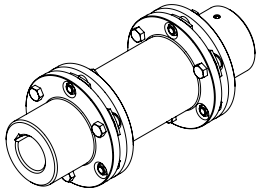
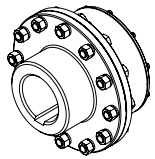
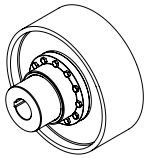


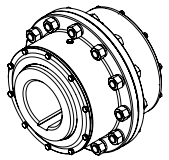
- **A6–1** GENERAL INFORMATION
- **A6–4** **AMB** STEEL MEMBRANE COUPLINGS



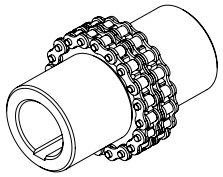
- **A6–7** **SPJ** SINGLE SIDED GEAR COUPLINGS
- **A6–8** **SPJ (series ESCO)** SINGLE SIDED GEAR COUPLINGS



- **A6–9** **SPJ-SBH (series ESCO)** BRAKE DRUM GEAR COUPLINGS



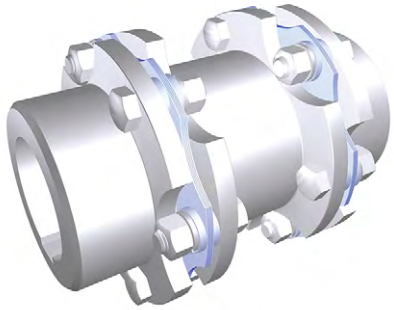
- **A6–10** **SPD** DOUBLE SIDED GEAR COUPLINGS
- **A6–11** **SPD (series ESCO)** DOUBLE SIDED GEAR COUPLINGS



- **A6–13** **AFL** CHAIN COUPLINGS

Self-adjusting couplings are characterized by:

- ability to operate in high temperatures and in harmful environment (totally made of metal),
- transferring high torques with small dimensions and high rotational speed,
- compensation of deviations of joined shaft ends position,
- lack of torsional susceptibility (precision of positioning),
- service free (AMB),
- possibility of membrane replacement without the necessity of drawing the joined shaft ends aside (AMB).



APPLICATIONS: machinery for chemical, paper, steel, food and pumps industry, blowers, compressors, stirrers, conveyors, crushers, fans and other machinery and equipment.

MATERIAL: steel.

WORKING CONDITIONS: work at temperature: **AMB** up to 250°C, **SPD, SPJ** of -20°C up to +80°C.

OPERATION IN THE AREAS WITH THE DANGER OF EXPLOSIONS:
"Ex" couplings (see method of marking) are intended for operation in the areas with the danger of explosion (groups: I M2, II2D, II2G). couplings of this construction are made with set screws.

METHOD OF MARKING:

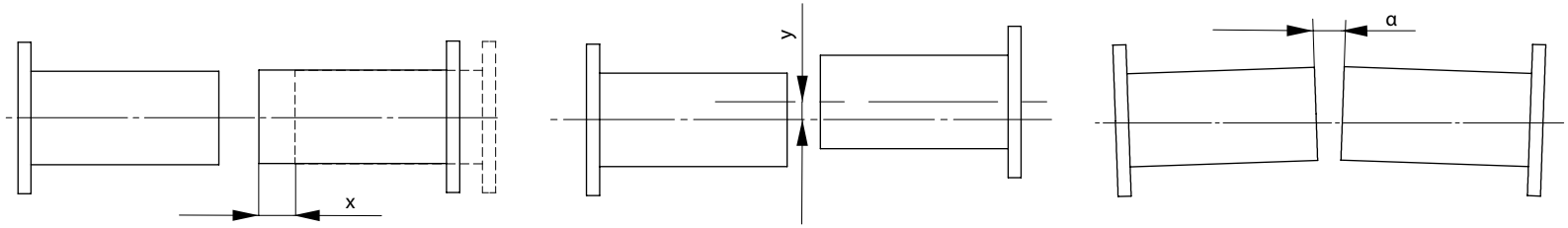
[**name**] – [**M_n**] – [**d_1**] / [**l_1**] – [**d_2**] / [**l_2**] – [**size**][**type**] – [**variant**] – [**version***]

* only when it concerns a given type, where:

name	e.g. steel membrane coupling
M_n	nominal torque [Nm]
d_1, d_2 (d_{11}, d_{12})	diameters of the holes [mm] (for the couplings with brake drum or disc d1 – transmission side) in the case of ordering the coupling without holes for shaft ends "0" should be placed; in the case of lead hole according to the catalogue – "ow" marking, and in the case of pilot bores other than in the catalogue, the diameter of the hole should be added after the "ow" marking (e.g. "ow25")
l_1, l_2	the length of the holes in the hubs [mm]
size	e.g. 75
type	e.g. AMB
variant	e.g. A
version	Ex – for operation in the areas with the danger of explosion WS… – special (individual arrangements)

BALANCING: couplings are normally balanced statically (some sizes of the couplings with bigger brake drums or discs are normally balanced dynamically-check remarks in the catalogue). After the arrangement there is a possibility of dynamic balancing of each coupling.

MAXIMUM DEVIATIONS: Given values of maximum deviations ("x" – axial, "y" – radial, „α" – angular) cannot appear at the same time.



