 0.5

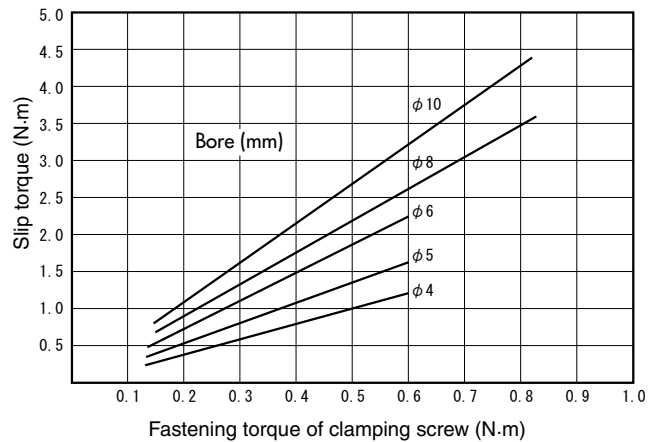
Catalog No.	Module	No. of teeth	Bore <small>NOTE 1</small>	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Cap Screw Dimensions		
	<i>m</i>	<i>z</i>	AH7	B	C	D	E	F	G	Size	J	K
SUSLO.5- 16	0.5	16	4	14	8	9	7	8	22	M2.5	3.3	4.4
SUSLO.5- 18	0.5	18	4	14	9	10	7	8	22	M2.5	3.3	4.4
SUSLO.5- 20	0.5	20	4	14	10	11	7	8	22	M2.5	3.3	4.4
SUSLO.5- 24	0.5	24	5	14	12	13	7	8	22	M2.5	3.3	4.4
SUSLO.5- 25	0.5	25	5	14	12.5	13.5	7	8	22	M2.5	3.3	4.4
SUSLO.5- 28	0.5	28	5	14	14	15	7	8	22	M2.5	3.3	4.4
SUSLO.5- 30	0.5	30	5	14	15	16	7	8	22	M2.5	3.3	4.4
SUSLO.5- 32	0.5	32	6	17	16	17	5	10	15	M3	4.5	5.3
SUSLO.5- 36	0.5	36	6	17	18	19	5	10	15	M3	4.5	5.3
SUSLO.5- 40	0.5	40	6	17	20	21	5	10	15	M3	4.5	5.3
SUSLO.5- 45	0.5	45	6	17	22.5	23.5	5	10	15	M3	4.5	5.3
SUSLO.5- 48	0.5	48	6	17	24	25	5	10	15	M3	4.5	5.3
SUSLO.5- 50	0.5	50	6	17	25	26	5	10	15	M3	4.5	5.3
SUSLO.5- 54	0.5	54	6	17	27	28	5	10	15	M3	4.5	5.3
SUSLO.5- 56	0.5	56	6	17	28	29	5	10	15	M3	4.5	5.3
SUSLO.5- 60	0.5	60	8	17	30	31	5	10	15	M3	4.5	6
SUSLO.5- 64	0.5	64	8	17	32	33	5	10	15	M3	4.5	6
SUSLO.5- 70	0.5	70	8	17	35	36	5	10	15	M3	4.5	6
SUSLO.5- 72	0.5	72	8	17	36	37	5	10	15	M3	4.5	6
SUSLO.5- 75	0.5	75	8	17	37.5	38.5	5	10	15	M3	4.5	6
SUSLO.5- 80	0.5	80	10	24	40	41	5	14	19	M4	5.3	7.7
SUSLO.5- 90	0.5	90	10	24	45	46	5	14	19	M4	5.3	7.7
SUSLO.5- 96	0.5	96	10	24	48	49	5	14	19	M4	4.9	8
SUSLO.5- 100	0.5	100	10	24	50	51	5	14	19	M4	4.9	8
SUSLO.5- 112	0.5	112	10	24	56	57	5	14	19	M4	4.9	8
SUSLO.5- 120	0.5	120	10	24	60	61	5	14	19	M4	4.9	8

NOTE 1: The bore cannot be modified. It is possible to pin the gear to the shaft to prevent slippage.

Fastening torque vs. Slip torque

The slip torque which is dependent on the fastening torque can sometimes be less than the gear strength. Please use caution in selecting. The chart on the right shows the relationship between the slip torque and the fastening torque.

