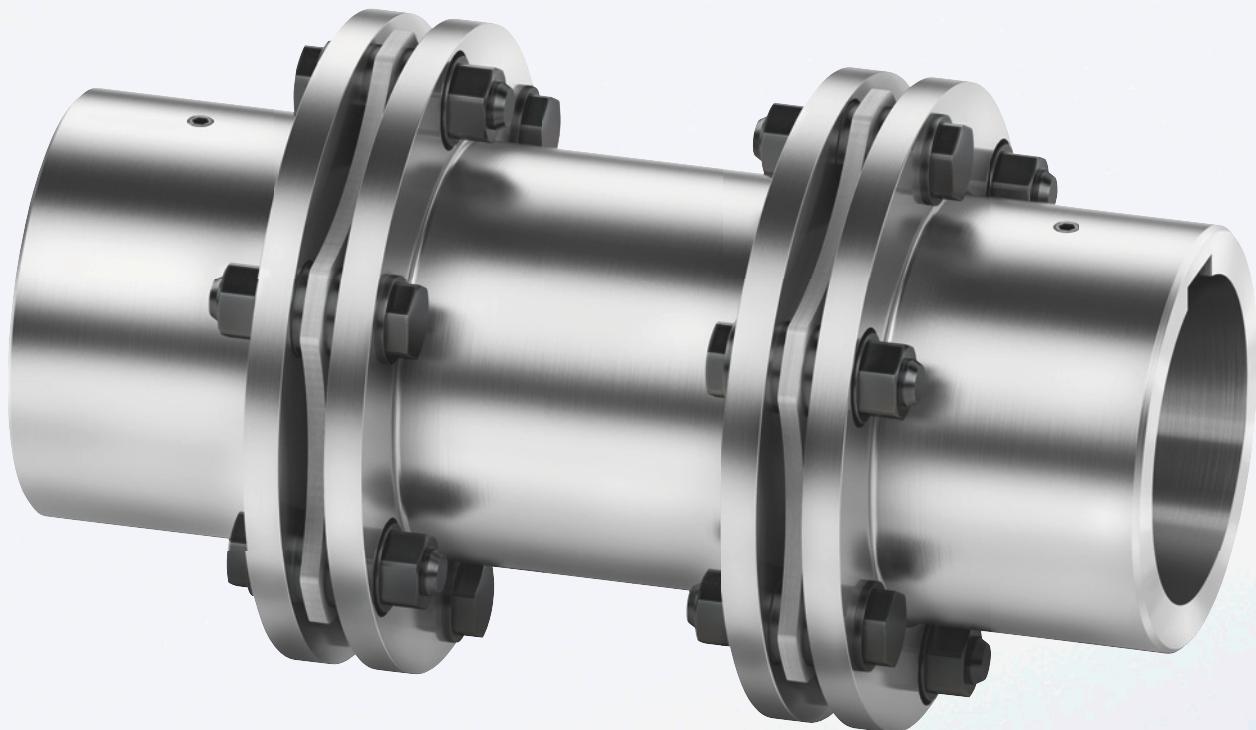


**SIEMENS**



# FLENDER Standard Couplings

N-ARPEX

FLENDER couplings

Catalog  
MD 10.1 N

Edition  
April  
2017

## Related catalogs

<b>ARPEX</b> High Performance Couplings	MD 10.2		<b>Bucket Elevator Drives</b>	MD 20.2	
E86060-K5710-A121-A1-7600			E86060-K5720-A121-A3-6300		
<b>SIPEX and BIPEX-S</b> Backlash-free Couplings	MD 10.3		<b>PLANUREX 2</b> Planetary Gear Units	MD 20.3	
E86060-K5710-A131-A1-7600			E86060-K5720-A131-A2-6300		
<b>ARPEX</b> Composite Couplings	MD 10.5		<b>Paper Machine Drives</b>	MD 20.5	
E86060-K5710-A151-A2-7400			E86060-K5720-A151-A2-6300		
<b>ARPEX</b> Couplings Miniature	MD 10.10		<b>Conveyor Drives</b>	MD 20.6	
E86060-K5710-A211-A2-6300			E86060-K5720-A161-A2-6300		
<b>ARPEX</b> Torque Limiters	MD 10.11		<b>Marine Reduction Gearboxes</b>	MD 20.7	
E86060-K5710-A221-A2-7400			E86060-K5720-A171-A1-7400		
<b>FLENDER SIP</b> Standard Industrial Planetary Gear Units	MD 31.1		<b>DUORED 2</b> Helical Gear Units, Load-sharing	MD 20.8	
E86060-K5731-A111-A5-7600			E86060-K5720-A181-A1-6300		
<b>Gear Units</b> Sizes 3–22	MD 20.1		<b>Pinion Drive for Tube Mills</b>	MD 20.9	
E86060-K5720-A111-A2-6300			E86060-K5720-A191-A1-7400		
<b>Gear Units</b> Sizes 23–28	MD 20.11		<b>SIMOGEAR Geared Motors</b>	MD 50.1	
E86060-K5720-A211-A3-6300			Helical, parallel shaft, bevel, helical worm and worm geared motors		
<b>Gear Units</b> Fast Track	MD 20.12		E86060-K5250-A111-A5-7600		
E86060-K5720-A221-A1-6300			<b>Industry Mall</b> Information and Ordering Platform in the Internet:		
			<a href="http://www.siemens.com/industrymall">www.siemens.com/industrymall</a>		

