LPH

WITH FULLY SPLIT CLAMPING HUB

350 – 5,200 Nm

NEW

PROPERTIES

FEATURES

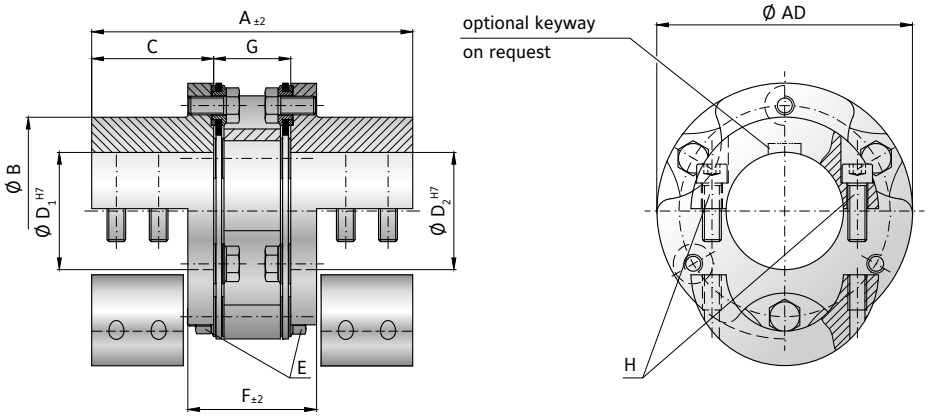
- lateral mounting between shafts
- easy installation and removal
- dual flex design

MATERIAL

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

DESIGN

Two precision machined fully split clamping hubs and spacer plate 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.



MODEL LPH D | SIZE 300 – 2600

SIZE			300	500	700	1100	1600	2600
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	123	141	172	192	224	236
Outside diameter	(mm)	ø AD	99	109	128	133	150	168
Hub diameter	(mm)	ø B	72	80	89	95	100	116.5
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 Tensioning nut	(ISO 4017) (DIN 4032)	E	M8	M8	M10	M10	M12	M12
Tightening torque	(Nm)		35	40	65	95	150	165
Length of center section	(mm)	F	62	66	74	80	96	98
Distance between hubs	(mm)	G	33	33	44	48	54	56
Clamping screw	(ISO 4762)	H	8 x M6	8 x M8	8 x M8	8 x M10	8 x M10	8 x M12
Tightening torque	(Nm)		16	28	34	63	86	143
Moment of inertia**	(10^{-3}kgm²)	$J_{ges.}$	3	5	11	15	26	46
Weight**	(kg)		2.7	3.9	5.9	7.4	10.3	14
Torsional stiffness disc packs	(kNm/rad)	C_T	100	140	235	270	400	600
Axial ±	(mm)	max. values	1.0	1.0	1.5	1.5	2.0	2.0
Lateral ±	(mm)		0.2	0.2	0.3	0.3	0.4	0.4
Angular ±	(degree)		1.4	1.4	1.4	1.4	1.4	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	180	200	230	250	300	350	400	450											
500			300	330	400	460	525	590	650										
700				400	480	560	640	720	800	880									
1100				590	710	830	950	1070	1190	1310	1430								
1600					970	1140	1300	1460	1630	1790	1950								
2600						1580	1810	2040	2260	2490	2700	3150							
4000							2300	2600	2900	3200	3500	4000	4600	5200					
6000							3200	3700	4100	4500	4900	5700	6500	7400					
8000									5000	5600	6100	7100	8100	9100	10000				
15000												9000	10000	11500	13000	15500	18000	19500	
25000															19000	23000	26500	28500	30500

Higher torque capacity possible with keyway or spline on request.

LPH

WITH FULLY SPLIT CLAMPING HUB

4,000 - 50,000 Nm

NEW

PROPERTIES

FEATURES

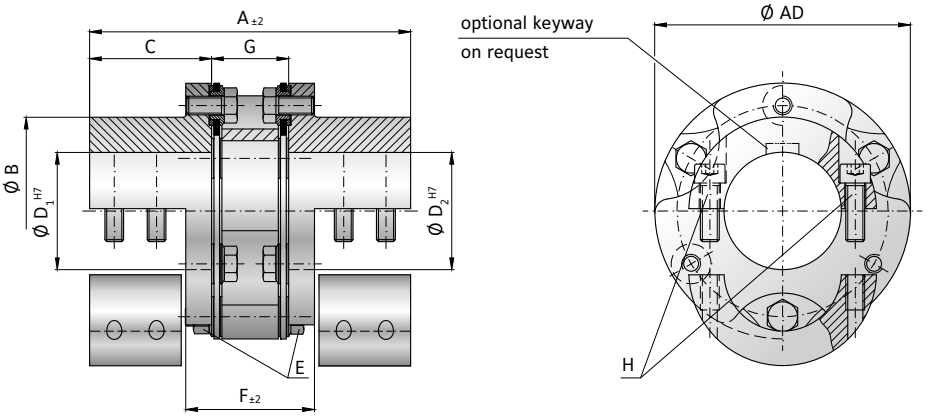
- lateral mounting between shafts
- easy installation and removal
- dual flex design

MATERIAL

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

DESIGN

Two precision machined fully split clamping hubs and spacer plate 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.



MODEL LPH D | SIZE 4000 - 25000

SIZE			4000	6000	8000	15000	25000
Rated torque*	(Nm)	T_{KN}	4,000	6,000	8,000	15,000	25,000
Maximum torque*	(Nm)	T_{KNmax}	8,000	12,000	16,000	30,000	50,000
Overall length	(mm)	A	274	302	349	396.4	468.4
Outside diameter	(mm)	ø AD	198	212	238	272	300
Hub diameter	(mm)	ø B	137	149	168	182	189
Hub fit length	(mm)	C	102	112	126	155	165
Bore diameter available from Ø to Ø H7	(mm)	$D_{1/2}$	38 - 90	39 - 95	50 - 102	70 - 120	90 - 135
Assembly screw Tensioning nut	(ISO 4017) (DIN 4032)	E	M16	M16	M20	M20	M24
Tightening torque	(Nm)		360	400	755	770	47
Length of center section	(mm)	F	124	132	163	166.4	244.4
Distance between hubs	(mm)	G	70	78	97	86.4	138.4
Clamping screw	(ISO 4762)	H	8 x M14	8 x M16	8 x M20	8 x M18	12 x M16
Tightening torque	(Nm)		215	342	530	500	390
Moment of inertia**	(10^{-3}kgm²)	$J_{ges,}$	103	146	287	526	894
Weight**	(kg)		22.5	28.5	44.2	62.2	84.8
Torsional stiffness disc packs	(kNm/rad)	C_T	1,000	1,250	1,800	3,850	8,000
Axial ±	(mm)	max. values	2.5	2.5	2.5	3.0	4.0
Lateral ±	(mm)		0.5	0.5	0.6	0.7	0.8
Angular ±	(degree)		1.4	1.4	1.4	1.4	1.4
Max, speed	(min^{-1})		2,900	2,700	2,400	2,100	1,900
Max, speed (balanced)***	(min^{-1})		6,700	6,300	5,600	4,900	4,500

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

ORDERING EXAMPLE	LPH	700	D	172	25.4	40	XX
Model	●						Special designation only (e.g. special bore diameter tolerances, balancing, etc.). Contact R+W for more information.
Size		●					
Type (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. LPH / 700 / D / 172 / 25.4 / 40 / XX - balanced to 8,000 rpm)