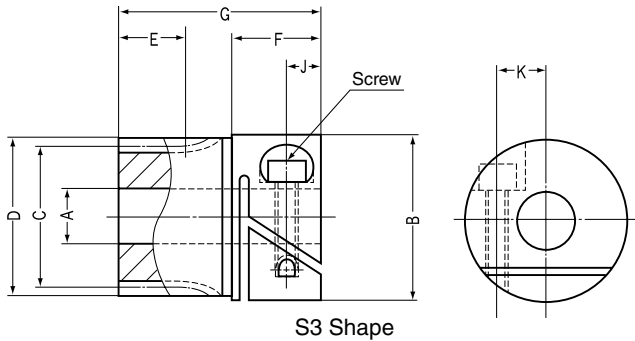
Fastening torque vs. Slip torque



*Data supplied by Designatronics Inc.



Stainless Steel Fairloc Hub Spur Gears



S3 Shape

Specifications

Precision grade	JIS N8 grade (JIS B1702-1: 1998) OLD JIS 4 grade (JIS B1702: 1976)	Tooth hardness	Less than 187HB
Gear teeth	Standard full depth	Surface treatment	—
Pressure angle	20°	Tooth surface finish	Cut
Material	SUS303	Datum reference surface for gear cutting	Bore
Heat treatment	—	Secondary Operations	Not Possible

Shape	Allowable torque (N·m) NOTE 2		Allowable torque (kgf·m)		Recommended Fastening torque NOTE 3		Backlash (mm) NOTE 4	Weight (kgf)	Catalog No.
	Bending strength	Surface durability	Bending strength	Surface durability	(N·m)	(kgf·m)			
S3	0.3962	0.0226	(0.0404)	(0.0023)	0.6	6.12	0 ~ 0.1	0.02	SUSL0.5- 16
S3	0.4746	0.0304	(0.0484)	(0.0031)	0.6	6.12	0 ~ 0.1	0.02	SUSL0.5- 18
S3	0.556	0.0382	(0.0567)	(0.0039)	0.6	6.12	0 ~ 0.1	0.02	SUSL0.5- 20
S3	0.7227	0.0559	(0.0737)	(0.0057)	0.6	6.12	0 ~ 0.1	0.02	SUSL0.5- 24
S3	0.7649	0.0608	(0.078)	(0.0062)	0.6	6.12	0 ~ 0.1	0.02	SUSL0.5- 25
S3	0.8934	0.0785	(0.0911)	(0.008)	0.6	6.12	0 ~ 0.1	0.02	SUSL0.5- 28
S3	0.9807	0.0912	(0.1)	(0.0093)	0.6	6.12	0 ~ 0.1	0.02	SUSL0.5- 30
S3	0.7629	0.0755	(0.0778)	(0.0077)	0.6	6.12	0 ~ 0.1	0.02	SUSL0.5- 32
S3	0.8904	0.0961	(0.0908)	(0.0098)	0.6	6.12	0 ~ 0.1	0.02	SUSL0.5- 36
S1	1.018	0.1187	(0.1038)	(0.0121)	0.6	6.12	0 ~ 0.1	0.02	SUSL0.5- 40
S1	1.18	0.152	(0.1203)	(0.0155)	0.6	6.12	0 ~ 0.1	0.02	SUSL0.5- 45
S1	1.278	0.1746	(0.1303)	(0.0178)	0.6	6.12	0 ~ 0.1	0.04	SUSL0.5- 48
S1	1.343	0.1902	(0.137)	(0.0194)	0.6	6.12	0 ~ 0.1	0.04	SUSL0.5- 50
S1	1.475	0.2246	(0.1504)	(0.0229)	0.6	6.12	0 ~ 0.1	0.04	SUSL0.5- 54
S1	1.542	0.2422	(0.1572)	(0.0247)	0.6	6.12	0 ~ 0.1	0.04	SUSL0.5- 56
S1	1.674	0.2805	(0.1707)	(0.0286)	0.8	8.16	0 ~ 0.1	0.04	SUSL0.5- 60
S1	1.806	0.3207	(0.1842)	(0.0327)	0.8	8.16	0 ~ 0.1	0.04	SUSL0.5- 64
S1	2.006	0.3883	(0.2046)	(0.0396)	0.8	8.16	0 ~ 0.1	0.04	SUSL0.5- 70
S1	2.073	0.4119	(0.2114)	(0.042)	0.8	8.16	0 ~ 0.1	0.06	SUSL0.5- 72
S1	2.174	0.4491	(0.2217)	(0.0458)	0.8	8.16	0 ~ 0.1	0.06	SUSL0.5- 75
S1	2.342	0.5148	(0.2388)	(0.0525)	0.8	8.16	0 ~ 0.1	0.08	SUSL0.5- 80
S1	2.678	0.66	(0.2731)	(0.673)	0.8	8.16	0 ~ 0.1	0.08	SUSL0.5- 90
S1	2.88	0.7561	(0.2937)	(0.0771)	0.8	8.16	0 ~ 0.1	0.1	SUSL0.5- 96
S1	3.016	0.8238	(0.3075)	(0.084)	0.8	8.16	0 ~ 0.1	0.1	SUSL0.5-100
S1	3.422	1.045	(0.349)	(0.1066)	0.8	8.16	0 ~ 0.1	0.12	SUSL0.5-112
S1	3.693	1.208	(0.3766)	(0.1232)	0.8	8.16	0 ~ 0.1	0.14	SUSL0.5-120