# Torsionally rigid all-steel couplings N-ARPEX ARN-6 series



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# FLENDER Standard Couplings

## Torsionally rigid all-steel couplings – N-ARPEX ARN-6 series

### General

#### Overview



Couplings suitable for use in potentially explosive atmospheres.

Compliant with the current ATEX directive for:

**CE Ex II 2G c IIC TX**  
-50 °C ≤  $T_a$  ≤ +260 °C X

**CE Ex II 2D c TX**  
-50 °C ≤  $T_a$  ≤ +260 °C X

**CE Ex I M2 c TX**  
-50 °C ≤  $T_a$  ≤ +150 °C X

#### Benefits

N-ARPEX ARN-6 series couplings are outstanding for their application-optimized construction. Types NEN, BEB, and MCECM meet the requirements of **API 610**. Couplings designed according to API 671 are also possible.

At speeds above 1800 rpm, the 5-part design with preassembled intermediate unit is used. A special fly-away prevention secures the intermediate spacer if a plate breaks. The use of the N-ARPEX coupling is permitted in potentially explosive atmospheres according to the current **ATEX directive**.

#### Application

The N-ARPEX couplings of the ARN-6 series are used wherever reliable torque transmission is required despite unavoidable displacements of the shafts. They can be used universally in a temperature range of -50 °C (use down to -60 °C on request) up to +280 °C, are torsionally rigid, free of torsional backlash, and permit smooth running at a constant angular velocity. They are not subject to wear, are maintenance-free, and an unlimited service life can be expected if they are properly mounted.

They are particularly suitable for use in pump and compressor drives. Couplings with standardized intermediate spacer lengths are available for this that can be supplied from stock (see tables below).

Main applications of the ARN-6 series:

- Pumps
- Fans
- Compressors
- Generator and turbine drives
- Axial and radial blowers
- Paper making and printing machines
- Mixers, agitators
- Extruders
- Hoisting gear and running gear
- Marine drives
- Water screw drives



With the introduction of the new FLENDER N-ARPEX all-steel disk coupling, Siemens is writing a further chapter in the ongoing success story of the proven ARPEX coupling series.

An optimized plate pack and a revised component design enable transmission of even greater torques and speeds.

All in all, the new design of the plate packs, the enclosed flange geometry, the standard fly-away prevention of the intermediate spacer, and the FEM-optimized power distribution within the all-steel disk coupling clearly show that the development has been worthwhile.

# FLENDER Standard Couplings

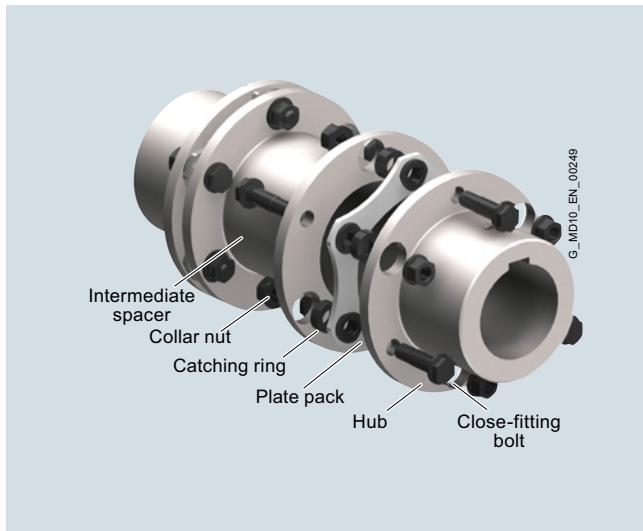
## Torsionally rigid all-steel couplings – N-ARPEX ARN-6 series

### General

#### Design

##### NEN

The design of an N-ARPEX type NEN of the ARN-6 series is shown in the following illustration. The coupling consists of two hubs, an intermediate spacer and two plate packs that can be bolted together with close-fitting bolts. The intermediate spacer is available in fixed lengths from stock. Other spacer lengths are made to order. The hubs are designed with threaded pull-off holes.