Type	AMB – variant A															
Coupling size	120	125	135	138	142	150	160	170	180	185	190	205	215	235	236	256
x [mm]	0,6	0,8	1	1,2	1,4	1,6	1	1,1	1,3	1,3	1	1,2	1,4	1,75	1,85	2,1
y [mm]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
α [°]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0,7	0,7

Type	AMB – variant B, C													
Coupling size	120	125	135	138	142	150	160	170	180	185	190	205	215	235
x [mm]	1,2	1,6	2,0	2,4	2,8	3,2	2,0	2,2	2,6	2,6	2,0	2,4	2,8	3,5
y [mm]	0,2	0,2	0,3	0,3	0,4	0,4	0,8	0,4	1,2	1,2	1,1	1,4	1,5	0
α [°]	2	2	2	2	2	2	2	2	2	2	2	2	2	2

The recommended deviation values should be up to 50% of the maximum deviation value.

AFL			
Coupling size	Angular deviation α [°]	Axial deviation x [mm]	Radial deviation y [mm]
80	0,5	0,5	0,2
105			
125			
150		1	0,3
180			
210			
230		2	0,5
250			
300			
320		3	0,6
350			
370			
400		4	0,8
500			
600			

Type	SPJ								
Coupling size	001	002	003	004	005	006	007	008	009
x [mm]	1	1	1	2	2	2	3	3	3
y [mm]	0	0	0	0	0	0	0	0	0
α [°] revolutions [1/min]									
0–500	0,5								
500–1000	0,3								
1000–2000	0,2								
2000–3000	0,1								

Type	SPD								
Coupling size	001	002	003	004	005	006	007	008	009
x [mm]	2	2	2	4	4	4	6	6	6
y [mm] revolutions [1/min]									
0–500	0,5	0,7	0,9	1,2	1,3	1,5	1,8	2,1	2,4
500–1000	0,3	0,4	0,5	0,7	0,8	0,9	1,1	1,3	1,4
1000–2000	0,2	0,3	0,4	0,5	0,5	0,6	0,7	0,8	1,0
2000–3000	0,1	0,1	0,2	0,2	0,3	–	–	–	–
α [°] revolutions [1/min]									
0–500	1								
500–1000	0,6								
1000–2000	0,4								
2000–3000	0,2								

Recommended deviation values for couplings SPD (series E), SPJ (series E) and SPJ-SBH (series E): up to 30% of the value of the maximum deviation.

Angular deviation α [°]	Coupling size SPJ (series E)
0,75	45
0,75	60
0,75	75
0,75	95
0,75	110
0,75	130
0,75	155
0,75	175
0,75	195
0,75	215
0,75	240
0,75	275
0,75	280
0,75	320
0,75	360N
0,75	400N
0,75	450N
0,75	500
0,75	530
0,75	560
0,75	600
0,75	660
0,75	730
0,75	830
0,75	900
0,75	1000
0,75	1060
0,75	1130

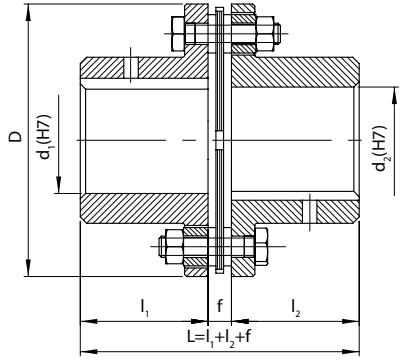
Radial deviation y [mm]	Angular deviation α [°]	Coupling size SPD (series E)
0,35	1,5	45
0,4	1,5	60
0,5	1,5	75
0,6	1,5	95
0,7	1,5	110
0,9	1,5	130
1,0	1,5	155
1,1	1,5	175
1,2	1,5	195
1,4	1,5	215
1,5	1,5	240
1,7	1,5	275
2,0	1,5	280
2,1	1,5	320
2,3	1,5	360N
2,5	1,5	400N
2,7	1,5	450N
2,8	1,5	500
3,0	1,5	530
3,2	1,5	560
3,4	1,5	600
3,6	1,5	660
3,7	1,5	730
4,0	1,5	830
4,4	1,5	900
4,8	1,5	1000
5,2	1,5	1060
5,4	1,5	1130

Example of designation of the AMB type coupling with the nominal torque of M_n=60 Nm, hub hole diameters of d_1=28 mm, d_2=35 mm, hub hole lengths of l_1=30 mm, l_2=40 mm, size of 135 in the A version: *(marking see page A6-1)*:

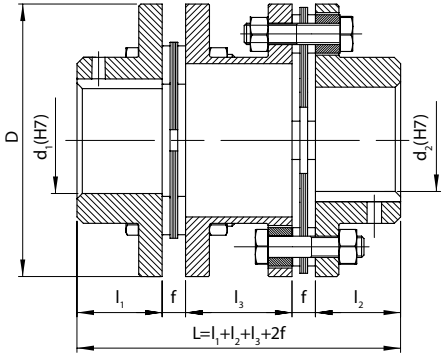
60-28/30-35/40-135 AMB-A Steel membrane coupling