NOTE 2: The allowable torques shown in the table are calculated values to the assumed usage conditions. Please see page 27 for more details.

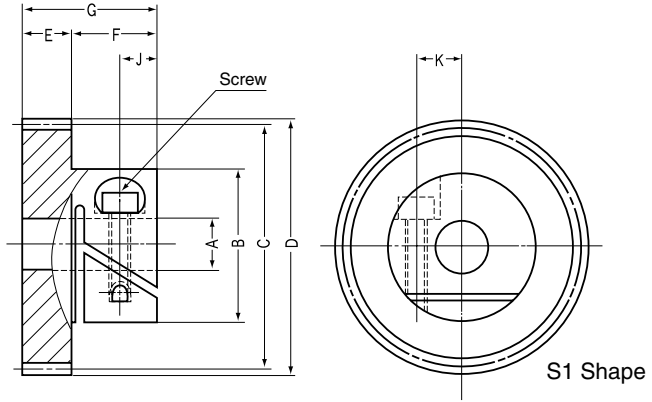
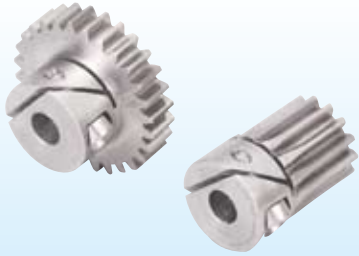
NOTE 3: Do not tighten the clamping screw without inserting a shaft, or the bore will be permanently deformed and will not accept a shaft.

NOTE 4: The backlash values shown in the table are the theoretical values of a pair of identical gears in mesh.



