Power-Lock® SL Series

Sizes: $\phi 24 \sim \phi 300$

Hub outer diameter tolerance: h7

Hub bore tolerance: H7
Surface roughness: Ra1.6
(Shaft tolerance: h6)



Features

1 External Lock

Excellent for hollow shaft or space restricted installation.

Pigh Torque

The larger the shaft diameter, the greater the transmissible torque.

3 Easy to Install and Remove

Installs or removes just by the tightening or loosening of bolts. No need to hassle with adjusting keyways and thermal fittings.

4 Simple Construction

Simply constructed with only an inner ring and taper rings A and B. Simply tighten the locking bolts to achieve a completely secure connection.

Parts







Inner Ring



Taper Ring B

"Power-Lock" SL Series shafthub locking devices are constructed of the following three parts: taper rings A and B—each with a tapered inner diameter—and an inner ring with a tapered outer diameter. As the locking bolts are tightened, the tapered surfaces of taper rings A and B slide together.

Reference Number System

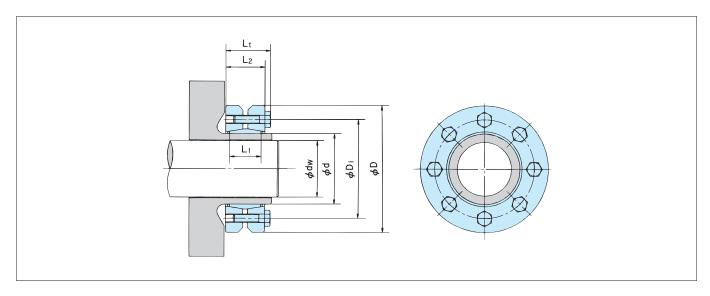
PL 024 X 050 SL

Taper Ring A

SL Series
SL Outer Diameter mm
Hub Outer Diameter mm
Power-Lock

The inner ring and locking bolts are coated with a special lubricant to avoid rust and to maintain a constant friction coefficient. Application of oil and grease is thus not necessary.

