

LP5

WITH CLAMPING HUB; SINGLE OR DUAL FLEX 350 – 50,000 Nm

S = single flex design



NEW

D = dual flex design



NEW

PROPERTIES

FEATURES

- easy installation
- keyway optional
- compensates for axial and angular misalignment only

MATERIAL

- **disc pack:** highly elastic spring steel
- **hubs:** high strength steel

DESIGN

Two precision machined split clamping hubs mounted to the disc pack by means of high strength screws and bushings for alignment and frictional clamping of the assembly.

From series 25,000 assembly screws/superbolts must be used.

PROPERTIES

FEATURES

- easy installation
- keyway optional
- compensates for axial, angular and lateral misalignment

MATERIAL

- **disc packs:** highly elastic spring steel
- **hubs and spacer:** high strength steel

DESIGN

Two precision machined split clamping hubs and spacer plate mounted to the disc packs by means of high strength screws and bushings for alignment and frictional clamping of the assembly.

MODEL LP5 S|D | SIZE 300 – 2600

SIZE			300		500		700		1100		1600		2600	
Type			S	D	S	D	S	D	S	D	S	D	S	D
Rated torque*	(Nm)	T _{KN}	350		500		700		1,100		1,600		2,600	
Maximum torque*	(Nm)	T _{KNmax}	700		1,000		1,400		2,200		3,200		5,200	
Overall length	(mm)	A	95	123	113	141	134	172	151	192	178	224	189	236
Outside diameter	(mm)	Ø AD	99		109		128		133		150		168	
Hub diameter	(mm)	Ø B	72		80		89		95		103		122	
Hub fit length	(mm)	C	45		54		64		72		85		90	
Bore diameter available from Ø to Ø H7	(mm)	D _{1/2}	18 – 48		23 – 50		25 – 58		25 – 60		28 – 64		31 – 75	
Assembly screw (ISO 4017) Tensioning nut (DIN 4032)		E	M8		M8		M10		M10		M12		M12	
Tightening torque	(Nm)		35		40		65		95		150		165	
Distance between hubs	(mm)	G	–	33	–	33	–	44	–	48	–	54	–	56
Assembly length	(mm)	G ₁	63	50.3	72	50.3	84	61.4	96.8	66.4	114.2	77.5	119	77.5
Clamping screw (ISO 4762)		H	4 x M6		4 x M8		4 x M8		4 x M10		4 x M12		4 x M14	
Tightening torque	(Nm)		18		34		39		73		120		192	
Moment of inertia**	(10 ⁻³ kgm ²)	J _{res.}	2	3	4	5	8	11	11	15	20	27	38	50
Weight**	(kg)		1.9	2.7	3	3.9	4.8	6.0	5.5	7.4	8.4	10.8	12.0	15.1
Torsional stiffness disc packs	(kNm/rad)	C _T	200	100	280	140	470	235	540	270	800	400	1,200	600
Axial ±	(mm)	max. values	0.5	1.0	0.6	1.0	0.7	1.5	0.8	1.5	1.0	2.0	1.1	2.0
Lateral ±	(mm)		–	0.2	–	0.2	–	0.3	–	0.3	–	0.4	–	0.4
Angular ±	(degree)		0.7	1.4	0.7	1.4	0.7	1.4	0.7	1.4	0.7	1.4	0.7	1.4
Max. speed	(min ⁻¹)		5,800		5,200		4,500		4,300		3,850		3,500	
Max. speed (balanced)***	(min ⁻¹)		13,500		12,300		10,500		10,000		8,950		8,000	

* maximum transmittable torque depends on the bore diameter | ** at maximum bore diameter | *** higher speeds on request

SIZE	Ø18	Ø20	Ø23	Ø25	Ø30	Ø35	Ø40	Ø45	Ø50	Ø55	Ø60	Ø70	Ø80	Ø90	Ø100	Ø120	Ø140	Ø150	Ø160
300	170	190	220	240	290	340	390	430											
500			310	330	400	470	530	600	650										
700				390	470	550	630	710	790	870									
1100				590	710	830	950	1070	1190	1300	1430								
1600					980	1150	1310	1470	1640	1800	1970								
2600						1580	1800	2030	2250	2480	2700	3160							
4000							2300	2600	2800	3100	3400	4000	4600	5200					
6000							3200	3600	4100	4500	4900	5700	6500	7300					
8000									5100	8600	6100	7100	8100	9200	10200				
15000												9000	10000	11500	13000	15500	18000	19500	
25000															19000	23000	26500	28500	30500

Higher torque capacity possible with keyway or spline on request.

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* maximum transmittable torque depends on the bore diameter | ** at maximum bore diameter | *** higher speeds on request

ORDERING EXAMPLE	LP5	700	S	133	25.4	40	XX
Model	●						Special designation only (e.g. special bore diameter tolerances, balancing, etc.). Contact R+W for more information.
Size		●					
Type (S or D)			●				
Overall length (mm)				●			
Bore diameter Ø D1 H7					●		
Bore diameter Ø D2 H7						●	
For custom features place an XX at the end of the part number and describe the special requirements (e.g. LP5 / 700 / S / 133 / 25.4 / 40 / XX - balanced to 10,000 rpm)							