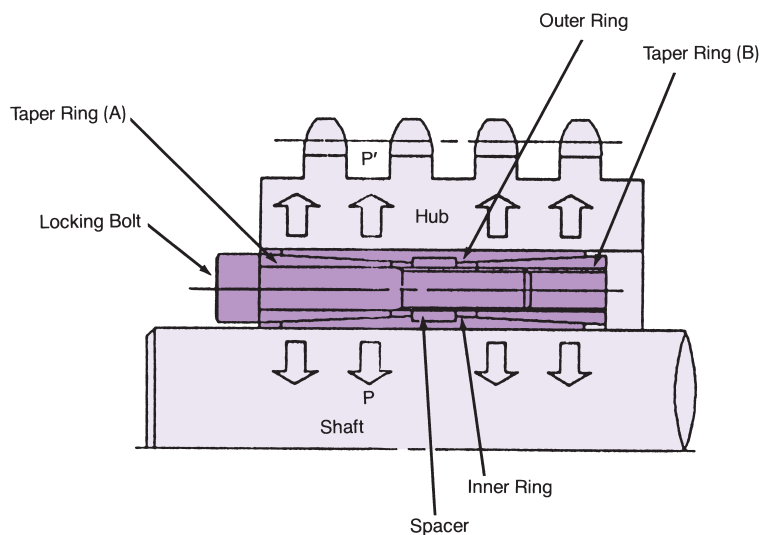


AD Inch/Metric Series



Features & Applications

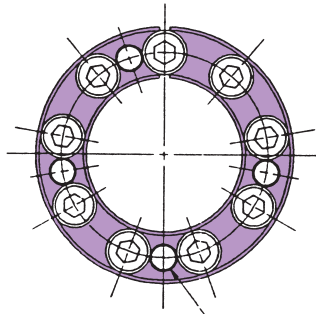
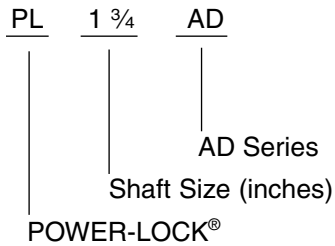
- **Over 2 Times Larger Transmissible Torque than that of AS Series**
- **Interchangeable with POWER-LOCK® AS Series**
Has the same size inside and outside diameter as AS Series POWER-LOCK in most cases.
- **Self-Centering Function**
Straight and narrow hubs can be used with AD Series POWER-LOCK
- **Easy and Precise Positioning**



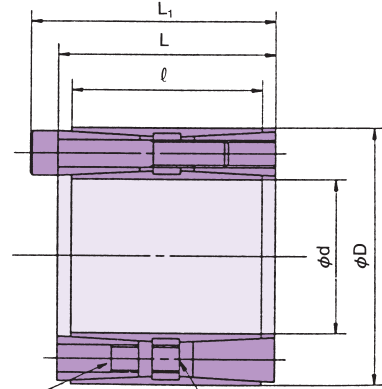
SPECIFICATIONS

AD Inch Series

MODEL NUMBER



Jack Screw Holes for Removing Taper Ring (A)



Jack Screw Holes for Removing Taper Ring (B)