Design of the N-ARPEX coupling, ARN-6 series, type NEN

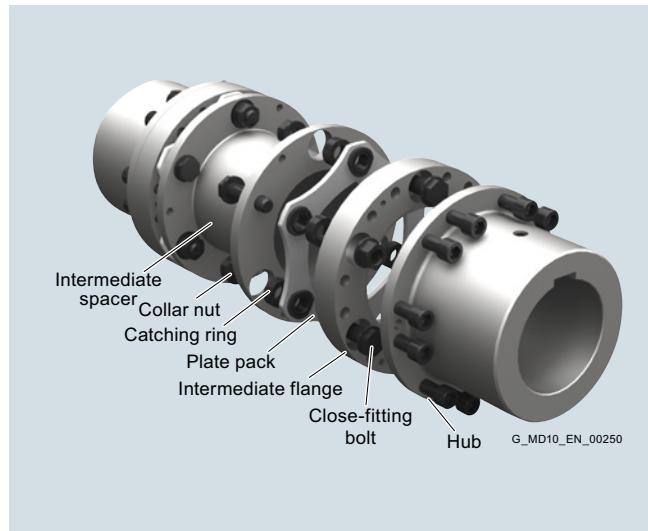
##### Variants of the N-ARPEX coupling, ARN-6 series

Type	Description
NEN, BEB	Variant with intermediate spacer, various fixed lengths available from stock
MCECM	Variant with preassembled intermediate unit, recess guide between hubs and preassembled intermediate unit, various fixed lengths available from stock

##### MCECM

The design of an N-ARPEX type MCECM of the ARN-6 series is shown in the following illustration. The coupling consists of two hubs and a preassembled intermediate unit (CEC) in which the plate packs are bolted to the intermediate spacer and centering flanges in the factory.

On site, it only remains to bolt the hubs to the centering flanges. The coupling is available in fixed lengths from stock. Other spacer lengths are made to order. The hubs are designed with threaded pull-off holes.



Design of the N-ARPEX coupling, ARN-6 series, type MCECM

Dimension sheets and 3D models of the standard types and application-specific coupling types are available in the selection module X:CAT NG at [www.siemens.com/couplings](http://www.siemens.com/couplings).

# FLENDER Standard Couplings

## Torsionally rigid all-steel couplings – N-ARPEX ARN-6 series

### General

#### Technical specifications

##### Performance data of type NEN, BEB, and MCECM

Size mm	Rated torque Nm	Maximum torque Nm	Overload torque Nm	Fatigue torque				Maximum speed rpm	Maximum permitted shaft misalignment (The radial misalignment $\pm\Delta K_r$ depends on the total length. Values are stated on page 6/10.)	Torsional stiffness for a plate pack (length-dependent torsional stiffness values are listed in the table on page 6/10)			
				$T_{Kw0}$									
				$T_N = 0 \% T_{KN}$ Nm	$T_{Kw} = T_{Kw0} \times (1 - T_N/T_{KN})$ 25 % $T_{KN}$ Nm	50 % $T_{KN}$ Nm	75 % $T_{KN}$ Nm						
<b>86-6</b>	350	700	875	175	131	88	44	24000	1.2	1.0°	0.132		
<b>103-6</b>	500	1000	1250	250	188	125	63	20000	1.4		0.206		
<b>122-6</b>	950	1900	2375	475	356	238	119	17000	2.0		0.463		
<b>133-6</b>	1250	2500	3125	625	469	313	156	15000	2.2		0.608		
<b>159-6</b>	2100	4200	5250	1050	788	525	263	13000	2.6		0.986		
<b>174-6</b>	2400	5200	6500	1300	975	650	325	12000	3.0		1.188		
<b>184-6</b>	3800	7600	9500	1900	1425	950	475	11000	3.2		1.826		
<b>203-6</b>	5000	10000	12500	2500	1875	1250	625	10000	3.4		2.591		
<b>217-6</b>	6200	12400	15500	3100	2325	1550	775	9500	3.4		3.285		
<b>251-6</b>	10500	22000	27500	5500	4125	2750	1375	8000	4.1		4.707		
<b>268-6</b>	13800	27600	34500	6900	5175	3450	1725	7500	4.2		5.635		
<b>291-6</b>	18200	36400	45500	9100	6825	4550	2275	7000	4.6		8.269		
<b>318-6</b>	23000	46000	57500	11500	8625	5750	2875	6500	5.0		10.936		
<b>343-6</b>	28000	56000	70000	14000	10500	7000	3500	6000	5.3		12.151		

The permitted shaft misalignments  $\Delta K_a$ ,  $\Delta K_r$  and  $\Delta K_w$  are maximum values and must not occur simultaneously (see the table below).