Model Numbers and Specifications

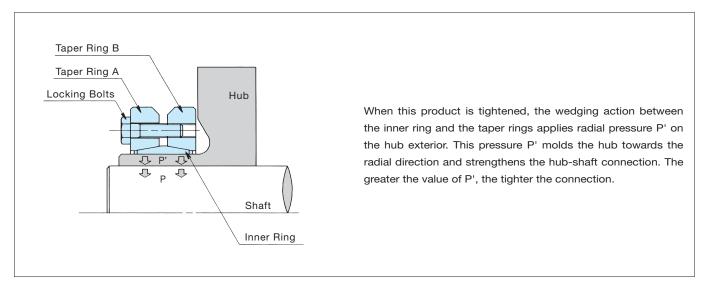


* Note) 3																			
	Model No.	Dimensions mm					Transmissible Torque		Transmissible Thrust		Shaft Contact Pressure		Hub Contact Pressure			Locking Bolts			Mass
	Hub Outer Diameter X SL Outer Diameter	uter Diameter X SL		Lt	Mt		Pax		Р		P'		Qty.	Size	Tightening Torque M A				
	mm						N·m	{kgf⋅m}	kN	kgf}	MPa	 {kgf/mm²}	MPa	 {kgf/mm²}	,		N·m	¦{kgf⋅m}	kg
		19					167	17	17.9	1830	199	20.3		1					
	PL 024 X 050 SL	20	36	14	19.5	23	205	¦ 21	20.6	2100	216	22.1	314	32.0	6	M 5×18	4.9	0.5	0.2
		21					243	25	23.2	2370	232	23.7		1				I I	
		24					256	26	21.4	2180	164	16.7		I				I	
	PL 030 X 060 SL	25	44	16	21.5	25	297	30	23.7	2420	175	17.8	254	26.0	7	M 5×18	4.9	0.5	0.3
		26					340	35	26.2	2670	185	18.9		i i				l I	
		28				l	459	47	32.8	3350	192	19.6		1				I I	
	PL 036 X 072 SL	30	52	18	23.5	27.5	570	58	38.0	3880	208	21.2	271	27.6	5	M 6×20	11.8	1.2	0.4
		31					599	61	38.7	3950	204	20.8		i				i	
	PL 044 X 080 SL	34		61 20	25.5	29.5	784	¦ 80	46.1	4700	200	20.4						i	
		35	61				857	¦ 87	49.0	5000	206	21.0	278 28	28.4	7	M 6×20	11.8	1.2	0.6
		36					934	95	51.9	5300	212	21.7		1				!	
		38					1010	103	53.0	5410	187	19.1		i				.	
	PL 050 X 090 SL	40	70	22	27.5	31.5	1180	120	58.8	6000	197	20.1	258	26.3	8	M 6×22	11.8	1.2	0.8
		42					1360	139	64.8	6610	207	21.1		1				I L	
		42					1120	115	53.5	5460	163	16.7		1				I I	
	PL 055 X 100 SL	45	75	23	30.5	34.5	1390	142	61.7	6300	176	17.9	226	23.0	8	M 6×25	11.8	1.2	1.1
		48					1680	172	70.2	7160	187	19.1		i				<u> </u>	
		48					1850	189	77.2	7880	195	19.9							
	PL 062 X 110 SL	50	86	23	30.5	34.5	2080	1 1	83.1	8480	202	20.6	249	25.4	10	M 6×25	11.8	1.2	1.3
		52					2220	227	85.6	8730	200	20.4		1				I	
	DI 0/0 // 115 01	50					1780	182	71.2	7270	173	17.6							
	PL 068 X 115 SL	55	86	6 23	30.5	34.5	2230	227	80.9	8260	179	18.2	229	23.4	10	M 6×25	11.8	1.2	1.4
		60					2870	293	95.7	9770	194	19.8		1				-	
	PL 075 X 138 SL	55	100	0 25	32.5	38	2590	265	94.4	9630	192	19.5	050	05.0	7		00.4	1 00	
		60	100				3310	338	111	11300	206	21.0	253	25.9	7	M 8×30	29.4	3.0	1.7
		65 60					4120	421	126 99.3	12900	218 185	22.2							
	DI 000 V 145 CI	65	100	25	32.5	38	2980 3720	304	115	11700	185	18.9	239	24.4	7	M 0 20	29.4	3.0	1.0
	PL 080 X 145 SL	70	100	25	32.5	38			130			20.1	239	24.4	/	M 8×30	29.4	1 3.0	1.9
		65					4560 4600	465	141	13300	208	21.2		1				I	
	DI 000 V 155 CI	70	114	30	39	44.5	5600	¦ 469 571	160	14400	203	20.7	255	26.0	10	M 8×35	29.4	3.0	3.3
	PL 090 X 155 SL	75	114	30	39	44.5	6700	1	170	1		22.6	255	20.0	10	IVI OXOO	29.4	3.0	3.3
		70					5710	582	163	18200	222 191	1 22.0		1				I T	
	PL 100 X 170 SL	75	124	34	44	49.5	6840	'	182	18600	200	20.4	242	24.7	12	M 8×35	29.4	3.0	4.7
	FL 100 X 1/0 3L	80	124	34	44	49.0	8090		202	20600	200	20.4	242	24./	12	IVI OXOO	29.4	3.0	4.7
		75					6960	711	185	18900	177	18.1							
	PL 110 X 185 SL	80	136	39	50	57	8250	842	207	21100	185	18.8	226	23.1	9	M10×40	57.8	5.9	5.9
	1 L 1 1 0 X 1 0 3 3 L	85	100	07	50	3/	9360	'	221	22500	186	1 18.9	220	20.1	7	10110240	07.0	l 0.7	0.7
		00	1	1	1		7000	700	~~ !	, 22000	100	, 10.7				I	I		

Notes) 1. Stocked models are in bold.