SUSL Stainless Steel Fairloc Hub Spur Gears Module 0.8~1

Spur Gears



S1 Shape

Module 0.8

Catalog No.	Module	No. of teeth	Bore NOTE 1	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Cap Screw Dimensions		
	m	z	AH7	B	C	D	E	F	G	Size	J	K
SUSLO.8- 14	0.8	14	4	14	11.2	12.8	7	8	22	M2.5	3.3	4.4
SUSLO.8- 15	0.8	15	4	14	12	13.6	7	8	22	M2.5	3.3	4.4
SUSLO.8- 16	0.8	16	4	14	12.8	14.4	7	8	22	M2.5	3.3	4.4
SUSLO.8- 18	0.8	18	4	14	14.4	16	7	8	22	M2.5	3.3	4.4
SUSLO.8- 20	0.8	20	4	14	16	17.6	5	8	13	M2.5	3.3	4.4
SUSLO.8- 22	0.8	22	4	14	17.6	19.2	5	8	13	M2.5	3.3	4.4
SUSLO.8- 24	0.8	24	5	14	19.2	20.8	5	8	13	M2.5	3.3	4.4
SUSLO.8- 25	0.8	25	5	14	20	21.6	5	8	13	M2.5	3.3	4.4
SUSLO.8- 28	0.8	28	5	14	22.4	24	5	8	13	M2.5	3.3	4.4
SUSLO.8- 30	0.8	30	5	14	24	25.6	5	8	13	M2.5	3.3	4.4
SUSLO.8- 32	0.8	32	5	14	25.6	27.2	5	8	13	M2.5	3.3	4.4
SUSLO.8- 36	0.8	36	6	17	28.8	30.4	5	10	15	M3	4.5	5.3
SUSLO.8- 40	0.8	40	6	17	32	33.6	5	10	15	M3	4.5	5.3
SUSLO.8- 45	0.8	45	6	17	36	37.6	5	10	15	M3	4.5	5.3
SUSLO.8- 48	0.8	48	6	17	38.4	40	5	10	15	M3	4.5	5.3
SUSLO.8- 50	0.8	50	6	17	40	41.6	5	10	15	M3	4.5	5.3
SUSLO.8- 54	0.8	54	6	17	43.2	44.8	5	10	15	M3	4.5	5.3
SUSLO.8- 56	0.8	56	6	17	44.8	46.4	5	10	15	M3	4.5	5.3
SUSLO.8- 60	0.8	60	8	17	48	49.6	5	10	15	M3	4.5	6
SUSLO.8- 64	0.8	64	8	17	51.2	52.8	5	10	15	M3	4.5	6
SUSLO.8- 72	0.8	72	8	17	57.6	59.2	5	10	15	M3	4.5	6
SUSLO.8- 80	0.8	80	10	24	64	65.6	5	14	19	M4	4.9	8
SUSLO.8- 90	0.8	90	10	24	72	73.6	5	14	19	M4	4.9	8
SUSLO.8-100	0.8	100	10	24	80	81.6	5	14	19	M4	4.9	8

Module 1

SUSL1- 14	1	14	6	17	14	16	8	10	25	M3	4.5	5.3
SUSL1- 15	1	15	6	17	15	17	8	10	25	M3	4.5	5.3
SUSL1- 16	1	16	6	17	16	18	8	10	25	M3	4.5	5.3
SUSL1- 18	1	18	6	17	18	20	8	10	25	M3	4.5	5.3
SUSL1- 20	1	20	6	17	20	22	6	10	16	M3	4.5	5.3
SUSL1- 24	1	24	6	17	24	26	6	10	16	M3	4.5	5.3
SUSL1- 25	1	25	6	17	25	27	6	10	16	M3	4.5	5.3
SUSL1- 28	1	28	6	17	28	30	6	10	16	M3	4.5	5.3
SUSL1- 30	1	30	8	17	30	32	6	10	16	M3	4.5	6
SUSL1- 32	1	32	8	17	32	34	6	10	16	M3	4.5	6
SUSL1- 35	1	35	8	17	35	37	6	10	16	M3	4.5	6
SUSL1- 36	1	36	8	17	36	38	6	10	16	M3	4.5	6
SUSL1- 40	1	40	8	17	40	42	6	10	16	M3	4.5	6
SUSL1- 45	1	45	8	17	45	47	6	10	16	M3	4.5	6
SUSL1- 48	1	48	8	17	48	50	6	10	16	M3	4.5	6
SUSL1- 50	1	50	10	24	50	52	6	14	20	M4	4.9	8
SUSL1- 56	1	56	10	24	56	58	6	14	20	M4	4.9	8
SUSL1- 60	1	60	10	24	60	62	6	14	20	M4	4.9	8
SUSL1- 64	1	64	10	24	64	66	6	14	20	M4	4.9	8
SUSL1- 70	1	70	10	24	70	72	6	14	20	M4	4.9	8
SUSL1- 72	1	72	10	24	72	74	6	14	20	M4	4.9	8
SUSL1- 80	1	80	10	24	80	82	6	14	20	M4	4.9	8
SUSL1- 90	1	90	10	24	90	92	6	14	20	M4	4.9	8
SUSL1-100	1	100	10	24	100	102	6	14	20	M4	4.9	8

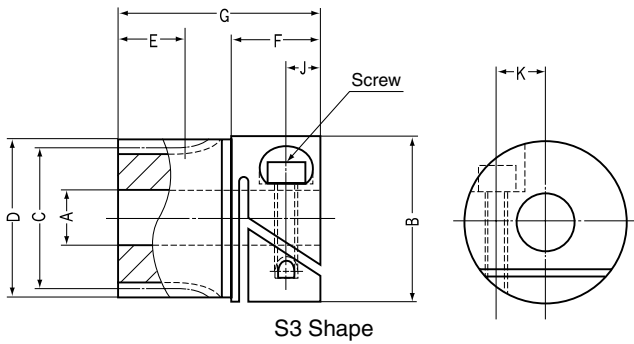
CAUTION: Gears with wider face widths such as SS and SSA series can be used as the mating gears to these.