- with pilot bores – 60-**ow**/30-**ow**/40-135 AMB-A Steel membrane coupling

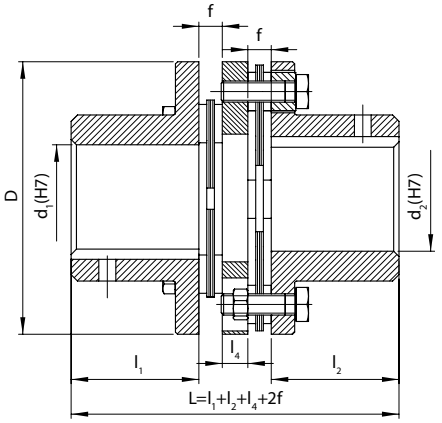
variant A



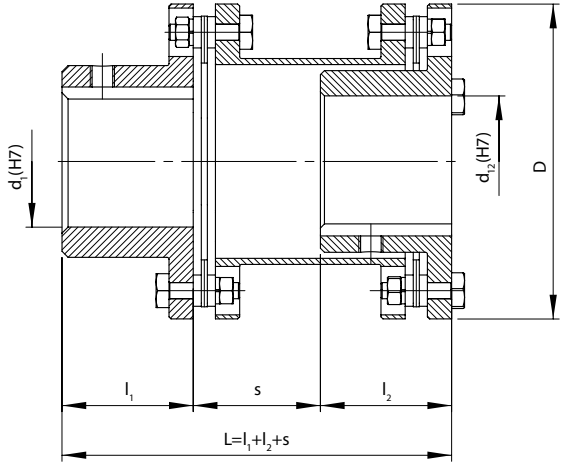
variant B



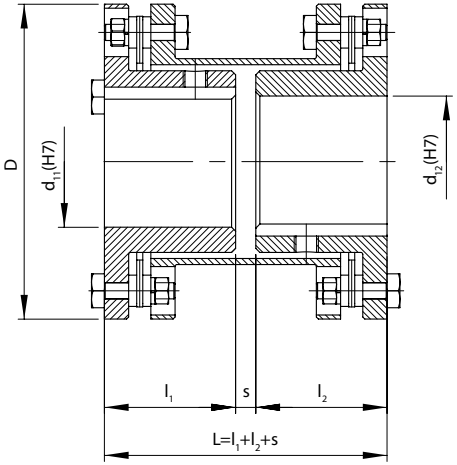
variant C



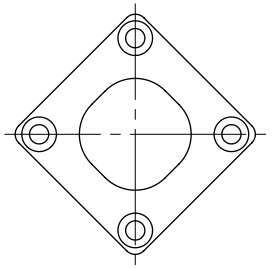
variant By



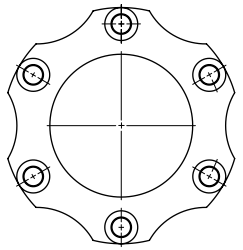
variant Bz



membrane package 120÷150 AMB



membrane package 160÷256 AMB



Nominal torque M_n	d_1, d_2		d_{11}, d_{12}	l_1, l_2 [1]	l_3 [1]	l_4 [1]	f	s	D	Max rotational speed n_{max}	Moment of inertia [2] I	Weight [2] m	Coupling size and type	Variant
	pilot	max	max	nomin.										
Nm	mm									1/min	kgm²	kg	–	–
15	4	20	–	20	–	–	5	–	56	20000	0,00011	0,3	120 AMB	A
			–		50	–		–			0,000204	0,6		B
			–		–	8		–			0,000166	0,4		C
30	4	25	–	25	–	–	6	–	68	16000	0,00028	0,6	125 AMB	A
			–		48	–		–			0,000522	0,9		B
			–		–	8		–			0,000414	1,6		C
60	6	35	–	40	–	–	6	–	82	13000	0,00094	1,2	135 AMB	A
			–		58	–		–			0,00158	1,9		B
			–		–	10		–			0,00129	1,6		C
120	6	38	–	45	–	–	8	–	94	12000	0,0017	1,8	138 AMB	A
			–		64	–		–			0,00303	2,8		B
			–		–	12		–			0,00247	2,4		C
180	6	42	–	45	–	–	10	–	104	10000	0,0029	2,4	142 AMB	A
			–		60	–		–			0,00482	3,6		B
			–		–	14		–			0,00409	3,1		C
330	8	50	–	55	–	–	11	–	126	8000	0,0068	4,0	150 AMB	A
			–		74	–		–			0,0118	6,2		B
			–		–	12		–			0,00932	5,1		C
690	8	60	–	55	–	–	11	–	138	6700	0,0087	4,2	160 AMB	A
			–		74	–		–			0,0141	6,0		B
			–		–	12		–			0,0120	5,3		C
			55		–	–	–	50			0,0141	6,0		By
					–	–	–	4						Bz
1100	8	70	–	65	–	–	11	–	156	5900	0,016	6,0	170 AMB	A
			–		94	–		–			0,0253	8,6		B
			–		–	14		–			0,0214	7,5		C
			65		–	–	–	60			0,0253	8,6		By
					–	–	–	4						Bz

The table continues on the next page

◀ *Continuation of the table from the previous page*

Nominal torque M_n	d_1, d_2		d_{11}, d_{12}	l_1, l_2 [1]	l_3 [1]	l_4 [1]	f	s	D	Max rotational speed n_{max}	Moment of inertia [2] I	Weight [2] m	Coupling size and type	Variant
	pilot	max	max	nomin.										
Nm	mm									1/min	kgm²	kg	–	–
1500	10	80	–	75	–	–	14	–	179	5100	0,031	9,0	180 AMB	A
			–		108	–		–			0,0476	12,6		B
			75		–	–	–	70						By
					–	–	–	4						Bz
2400	10	85	–	80	–	–	15	–	191	4750	0,046	11,2	185 AMB	A
			–		110	–		–			0,0734	16,2		B
			80		–	–	–	72			0,0734	16,2		By
					–	–	–	4						Bz
4500	10	90	–	80	–	–	15	–	210	4300	0,073	14,7	190 AMB	A
			–		110	–		–			0,121	22,0		B
			85		–	–	-	73			0,121	22,0		By
					–	–	-	6						Bz
5100	12	105	–	90	–	–	20	–	225	4000	0,101	17,4	205 AMB	A
			–		120	–		–			0,165	25,8		B
			90		–	–	–	83			0,165	25,8		By
					–	–	–	6						Bz
9000	12	115	–	100	–	–	23	–	265	3400	0,223	27,9	215 AMB	A
			–		124	–		–			0,381	42,8		B
			100		–	–	–	88			0,381	42,8		By
					–	–	–	6						Bz
12 000	12	135	–	135	–	–	27	–	305	3000	0,478	45,1	235 AMB	A
			–		196	–		–			0,835	71,3		B
17 500	12	135	–	135	–	–	23	–	300	3800	0,419	41,4	236 AMB	A
25 000	14	150	-	150	-	-	27	-	325	3500	0,634	52,2	256 AMB	A

We produce keyways as recommended, normally acc. to PN-70/M-85005, with the Js9 tolerance.