^{2.} Mt indicates torque at 0 transmissible thrust, while Pax indicates transmissible thrust at 0 torque. If transmissible torque and thrust apply simultaneously calculate and compare the combined value with the transmissible torque provided in the table. 3. Dimensions when this product is attached to the shaft and hub.

Model Numbers and Specifications

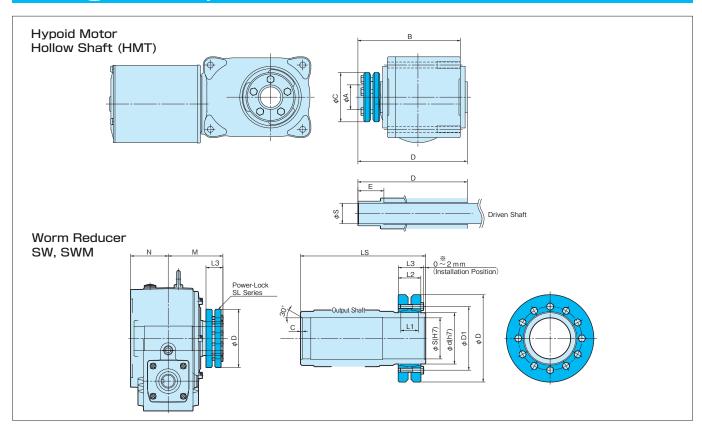


* Note) 2 Transmissible Shaft Contact Hub Contact Pressure Transmissible Mass Dimensions Locking Bolts Model No. Torque Thrust Pressure mm Tightening Hub Outer Diameter X Mt Pax Torque MA D_1 dw Lı L2 Lt Quantity Size SL Outer Diameter N·m {kgf·m} {kgf} MPa kgf/mm² MPa {kgf/mm² N·m {kgf·m} kg kΝ mm 19.1 PL 125 X 215 SL 19.8 M10×40 8.3 24.4 57.8 20.4 20.0 PL 140 X 230 SL 60.5 68.5 M12×45 98.0 20.5 24.7 21.0 19.9 PL 155 X 265 SL 64.5 72.5 20.3 24.2 M12×50 98.0 20.7 22.7 PL 165 X 290 SL 23.0 26.4 M16×55 23.0 21.2 PL 175 X 300 SI 21.6 25.1 M16×55 22.0 19.8 PL 185 X 330 SL 20.1 23.2 M16×65 20.4 22.5 PL 195 X 350 SL 23.0 26.0 M16×65 23.3 23.0 PL 200 X 350 SL 23.3 26.0 M16×65 23.6 21.0 PL 220 X 370 SL 21.2 23.9 M16×80 21.4 23.8 PL 240 X 405 SL M20×80 126000i 24.2 26.6 24.2 22.9 PL 260 X 430 SL 23.3 25.6 M20×90 188000i 23.6 22.2 PL 280 X 460 SL 219000! 22.5 24.6 M20×100 2110 215000 22.8 251000i 2190 | 223000 22.2 PL 300 X 485 SL 2310 236000 22.5 24.2 M20×100 22.6

Notes) 1. Mt indicates torque at 0 transmissible thrust, while Pax indicates transmissible thrust at 0 torque. If transmissible torque and thrust apply simultaneously calculate and compare the combined value with the transmissible torque provided in the table.

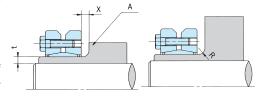
^{2.} Dimensions when this product is attached to the shaft and hub.

Design Examples



Notes on mounting to high-rigidity hubs (Refer to the diagram below)

When mounting this product on a highly rigid hub that has a large diameter at point A shown in the diagram, the distance X—the clearance between the product and the hub shoulder—must be considered. When X is too small it indicates an incomplete installation, thus standard torque will not be achieved. In this case, increase X so that it is greater than the thickness of the hub wall t. Only install this product if X is greater than t. For flanges or other hubs with large outer diameters, make sure the value of R is also large or at least R6mm.



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