AD Inch Series POWER-LOCK® Specifications

Model Number	Shaft O.D.		Hub Counter I.D.		Dimensions (inch)			Transmissible Torque Mt ft./lbs.	Transmissible Thrust Pax lbs.	Contact Pressure psi		Locking Bolts			Wt. lbs.	
	d	Tolerance t ₁	D	Tolerance t ₂	L	l	L ₁	Shaft P	Hub P'	Qty.	Size	Tightening Torque Ma ft./lbs.				
PL1	3/4	AD	1.750	2.953	+0.0015"	2.520	2.205	2.835	2,965	8,301	26,283	15,670	9	M8X50	29.7	2.835
PL1	7/8	AD	1.875	3.150	+0	2.520	2.205	2.835	2,965	8,822	24,668	14,650	9	M8X50	29.7	3.212
PL1	15/16	AD	1.938	3.150	-0	2.520	2.205	2.835	2,965	9,116	23,872	14,650	9	M8X50	29.7	3.096
PL2		AD	2.000	3.346		2.520	2.205	2.835	2,965	9,368	23,083	13,780	9	M8X50	29.7	3.612
PL2	1/8	AD	2.125	3.346		2.520	2.205	2.835	2,965	9,953	21,725	13,780	9	M8X50	29.7	3.361
PL2	3/16	AD	2.188	3.543		2.520	2.205	2.835	2,965	12,570	25,843	15,960	11	M8X50	29.7	3.883
PL2	1/4	AD	2.250	3.543		2.520	2.205	2.835	2,965	12,929	25,125	15,960	11	M8X50	29.7	3.748
PL2	3/8	AD	2.375	3.531		2.520	2.205	2.835	2,965	13,648	23,802	15,960	11	M8X50	29.7	3.467
PL2	7/16	AD	2.438	3.740		2.520	2.205	2.835	2,965	14,166	19,795	12,910	11	M8X50	29.7	4.048
PL2	1/2	AD	2.500	3.740	+0.0018"	2.520	2.205	2.835	2,965	14,529	19,300	12,910	11	M8X50	29.7	3.898
PL2	9/16	AD	2.563	3.737	+0	2.520	2.205	2.835	2,965	14,892	18,830	12,910	11	M8X50	29.7	3.744
PL2	5/8	AD	2.625	4.337	-0	3.071	2.756	3.465	5,997	24,308	27,256	16,540	11	M10X70	60.0	7.418
PL2	11/16	AD	2.688	4.337		3.071	2.756	3.465	5,997	24,887	26,623	16,540	11	M10X70	60.0	7.216
PL2	3/4	AD	2.750	4.337		3.071	2.756	3.465	5,997	25,465	26,018	16,540	11	M10X70	60.0	7.009
PL2	7/8	AD	2.875	4.528		3.071	2.756	3.465	5,997	26,347	24,876	15,810	11	M10X70	60.0	7.657
PL2	15/16	AD	2.938	4.528		3.071	2.756	3.465	5,997	26,920	24,347	15,810	11	M10X70	60.0	7.436
PL3		AD	3.000	4.724		3.071	2.756	3.465	5,997	30,175	26,038	16,540	12	M10X70	60.0	8.300
PL3	3/8	AD	3.375	4.921		3.071	2.756	3.465	5,997	33,947	23,154	15,810	12	M10X70	60.0	8.016
PL3	7/16	AD	3.438	5.118		3.071	2.756	3.465	5,997	37,350	24,668	16,540	13	M10X70	60.0	8.991
PL3	1/2	AD	3.500	5.118	-0	3.071	2.756	3.465	5,997	38,029	24,227	16,540	13	M10X70	60.0	8.727
PL3	3/4	AD	3.750	5.305	+0.0021"	3.071	2.756	3.465	5,997	40,807	22,567	15,960	13	M10X70	60.0	8.888
PL3	15/16	AD	3.938	5.708	-0	3.937	3.543	4.409	10,474	58,307	22,768	15,670	12	M12X90	104.8	13.473
PL4		AD	4.000	5.843		3.937	3.543	4.409	10,474	59,233	22,412	15,310	12	M12X90	104.8	14.036
PL4	7/16	AD	4.438	6.496		3.937	3.543	4.409	10,474	82,449	25,324	17,260	15	M12X90	104.8	17.750
PL4	1/2	AD	4.500	6.496		3.937	3.543	4.409	10,474	83,610	24,972	17,260	15	M12X90	104.8	17.313
PL4	15/16	AD	4.938	7.087		4.567	4.094	5.118	16,596	107,604	23,003	16,100	13	M14X90	166.1	19.936
PL5		AD	5.000	7.087		4.567	4.094	5.118	16,596	108,966	22,715	16,100	13	M14X90	166.1	19.374
PL5	1/2	AD	5.500	7.492	+0.0025"	4.567	4.094	5.118	16,596	138,083	23,837	17,550	15	M14X90	166.1	19.198
PL6		AD	6.000	8.268	-0	4.567	4.094	5.118	16,596	170,783	24,820	17,840	17	M14X90	166.1	24.651
PL6	1/2	AD	6.500	8.858		5.748	5.276	6.378	25,668	226,478	21,804	15,960	15	M16X120	256.8	41.804
PL7		AD	7.000	9.252		5.748	5.276	6.378	25,668	260,773	21,584	16,390	16	M16X120	256.8	42.072
PL7	1/2	AD	7.500	9.823		5.748	5.276	6.378	25,668	295,576	21,409	16,390	17	M16X120	256.8	46.844
PL7	7/8	AD	7.875	10.235		5.748	5.276	6.378	25,668	310,239	20,303	15,670	17	M16X120	256.8	49.401
PL8		AD	8.000	10.504		5.748	5.276	6.378	25,668	315,163	19,986	14,670	17	M16X120	256.8	51.040
PL8	1/2	AD	8.500	11.220	+0.0028"	5.748	5.276	6.378	25,668	395,097	22,169	17,120	20	M16X120	256.8	61.815
PL9		AD	9.000	11.669	-0	5.748	5.276	6.378	25,668	418,338	20,937	16,460	20	M16X120	256.8	69.300
PL9	1/2	AD	9.500	12.154		5.748	5.276	6.378	25,668	441,579	19,835	15,800	20	M16X120	256.8	71.280
PL10		AD	10.000	12.795		5.748	5.276	6.378	25,668	511,517	16,925	13,200	22	M16X120	256.8	73.577
PL10	1/2	AD	10.500	13.319		5.748	5.276	6.378	25,668	537,093	16,119	13,740	22	M16X120	256.8	78.760
PL11		AD	11.000	14.000	+0.0032"	6.969	6.496	7.756	49,862	799,084	21,802	17,120	20	M20X150	498.9	103.674
PL11	13/16	AD	11.813	14.762	-0	6.969	6.496	7.756	49,862	943,918	22,333	17,840	22	M20X150	498.9	109.211

Note: Min. Hub Dia. (D_n) calculated based upon the Formula (3) at (K) = 0.6. Refer to page D-29.