[1] On request, we produce couplings with the lengths of hubs or intermediate elements different from the nominal lengths given in the table.

[2] The weight and the moment of inertia have been determined for the coupling with the maximum holes and nominal lengths of the hubs.

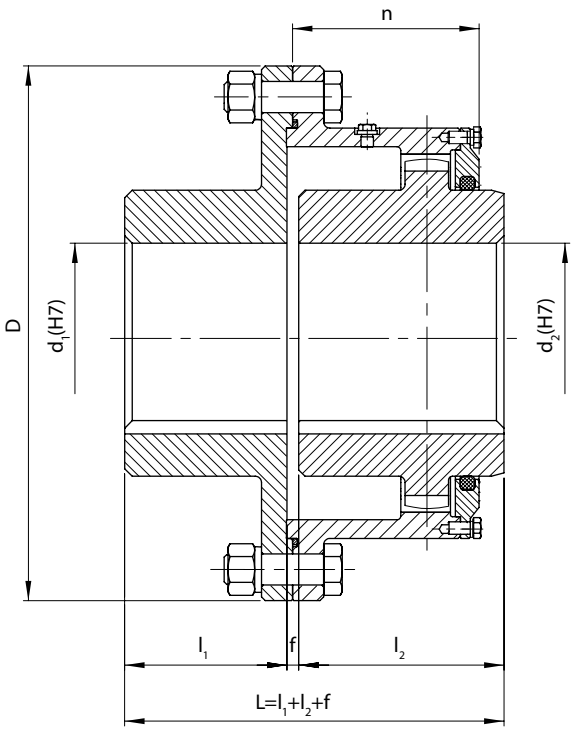
Example of designation of the SPJ coupling with the nominal torque of M_n=3150 Nm, hub hole diameters of d_1=50 mm, d_2=60 mm, hub hole lengths of l_1=80 mm, l_2=140 mm, size of 003 *(marking see page A6-1)*:

3150-50/80-60/140-003 SPJ Single-sided gear coupling

- with pilot bores – 3150-**ow**/80-**ow**/140-003 SPJ Single-sided gear coupling

Single-sided gear couplings are used in pairs with a spacer shaft. In cases where journal misalignment is excluded, a single SPJ coupling may be used.

Screw-tightened covers are used from sizes 005 to 009.
Sizes 004 and smaller are manufactured with non-removable covers.



We produce keyways as recommended, normally acc. to PN-70/M-85005, with the Js9 tolerance.

1) On request, we produce couplings with the lengths of hubs different from the nominal and extended lengths given in the table.

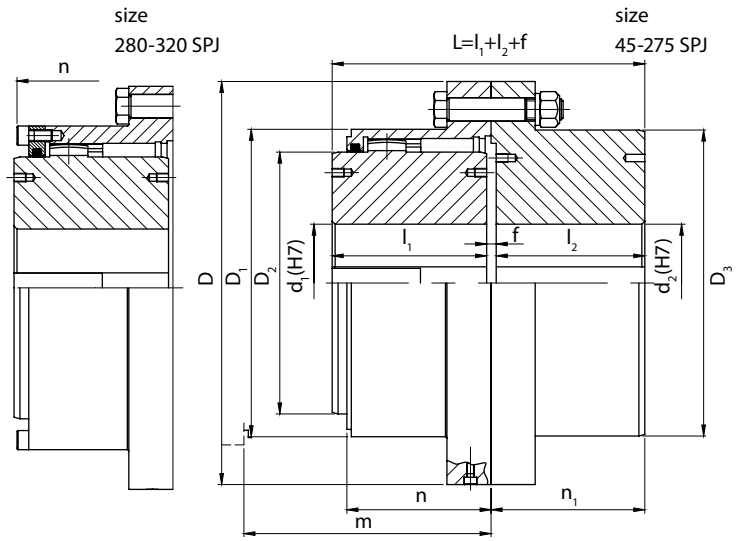
2) The weight and the moment of inertia have been determined for the coupling with the maximum holes and nominal lengths of the hubs.

Nominal torque M_n	d_1, d_2		l_1, l_2 1)		f	D	n	Max rotational speed n_{max}	Moment of inertia 2) I	Weight 2) m	Coupling size and type
	pilot	max	nomin.	extend.							
Nm	mm							1/min	kgm²	kg	–
710	20	40	50	110	5	160	47	3000	0,03	7,2	001 SPJ
1400	30	50	80	110	5	185	62		0,052	13,3	002 SPJ
3150	45	65	80	140	5	220	77		0,105	23,6	003 SPJ
5600	50	80	110	170	5	250	98		0,212	37,6	004 SPJ
11 800	65	100	120	210	10	330	115	2500	0,70	76,0	005 SPJ
19 000	80	125	140	210	10	360	130	1500	1,15	108,3	006 SPJ
30 000	100	160	170	300	10	430	150		3,55	167,7	007 SPJ
50 000	120	190	170	350	10	500	162,5	1600	7,10	250,1	008 SPJ
71 000	140	220	200	350	10	550	182,5	1250	13,7	336,5	009 SPJ

Example of designation of the SPJ coupling with the nominal torque of M_n=22000 Nm, hub hole diameters of d_1=60 mm, d_2=80 mm, hub hole lengths of l_1=105 mm, l_2=105 mm, size of 130 *(marking see page A6-1)*:

22000-60/105-80/105-130 SPJ Single-sided gear coupling

Single-sided gear couplings are used in pairs with a spacer shaft.
In cases where journal misalignment is excluded, a single SPJ coupling may be used.