The torsional stiffness of the plate pack refers to the nominal range of the coupling. For the determination of the torsional stiffness for a specific operating point outside the nominal range, consultation is required.

##### **$T_{Kmax}$ permitted five times per hour.**

Length-dependent values, such as total length, torsional stiffness, radial misalignment, and total weight and mass moment of inertia are listed in the table on page 6/10.

##### Permitted shaft misalignments for types NEN, BEB, and MCECM

Size	Permitted angular misalignment $\pm\Delta K_w$										
	0.0°	0.1°	0.2°	0.3°	0.4°	0.5°	0.6°	0.7°	0.8°	0.9°	1.0°
DA	Permitted axial misalignment $\pm\Delta K_a$ in mm										
<b>86-6</b>	1.2	1.1	1.0	0.8	0.7	0.6	0.5	0.4	0.2	0.1	0.0
<b>103-6</b>	1.4	1.3	1.1	1.0	0.8	0.7	0.6	0.4	0.3	0.1	0.0
<b>122-6</b>	2.0	1.8	1.6	1.4	1.2	1.0	0.8	0.6	0.4	0.2	0.0
<b>133-6</b>	2.2	2.0	1.8	1.5	1.3	1.1	0.9	0.7	0.4	0.2	0.0
<b>159-6</b>	2.6	2.3	2.1	1.8	1.6	1.3	1.0	0.8	0.5	0.3	0.0
<b>174-6</b>	3.0	2.7	2.4	2.1	1.8	1.5	1.2	0.9	0.6	0.3	0.0
<b>184-6</b>	3.2	2.9	2.6	2.2	1.9	1.6	1.3	1.0	0.6	0.3	0.0
<b>203-6</b>	3.4	3.1	2.7	2.4	2.0	1.7	1.4	1.0	0.7	0.3	0.0
<b>217-6</b>	3.4	3.1	2.7	2.4	2.0	1.7	1.4	1.0	0.7	0.3	0.0
<b>251-6</b>	4.1	3.7	3.3	2.9	2.5	2.1	1.6	1.2	0.8	0.4	0.0
<b>268-6</b>	4.2	3.8	3.4	2.9	2.5	2.1	1.7	1.3	0.8	0.4	0.0
<b>291-6</b>	4.6	4.1	3.7	3.2	2.8	2.3	1.8	1.4	0.9	0.5	0.0
<b>318-6</b>	5.0	4.5	4.0	3.5	3.0	2.5	2.0	1.5	1.0	0.5	0.0
<b>343-6</b>	5.3	4.8	4.2	3.7	3.2	2.7	2.1	1.6	1.1	0.5	0.0

# FLENDER Standard Couplings

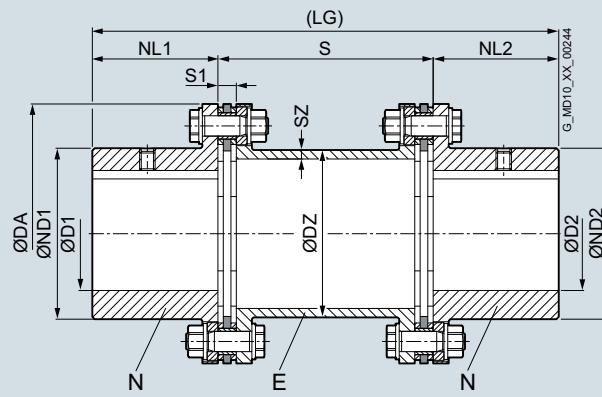
## Torsionally rigid all-steel couplings – N-ARPEX ARN-6 series

Type NEN

### Selection and ordering data

Torsionally rigid couplings of type NEN with radially freely dismountable intermediate spacer and fly-away prevention for securing the intermediate spacer if a plate breaks.

Standard coupling design in accordance with API 610. Coupling design in accordance with API 671 (up to  $n = 1800$  rpm) possible.