NOTE 1: The bore cannot be modified. It is possible to pin the gear to the shaft to prevent slippage.

NOTE 2: The hub configurations are slightly different from the drawings shown above. But there is no difference in functionality.



Stainless Steel Fairloc Hub Spur Gears



Specifications

Precision grade	JIS N8 grade (JIS B1702-1: 1998) OLD JIS 4 grade (JIS B1702: 1976)	Tooth hardness	Less than 187HB
Gear teeth	Standard full depth	Surface treatment	—
Pressure angle	20°	Tooth surface finish	Cut
Material	SUS303	Datum reference surface for gear cutting	Bore
Heat treatment	—	Secondary Operations	Not Possible

Shape	Allowable torque (N·m) NOTE 3		Allowable torque (kgf·m)		Recommended Fastening torque NOTE 4		Backlash (mm) NOTE 5	Weight (kgf)	Catalog No.
	Bending strength	Surface durability	Bending strength	Surface durability	(N·m)	(kgf·m)			
S3	0.8179	0.0481	(0.0834)	(0.0049)	0.6	6.12	0 ~ 0.1	0.02	SUSLO.8- 14
S3	0.915	0.0559	(0.0933)	(0.0057)	0.6	6.12	0 ~ 0.1	0.02	SUSLO.8- 15
S3	1.013	0.0647	(0.1033)	(0.0066)	0.6	6.12	0 ~ 0.1	0.02	SUSLO.8- 16
S3	1.216	0.0834	(0.124)	(0.0085)	0.6	6.12	0 ~ 0.1	0.02	SUSLO.8- 18
S1	1.016	0.0755	(0.1036)	(0.0077)	0.6	6.12	0 ~ 0.1	0.02	SUSLO.8- 20
S1	1.167	0.0912	(0.119)	(0.0093)	0.6	6.12	0 ~ 0.1	0.02	SUSLO.8- 22
S1	1.321	0.1098	(0.1347)	(0.0112)	0.6	6.12	0 ~ 0.1	0.02	SUSLO.8- 24
S1	1.398	0.1187	(0.1426)	(0.0121)	0.6	6.12	0 ~ 0.1	0.02	SUSLO.8- 25
S1	1.634	0.151	(0.1666)	(0.0154)	0.6	6.12	0 ~ 0.1	0.02	SUSLO.8- 28
S1	1.794	0.1746	(0.1829)	(0.0178)	0.6	6.12	0 ~ 0.1	0.02	SUSLO.8- 30
S1	1.953	0.2001	(0.1992)	(0.0204)	0.6	6.12	0 ~ 0.1	0.02	SUSLO.8- 32
S1	2.278	0.2569	(0.2323)	(0.0262)	0.6	6.12	0 ~ 0.1	0.04	SUSLO.8- 36
S1	2.607	0.3207	(0.2658)	(0.0327)	0.6	6.12	0 ~ 0.1	0.04	SUSLO.8- 40
S1	3.021	0.4119	(0.3081)	(0.042)	0.6	6.12	0 ~ 0.1	0.06	SUSLO.8- 45
S1	3.271	0.4717	(0.3336)	(0.0481)	0.6	6.12	0 ~ 0.1	0.06	SUSLO.8- 48
S1	3.439	0.5148	(0.3507)	(0.0525)	0.6	6.12	0 ~ 0.1	0.06	SUSLO.8- 50
S1	3.777	0.6051	(0.3851)	(0.0617)	0.6	6.12	0 ~ 0.1	0.06	SUSLO.8- 54
S1	3.945	0.6541	(0.4023)	(0.0667)	0.6	6.12	0 ~ 0.1	0.08	SUSLO.8- 56
S1	4.284	0.7561	(0.4369)	(0.0771)	0.8	8.16	0 ~ 0.1	0.08	SUSLO.8- 60
S1	4.625	0.8659	(0.4716)	(0.0883)	0.8	8.16	0 ~ 0.1	0.08	SUSLO.8- 64
S1	5.308	1.109	(0.5413)	(0.1131)	0.8	8.16	0 ~ 0.1	0.1	SUSLO.8- 72
S1	5.995	1.383	(0.6113)	(0.141)	0.8	8.16	0 ~ 0.1	0.16	SUSLO.8- 80
S1	6.856	1.769	(0.6991)	(0.1804)	0.8	8.16	0 ~ 0.1	0.2	SUSLO.8- 90
S1	7.721	2.211	(0.7873)	(0.2255)	0.8	8.16	0 ~ 0.1	0.22	SUSLO.8-100