We also offer special designs according to the individual wishes of the customer.

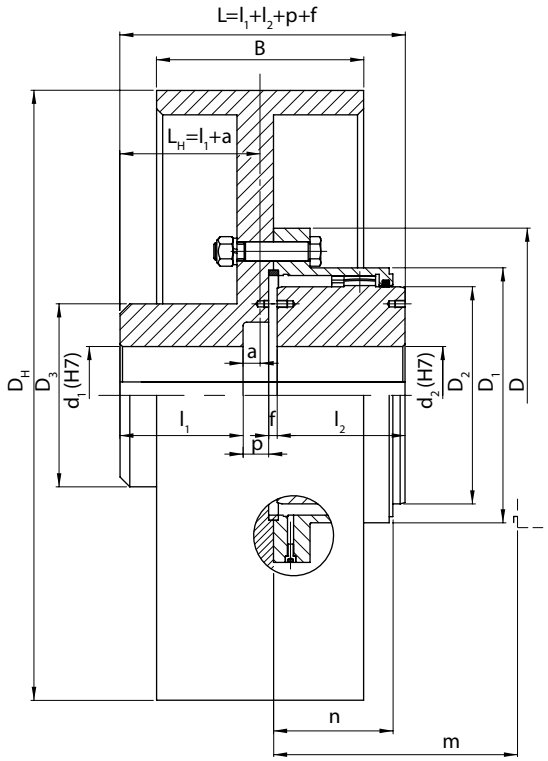
We produce keyways as recommended, normally acc. to PN-70/M-85005, with the Js9 tolerance.

1) Dimension which defines the offset of the cage in order to check the position of the hubs and the state of meshing.
2) Higher rotational speeds are possible after consultation.
3) The moment of inertia have been determined for the coupling with no holes.
4) The weight have been determined for the coupling with the pilot bores.
5) On request, we produce couplings with the lengths of hubs different from the nominal (l_2) lengths given in the table.
6) Check whether the journal/hub connection will transfer the required torque.

Nominal torque M_n 6)	d_1, d_2	l_1		l_2 5)	f	D	D_1	D_2	D_3	n	n_1	m 1)		Max rotational speed 2)	Moment of inertia 3)	Weight 4)	Coupling size and type
	max	nomin.	extend.	nomin.								nomin.	extend.	n_{max}	I	m	
Nm	mm													1/min	kgm²	kg	–
1300	45	43	80	40	5	111	80	67	80	41	43,5	73,5	81,5	5000	0,005	4,1	45 SPJ
2800	60	50	114	47	5	141	103,5	87	103,5	47	50,5	83	115,5	4400	0,016	8,2	60 SPJ
5000	75	62	130	58	5	171	129,5	106	126	58,5	61,5	106	131,5	4000	0,04	14,6	75 SPJ
10 000	95	76	146	74	6	210	156	130	152	68,5	77,5	124,5	148,5	3600	0,107	26,5	95 SPJ
16 000	110	90	165	87	6	234	181	151	178	82	90,5	147,5	167,5	3350	0,197	39,6	110 SPJ
22 000	130	105	170	101	6,5	274	209	178	208	98	104,5	175	175	3100	0,446	60,3	130 SPJ
32 000	155	120	190	113	6,5	312	247	213	245	108,5	116,5	196	196	2800	0,868	90,3	155 SPJ
45 000	175	135	200	129	8	337	273	235	270	121	133	220	220	2700	1,362	119	175 SPJ
62 000	195	150	220	150	8	380	307	263	305	132	154	242	242	2550	2,584	174,3	195 SPJ
84 000	215	175	250	175	8	405	338	286	330	151,5	179	281	281	2450	3,9	231,1	215 SPJ
115 000	240	190	280	190	10	444	368	316	362	165	196	308	308	2300	5,65	285,2	240 SPJ
174 000	275	220	350	220	13	506	426	372	416	183,5	228	344	355	2150	11,446	429,3	275 SPJ
244 000	280	280	410	280	13	591	472	394	–	225	288	316	447,5	1900	22,6	648	280 SPJ
290 000	320	292	470	292	14,5	640	518	432	–	234	300	330	467,5	1800	34,5	822	320 SPJ

Example of designation of the SPJ-SBH coupling with the nominal torque of M_n=1300 Nm, brake drum diameter of D_H=200 mm, distance of the brake drum symmetry axis from the hub origin of L_H=87, hub holes diameters of d_1=40 mm, d_2=45 mm, hub holes lengths of l_1=62 mm, l_2=82 mm, size of 45 *(marking see page A6-1)*:
1300-200-87-40/62-45/82-45 SPJ-SBH Brake drum gear coupling

Single-sided gear couplings are used in pairs with a spacer shaft.
In cases where journal misalignment is excluded, a single SPJ (SPJ-SBH) coupling may be used.



We also offer special designs according to the individual wishes of the customer.
We produce keyways as recommended, normally acc. to PN-70/M-85005, with the Js9 tolerance.