Size	Rated torque $T_{KN}$	Maximum speed $n_{max}$	Dimensions in mm							Shaft distance V = Preferred dimension	Mass moment of inertia kgm <sup>2</sup>	Article No. Further information on the structure of the Article No. is provided in Catalog MD 10.1, Chapter 3.	Weight kg	
			Bore with keyway to DIN 6885-1		D1/D2	NL1/ NL2	NL1/ NL2	DZ	SZ	S1				
DA			V	100	100	140	180	200	250	300	3.5"(88.9) 5"(127) 7"(177.8) 9"(228.6)	LG	J	m
mm	Nm	rpm	max.											
<b>86-6</b>	350	24000	42	56	45	46	5.5	8.0	<b>100</b>	<b>A</b> B C	M N P	190	0.0017	<b>2LC0370-0AA</b> ■■■ -0A ■ 0 2.1
<b>103-6</b>	500	20000	55	73	55	63	4.0	8.4	<b>100</b>	<b>A</b> B C	M N P	210	0.0040	<b>2LC0370-1AA</b> ■■■ -0A ■ 0 3.1
<b>122-6</b>	950	17000	65	85	65	73	4.0	8.8	<b>100</b>	<b>A</b> B C D E	M N P S	230	0.0097	<b>2LC0370-2AA</b> ■■■ -0A ■ 0 5.1
<b>133-6</b>	1250	15000	75	96	75	85	5.0	9.6	<b>100</b>	<b>A</b> B C D E	M N P S	250	0.0150	<b>2LC0370-3AA</b> ■■■ -0A ■ 0 6.5
<b>159-6</b>	2100	13000	80	104	80	100	5.0	11.6	<b>100</b>	<b>A</b> B C D E	M N P S	260	0.0301	<b>2LC0370-4AA</b> ■■■ -0A ■ 0 9.5
<b>174-6</b>	2400	12000	90	118	85	116	5.5	12.8	<b>100</b>	<b>A</b> B C D E	N P S	270	0.0465	<b>2LC0370-5AA</b> ■■■ -0A ■ 0 12.0
<b>184-6</b>	3800	11000	95	124	90	124	7.0	14.6	<b>140</b>	<b>B</b> C D E	N P S	320	0.0729	<b>2LC0370-6AA</b> ■■■ -0A ■ 0 16.4
<b>203-6</b>	5000	10000	100	135	95	128	6.5	15.0	<b>140</b>	<b>B</b> C D E	N P S	330	0.1099	<b>2LC0370-7AA</b> ■■■ -0A ■ 0 21.1
<b>217-6</b>	6200	9500	110	143	105	140	7.5	15.4	<b>140</b>	<b>B</b> C D E	N P S	350	0.1516	<b>2LC0370-8AA</b> ■■■ -0A ■ 0 24.9
<b>251-6</b>	10500	8000	120	160	110	160	10.0	20.6	<b>180</b>	<b>C</b> D E	P S	400	0.3078	<b>2LC0371-0AA</b> ■■■ -0A ■ 0 38.8
<b>268-6</b>	13800	7500	130	170	130	170	10.0	22.0	<b>180</b>	<b>C</b> D E	P S	440	0.4550	<b>2LC0371-1AA</b> ■■■ -0A ■ 0 49.5
<b>291-6</b>	18200	7000	145	190	140	190	10.0	22.8	<b>180</b>	<b>C</b> D E	P S	460	0.6805	<b>2LC0371-2AA</b> ■■■ -0A ■ 0 61.9
<b>318-6</b>	23000	6500	155	205	150	205	12.5	23.2	<b>200</b>	<b>D</b> E F	S	500	1.0788	<b>2LC0371-3AA</b> ■■■ -0A ■ 0 83.1
<b>343-6</b>	28000	6000	170	230	160	230	15.0	24.0	<b>200</b>	<b>D</b> E F	S	520	1.5633	<b>2LC0371-4AA</b> ■■■ -0A ■ 0 104.1
<b>ØD1:</b>	<ul style="list-style-type: none"> <li>Without finished bore – Without order codes for diameter and tolerance</li> <li>With finished bore – With order codes for diameter and tolerance (Article No. without "-Z"; for an overview of order codes, see page 6/12)</li> </ul>											1		
<b>ØD2:</b>	<ul style="list-style-type: none"> <li>Without finished bore – Without order codes for diameter and tolerance</li> <li>With finished bore – With order codes for diameter and tolerance (Article No. without "-Z"; for an overview of order codes, see page 6/12)</li> </ul>											1		
Shaft distance S:	<ul style="list-style-type: none"> <li>Codes for metric (mm) = <b>A, B, C, D, E, F</b></li> <li>Imperial (inches) = <b>M, N, P, S</b></li> </ul>											9		

Hubs are designed with threaded pull-off holes.