S3	1.46	0.0883	(0.1489)	(0.009)	0.6	6.12	0 ~ 0.1	0.04	SUSL1- 14
S3	1.634	0.102	(0.1666)	(0.0104)	0.6	6.12	0 ~ 0.1	0.04	SUSL1- 15
S3	1.809	0.1177	(0.1845)	(0.012)	0.6	6.12	0 ~ 0.1	0.04	SUSL1- 16
S3	2.17	0.152	(0.2213)	(0.0155)	0.6	6.12	0 ~ 0.1	0.04	SUSL1- 18
S1	1.905	0.1432	(0.1943)	(0.0146)	0.6	6.12	0 ~ 0.1	0.02	SUSL1- 20
S1	2.476	0.2099	(0.2525)	(0.0214)	0.6	6.12	0 ~ 0.1	0.04	SUSL1- 24
S1	2.622	0.2285	(0.2674)	(0.0233)	0.6	6.12	0 ~ 0.1	0.04	SUSL1- 25
S1	3.064	0.2903	(0.3124)	(0.0296)	0.6	6.12	0 ~ 0.1	0.04	SUSL1- 28
S1	3.363	0.3364	(0.3429)	(0.0343)	0.8	8.16	0 ~ 0.1	0.04	SUSL1- 30
S1	3.664	0.3854	(0.3736)	(0.0393)	0.8	8.16	0 ~ 0.1	0.04	SUSL1- 32
S1	4.119	0.4658	(0.42)	(0.0475)	0.8	8.16	0 ~ 0.1	0.06	SUSL1- 35
S1	4.272	0.4943	(0.4356)	(0.0504)	0.8	8.16	0 ~ 0.1	0.06	SUSL1- 36
S1	4.888	0.6178	(0.4984)	(0.063)	0.8	8.16	0 ~ 0.1	0.06	SUSL1- 40
S1	5.665	0.7914	(0.5777)	(0.0807)	0.8	8.16	0 ~ 0.1	0.08	SUSL1- 45
S1	6.135	0.9071	(0.6256)	(0.0925)	0.8	8.16	0 ~ 0.1	0.1	SUSL1- 48
S1	6.449	0.9885	(0.6576)	(0.1008)	0.8	8.16	0 ~ 0.1	0.12	SUSL1- 50
S1	7.397	1.254	(0.7543)	(0.1279)	0.8	8.16	0 ~ 0.1	0.14	SUSL1- 56
S1	8.033	1.449	(0.8191)	(0.1478)	0.8	8.16	0 ~ 0.1	0.16	SUSL1- 60
S1	8.671	1.659	(0.8842)	(0.1692)	0.8	8.16	0 ~ 0.1	0.18	SUSL1- 64
S1	9.631	2.002	(0.9821)	(0.2041)	0.8	8.16	0 ~ 0.1	0.2	SUSL1- 70
S1	9.954	2.123	(1.015)	(0.2165)	0.8	8.16	0 ~ 0.1	0.22	SUSL1- 72
S1	11.24	2.654	(1.146)	(0.2706)	0.8	8.16	0 ~ 0.1	0.26	SUSL1- 80
S1	12.86	3.403	(1.311)	(0.347)	0.8	8.16	0 ~ 0.1	0.32	SUSL1- 90
S1	14.47	4.249	(1.476)	(0.4333)	0.8	8.16	0 ~ 0.1	0.38	SUSL1-100

NOTE 3: The allowable torques shown in the table are calculated values to the assumed usage conditions. Please see page 27 for more details.

NOTE 4: Do not tighten the clamping screw without inserting a shaft, or the bore will be permanently deformed and will not accept a shaft.

NOTE 5: The backlash values shown in the table are the theoretical values of a pair of identical gears in mesh.