1) Dimension which defines the offset of the cage in order to check the position of the hubs and the state of meshing.
2) The moment of inertia have been determined for the coupling with no holes.
3) The weight have been determined for the coupling with the pilot bores.
4) On request, we produce couplings with the brake drums size different than in the table.

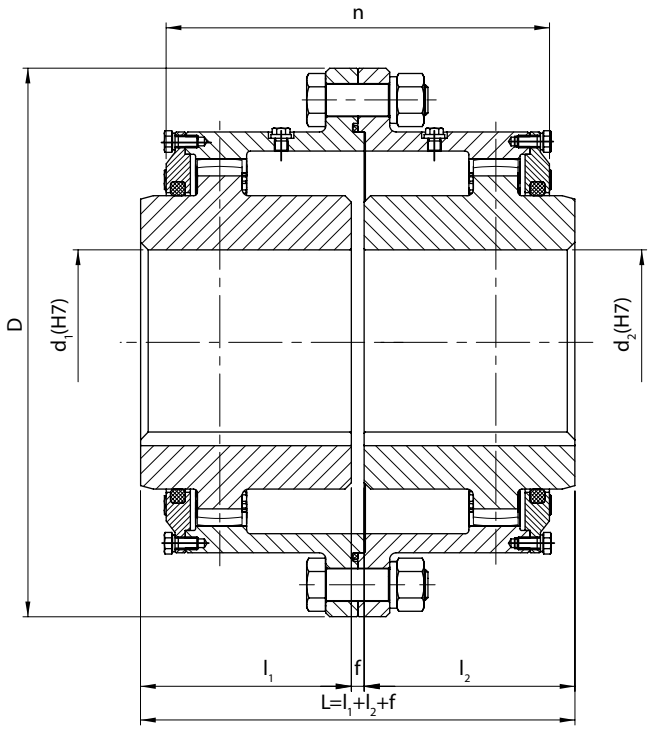
Nominal torque M_n	d_1, d_2	l_1		l_2		p	f	D	D_1	D_2	D_3	D_H 4)	B 4)	a	n	m 1)		Max rotational speed n_{max}	Moment of inertia 2) I	Weight 3) m	Coupling size and type
	max	nomin.	extend.	nomin.	extend.											nomin.	extend.				
Nm	mm																	1/min	kgm²	kg	–
1300	45	62	82	43	80	31	5	111	80	67	80	200	75	25	41	73,5	81,5	3000	0,0585	13,1	45 SPJ-SBH
		82	112			28	5				75	250	90	23					0,1525	17,1	
2800	60	82	112	50	114	31	5	141	103,5	87	90	250	90	25	47	83	115,5		0,1575	19,0	60 SPJ-SBH
		112	142			34	5				90	320	110						0,5275	38,0	
5000	75	112	142	62	130	34	5	171	129,5	106	112	320	110	23	58,5	106	131,5		0,5400	41,3	75 SPJ-SBH
		112	142			34	5				112	400	135						1,3300	62,3	
10000	95	142	172	76	146	33	6	210	156	130	142	400	135		68,5	124,5	148,5		1,3625	68,1	95 SPJ-SBH
		142	174			33	6				142	500	170						3,6525	118,1	

Example of designation of the SPD type coupling with the nominal torque of M_n=3150 Nm, hub hole diameters of d_1=50 mm, d_2=60mm, hub hole lengths of l_1=80 mm, l_2=140 mm, size of 003 *(marking see page A6-1)*:

3150-50/80-60/140-003 SPD Double-sided gear coupling

- with pilot bores – 3150-**ow**/80-**ow**/140-003 SPD Double-sided gear coupling

Screw-tightened covers are used from sizes 005 to 009.
Sizes 004 and smaller are manufactured with non-removable covers.



We produce keyways as recommended, normally acc. to PN-70/M-85005, with the Js9 tolerance.

1) On request, we produce couplings with the lengths of hubs different from the nominal and extended lengths given in the table.

2) The weight and the moment of inertia have been determined for the coupling with the maximum holes and nominal lengths of the hubs.

Nominal torque M_n	d_1, d_2		l_1, l_2 1)		f	D	n	Max rotational speed n_{max}	Moment of inertia 2) I	Weight 2) m	Coupling size and type
	pilot	max	min	extend.							
Nm	mm							1/min	kgm²	kg	–
710	20	40	50	110	5	160	94	3000	0,03	7,3	001 SPD
1400	30	50	80	110	5	185	124		0,052	14	002 SPD
3150	45	65	80	140	5	220	154		0,105	23	003 SPD
5600	50	80	110	170	5	250	196		0,212	37,7	004 SPD
11 800	65	100	120	210	10	330	230	2500	0,70	78,8	005 SPD
19 000	80	125	140	210	10	360	260	1500	1,15	102,6	006 SPD
30 000	100	160	170	300	10	430	300		3,55	165,3	007 SPD
50 000	120	190	170	350	10	500	325	1400	7,0	260,5	008 SPD
71 000	140	220	200	350	10	550	365	1250	13,75	360,0	009 SPD

Example of designation of the SPD type coupling with the nominal torque of M_n=22000 Nm, hub hole diameters of d_1=60 mm, d_2=80 mm, hub hole lengths of l_1=105 mm, l_2=105 mm, size of 130 *(marking see page A6-1)*:

22000-60/105-80/105-130 SPD Double-sided gear coupling

Nominal torque M_n [5]	d_1, d_2	l_1, l_2		f	D	D_1	D_2	n	m [1]		Max rotational speed [2]	Moment of inertia [3]	Weight [4]	Coupling size and type
	max	nomin.	extend.						nomin.	extend.	n_{max}	I	m	
Nm	mm										1/min	kgm²	kg	–
1300	45	43	80	3	111	80	67	41	73,5	81,5	5000	0,005	4,1	45 SPD
2800	60	50	114	3	141	103,5	87	47	83	115,5	4400	0,015	8,0	60 SPD
5000	75	62	130	3	171	129,5	106	58,5	106	131,5	4000	0,040	14,6	75 SPD
10 000	95	76	146	5	210	156	130	68,5	124,5	148,5	3600	0,105	26,1	95 SPD
16 000	110	90	165	5	234	181	151	82	147,5	167,5	3350	0,191	38,8	110 SPD
22 000	130	105	170	6	274	209	178	98	175	175	3100	0,430	59,2	130 SPD
32 000	155	120	190	6	312	247	213	108,5	196	196	2800	0,842	89,4	155 SPD
45 000	175	135	200	8	337	273	235	121	220	220	2700	1,320	117,5	175 SPD
62 000	195	150	220	8	380	307	263	132	242	242	2550	2,448	167,1	195 SPD
84 000	215	175	250	8	405	338	286	151,5	281	281	2450	3,716	222,4	215 SPD
115 000	240	190	280	8	444	368	316	165	308	308	2300	5,384	275,0	240 SPD
174 000	275	220	350	10	506	426	372	183,5	344	355	2150	10,872	413,6	275 SPD
244 000	280	280	410	10	591	472	394	225	316	447,5	1900	20,1	591	280 SPD
290 000	320	292	470	13	640	518	432	234	330	467,5	1800	31	760	320 SPD
370 000	360	305	–	13	684	562	480	251	352,5	–	1500	45	932	360N SPD
450 000	400	330	–	13	742	620	530	269	372,5	–	1400	68	1180	400N SPD
560 000	450	350	–	13	804	682	594	283	385	–	1300	105	1532	450N SPD
630 000	500	370	–	19	908	733	629	301	412,5	–	1150	164	1950	500 SPD
750 000	530	395	–	19	965	787	673	318	435	–	1050	228	2330	530 SPD
860 000	560	420	–	19	1029	841	724	333	450	–	900	313	2840	560 SPD
1 020 000	600	440	–	25	1092	892	772	361	495	–	800	430	3370	600 SPD
1 290 000	660	460	–	25	1200	997	870	375	510	–	550	685	4370	660 SPD
2 020 000	730	540	–	25	1330	1130	965	408	565	–	450	1161	6110	730 SPD
2 450 000	830	590	–	25	1440	1240	1062	448	605	–	380	1756	7810	830 SPD
3 070 000	900	630	–	25	1545	1345	1156	483	645	–	325	2580	9730	900 SPD
3 610 000	1000	670	–	25	1650	1450	1254	528	700	–	280	3690	11860	1000 SPD
4 390 000	1060	690	–	25	1750	1550	1346	538	710	–	240	5090	14220	1060 SPD
5 040 000	1130	700	–	25	1860	1660	1448	548	720	–	220	6730	16380	1130 SPD

Coupling size		45	60	75	95	110	130	155	175	195	215	240	275	280	320	360N	400N	450N
f	[mm]	3	3	3	5	5	6	6	8	8	8	8	10	10	13	13	13	13
f_1		12	9	17	17	19	23	24	29	32	39	46	43	30	33	48	53	61
f_2		21	15	31	29	33	40	42	50	56	70	84	76	50	53	83	93	109
a		55	59	79	93	109	128	144	164	182	214	236	263	310	325	353	383	411

We also offer special designs according to the individual wishes of the customer.

We produce keyways as recommended, normally acc. to PN-70/M-85005, with the Js9 tolerance.

[1] Dimension which defines the offset of the cage in order to check the position of the hubs and the state of meshing.

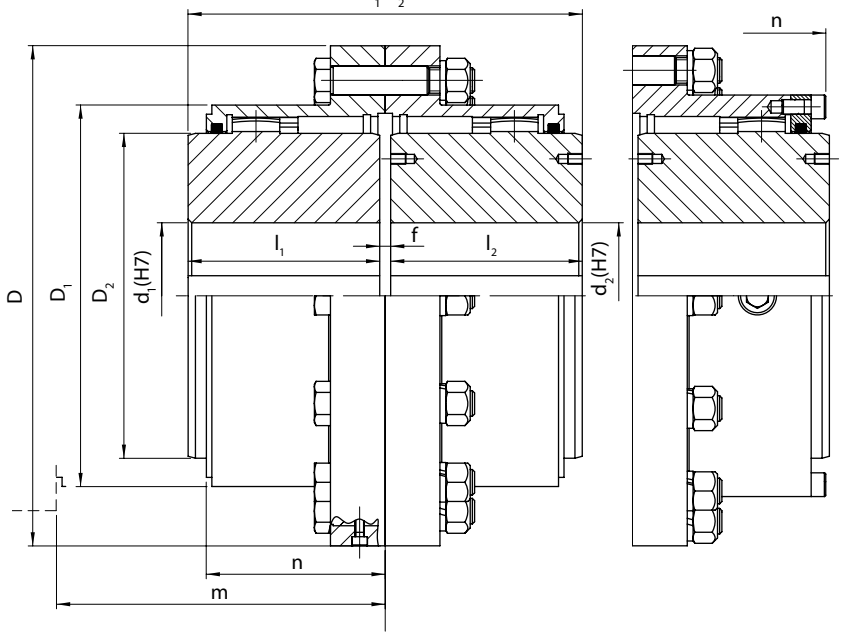
[2] Higher rotational speeds are possible after consultation.

[3] The moment of inertia have been determined for the coupling with no holes.

[4] The weight have been determined for the coupling with the pilot bores.