Special lengths available on request.

The total lengths, the weights, and the mass moments of inertia apply to the entire coupling with maximum bores D1/D2 and the preferred shaft distance S.

### Ordering example:

N-ARPEX coupling ARN-6 NEN, size 217-6, with shaft distance S = 140 mm (**2LC0370-8AA99-0AB0**).

Bore ØD1 50H7 mm, with keyway to DIN 6885-1 and set screw (**L1C** / for an overview of order codes, see page 6/12),

Bore ØD2 60H7 mm, with keyway to DIN 6885-1 and set screw (**M1E** / for an overview of order codes, see page 6/12)

Article No.:

**2LC0370-8AA99-0AB0**

**L1C+M1E**

# FLENDER Standard Couplings

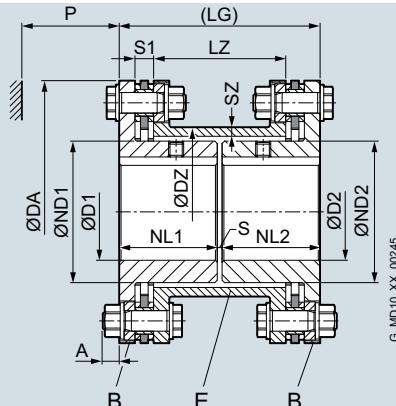
## Torsionally rigid all-steel couplings – N-ARPEX ARN-6 series

### Type BEB

#### Selection and ordering data

Torsionally rigid couplings of type BEB with the smallest possible shaft distance.

Type BEB cannot be dismounted freely in the radial direction without moving the connected units.



Size	Rated torque $T_{KN}$	Maximum speed $n_{max}$	Dimensions in mm										Mass moment of inertia $J$	Article No. Further information on the structure of the Article No. is provided in Catalog MD 10.1, Chapter 3.	Weight $m$	
			Shaft distance													
mm	Nm	rpm	max.	D1/D2	ND1/ ND2	NL1/ NL2	DZ	SZ	LZ	S1	S	A	P	LG		
<b>86-6</b>	350	24000	22	33	30	46	5.5	44.0	8.0	12	8	32	72	0.0013	<b>2LC0370-0AB</b> ■■■-0AA0	1.5
<b>103-6</b>	500	20000	38	53	34	63	4.0	43.2	8.4	4	8	32	72	0.0027	<b>2LC0370-1AB</b> ■■■-0AA0	2.0
<b>122-6</b>	950	17000	48	63	56	73	4.0	82.4	8.8	4	8	38	116	0.0078	<b>2LC0370-2AB</b> ■■■-0AA0	4.3
<b>133-6</b>	1250	15000	55	72	56	85	5.0	80.8	9.6	4	7	38	116	0.0114	<b>2LC0370-3AB</b> ■■■-0AA0	5.2
<b>159-6</b>	2100	13000	65	85	57	100	5.0	76.8	11.6	4	11	48	118	0.0251	<b>2LC0370-4AB</b> ■■■-0AA0	7.8
<b>174-6</b>	2400	12000	75	98	77	116	5.5	114.4	12.8	4	10	48	158	0.0407	<b>2LC0370-5AB</b> ■■■-0AA0	11.0
<b>184-6</b>	3800	11000	80	104	80	124	7.0	110.8	14.6	4	17	64	164	0.0637	<b>2LC0370-6AB</b> ■■■-0AA0	14.7
<b>203-6</b>	5000	10000	85	111	80	128	6.5	110.0	15.0	4	16	64	164	0.0925	<b>2LC0370-7AB</b> ■■■-0AA0	17.7
<b>217-6</b>	6200	9500	90	117	81	140	7.5	109.2	15.4	4	14	66	166	0.1286	<b>2LC0370-8AB</b> ■■■-0AA0	21.2
<b>251-6</b>	10500	8000	100	130	102	160	10.0	138.8	20.6	6	15	77	210	0.2716	<b>2LC0371-0AB</b> ■■■-0AA0	34.4
<b>268-6</b>	13800	7500	108	141	105	170	10.0	136.0	22.0	6	17	89	216	0.4019	<b>2LC0371-1AB</b> ■■■-0AA0	43.5
<b>291-6</b>	18200	7000	120	156	106	190	10.0	134.4	22.8	6	15	89	218	0.5832	<b>2LC0371-2AB</b> ■■■-0AA0	52.4
<b>318-6</b>	23000	6500	130	169	118	205	12.5	153.6	23.2	6	20	100	242	0.9384	<b>2LC0371-3AB</b> ■■■-0AA0	71.4
<b>343-6</b>	28000	6000	150	195	143	230	15.0	202.0	24.0	6	19	100	292	1.3845	<b>2LC0371-4AB</b> ■■■-0AA0	93.1

$\varnothing D1$ : • Without finished bore – Without order codes for diameter and tolerance

• With finished bore – With order codes for diameter and tolerance (Article No. without "-Z"; for an overview of order codes, see page 6/12)

$\varnothing D2$ : • Without finished bore – Without order codes for diameter and tolerance

• With finished bore – With order codes for diameter and tolerance (Article No. without "-Z"; for an overview of order codes, see page 6/12)

Hubs are designed with threaded pull-off holes.

Special lengths available on request.

The total lengths, the weights, and the mass moments of inertia apply to the entire coupling with maximum bores D1/D2 and the preferred shaft distance S.

#### Ordering example:

N-ARPEX coupling ARN-6 BEB, size 217-6, with shaft distance S = 4 mm (**2LC0370-8AB99-0AA0**),

Bore  $\varnothing D1$  50H7 mm, with keyway to DIN 6885-1 and set screw (**L1C** / for an overview of order codes, see page 6/12),

Bore  $\varnothing D2$  60H7 mm, with keyway to DIN 6885-1 and set screw (**M1E** / for an overview of order codes, see page 6/12)

Article No.:

**2LC0370-8AB99-0AA0**  
**L1C+M1E**

# FLENDER Standard Couplings

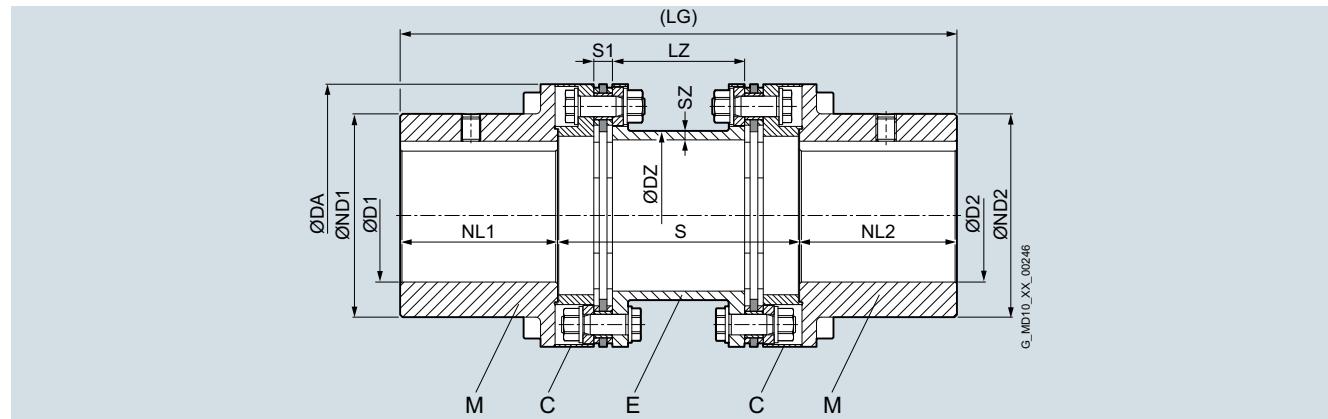
## Torsionally rigid all-steel couplings – N-ARPEX ARN-6 series

Type MCECM

### Selection and ordering data

Torsionally rigid couplings of type MCECM with radially freely dismountable preassembled intermediate unit and fly-away prevention for securing the intermediate spacer if a plate breaks.

Standard coupling design in accordance with **API 610**. Coupling design in accordance with **API 671** possible.