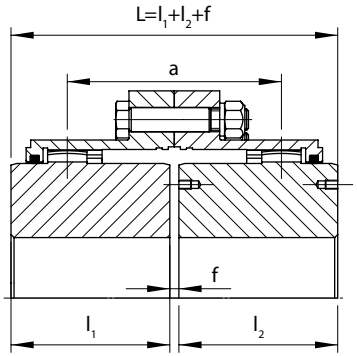
[5] Check whether the journal/hub connection will transfer the required torque.

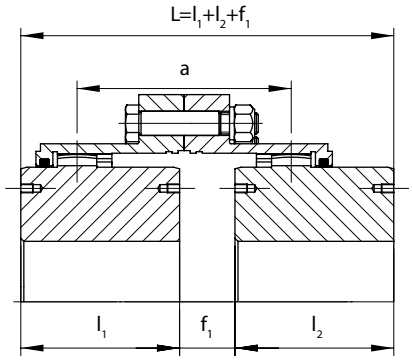
size
45-275 SPD

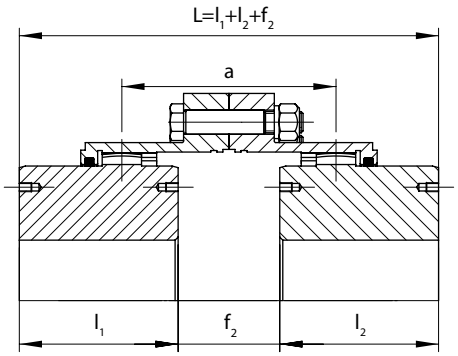


size
280-1130 SPD

Alignment of hubs with nominal lengths



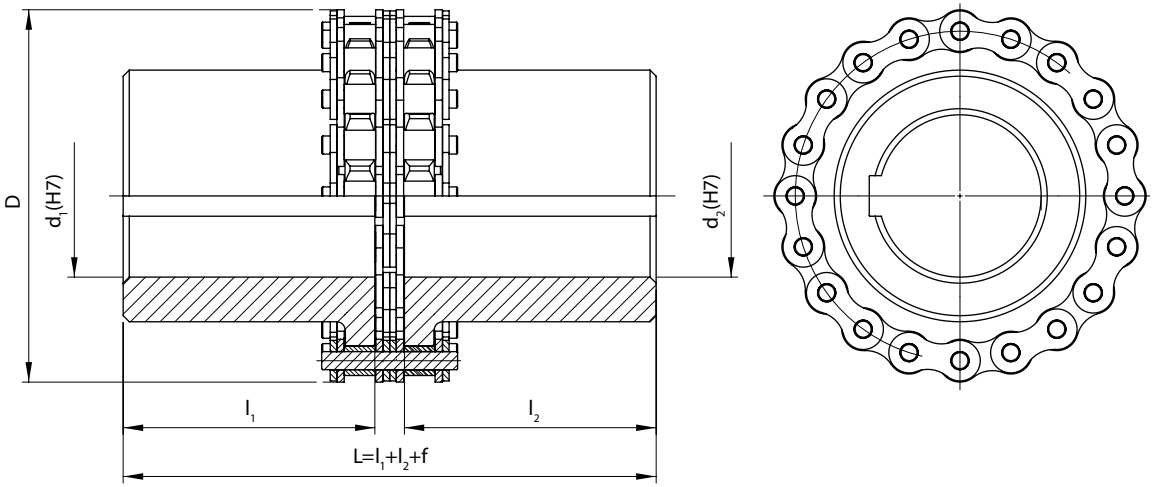




Example of designation of the AFL chain coupling with the nominal torque of M_n=11600 Nm, hub holes diameters of d_1=80 mm, d_2=100 mm, hub holes lengths of l_1=180 mm, l_2=180 mm, size of 250 *(marking see page A6-1)*:

11600-80/180-100/180-250 AFL Chain coupling

- the "WD" version – 11600-80/180-100/180-250 AFL-**WD** Chain coupling
- with pilot bores – 11600-**ow**/180-**ow**/180-250 AFL Chain coupling



Nominal torque M_n	d_1, d_2		l_1, l_2 [1]	f	D	Max rotational speed n_{max}	Weight [2] m	Coupling size and type
	pilot	max	nomin.					
Nm	mm					1/min	kg	–
390	10	30	60	6,7	77	5000	1,42	80 AFL
680	12	48	75	7,5	107	3600	3,36	105 AFL
1000	14	55	85	8,4	126	3000	5,62	125 AFL
1300	16	70	85	8,4	150	2500	8,60	150 AFL
3200	20	80	110	15,7	184	2000	17,1	180 AFL
5700	20	90	130	18	210	1800	26,1	210 AFL
6400	20	105	130	18	230	1800	32,3	230 AFL
11600	25	110	180	24,3	253	1500	47,0	250 AFL
14100	25	140	180	24,3	302	1200	74,0	300 AFL
18800	30	150	240	30,2	322	1200	103	320 AFL
20600	30	170	240	30,2	350	1000	126	350 AFL
26800	30	170	240	29,2	367	1000	137	370 AFL
29400	30	180	240	29,2	400	900	167	400 AFL
52300	40	220	280	36,1	500	750	288	500 AFL
98900	40	250	300	47,8	600	600	466	600 AFL

We also offer special designs according to the individual wishes of the customer.

We produce keyways as recommended, normally acc. to PN-70/M-85005, with the Js9 tolerance.

[1] On request, we produce couplings with the lengths of hubs different from the nominal lengths given in the table.

[2] The weight and the moment of inertia have been determined for the coupling with the maximum holes and nominal lengths of the hubs.