Size	Rated torque $T_{KN}$	Maximum speed $n_{max}$	Dimensions in mm										Mass moment of inertia	Article No. Further information on the structure of the Article No. is provided in Catalog MD 10.1, Chapter 3.	Weight $m$					
			Bore with keyway to DIN 6885-1			Shaft distance V = Preferred dimension														
DA	D1/D2	ND1/ ND2	NL1/ NL2	DZ	SZ	LZ	S1	S	V	100	140	180	200	300	5" (127)	7" (178)	9" (226)	kgm²		
mm	Nm	rpm	max.						V									kg		
<b>86-6</b>	350	24000	42	62	42	46	5.5	84.0	8.0	<b>140</b>	<b>A</b>	<b>B</b>	<b>C</b>	N	P	S	224	0.0030	<b>2LC0370-0AC</b> ■■■-0A ■■■ 0 3.1	
<b>103-6</b>	500	20000	55	72	55	63	4.0	83.2	8.4	<b>140</b>	<b>A</b>	<b>B</b>	<b>C</b>	N	P	S	250	0.0063	<b>2LC0370-1AC</b> ■■■-0A ■■■ 0 4.4	
<b>122-6</b>	950	17000	70	91	70	73	4.0	82.4	8.8	<b>140</b>	<b>B</b>	<b>C</b>	<b>D</b>	E	N	P	S	280	0.0155	<b>2LC0370-2AC</b> ■■■-0A ■■■ 0 7.6
<b>133-6</b>	1250	15000	80	103	80	85	5.0	80.8	9.6	<b>140</b>	<b>B</b>	<b>C</b>	<b>D</b>	E	P	S	300	0.0236	<b>2LC0370-3AC</b> ■■■-0A ■■■ 0 9.4	
<b>159-6</b>	2100	13000	95	123	95	100	5.0	76.8	11.6	<b>140</b>	<b>B</b>	<b>C</b>	<b>D</b>	E	P	S	330	0.0539	<b>2LC0370-4AC</b> ■■■-0A ■■■ 0 15.0	
<b>174-6</b>	2400	12000	105	136	105	116	5.5	74.4	12.8	<b>140</b>	<b>B</b>	<b>C</b>	<b>D</b>	E	P	S	350	0.0840	<b>2LC0370-5AC</b> ■■■-0A ■■■ 0 19.4	
<b>184-6</b>	3800	11000	110	142	110	124	7.0	110.8	14.6	<b>200</b>	<b>D</b>	<b>E</b>	P	S	420	0.0853	<b>2LC0370-6AC</b> ■■■-0A ■■■ 0 25.6			
<b>203-6</b>	5000	10000	115	150	115	128	6.5	110.0	15.0	<b>200</b>	<b>D</b>	<b>E</b>	P	S	430	0.1829	<b>2LC0370-7AC</b> ■■■-0A ■■■ 0 31.8			
<b>217-6</b>	6200	9500	130	168	130	140	7.5	109.2	15.4	<b>200</b>	<b>D</b>	<b>E</b>	S	460	0.2655	<b>2LC0370-8AC</b> ■■■-0A ■■■ 0 39.7				
<b>251-6</b>	10500	8000	150	193	150	160	10.0	138.8	20.6	<b>250</b>	<b>E</b>	S	550	0.5583	<b>2LC0371-0AC</b> ■■■-0A ■■■ 0 62.7					
<b>268-6</b>	13800	7500	160	206	160	170	10.0	136.0	22.0	<b>250</b>	<b>E</b>	S	570	0.7773	<b>2LC0371-1AC</b> ■■■-0A ■■■ 0 76.0					
<b>291-6</b>	18200	7000	170	221	170	190	10.0	134.4	22.8	<b>250</b>	<b>E</b>	S	590	1.1127	<b>2LC0371-2AC</b> ■■■-0A ■■■ 0 92.4					
<b>318-6</b>	23000	6500	190	245	190	205	12.5	153.6	23.2	<b>300</b>	<b>F</b>	S	680	1.9087	<b>2LC0371-3AC</b> ■■■-0A ■■■ 0 131.7					
<b>343-6</b>	28000	6000	205	267	205	230	15.0	152.0	24.0	<b>300</b>	<b>F</b>	S	710	2.7346	<b>2LC0371-4AC</b> ■■■-0A ■■■ 0 161.6					
ØD1:	<ul style="list-style-type: none"> <li>Without finished bore – Without order codes for diameter and tolerance</li> <li>With finished bore – With order codes for diameter and tolerance (Article No. without "Z"; for an overview of order codes, see page 6/12)</li> </ul>																	1 9		
ØD2:	<ul style="list-style-type: none"> <li>Without finished bore – Without order codes for diameter and tolerance</li> <li>With finished bore – With order codes for diameter and tolerance (Article No. without "Z"; for an overview of order codes, see page 6/12)</li> </ul>																	1 9		
Shaft distance S:	<ul style="list-style-type: none"> <li>Codes for metric (mm) = <b>A, B, C, D, E, F</b></li> <li>Imperial (inches) = <b>N, P, S</b></li> </ul>																			

Hubs are designed with threaded pull-off holes.

Special lengths available on request.

The total lengths, the weights, and the mass moments of inertia apply to the entire coupling with maximum bores D1/D2 and the preferred shaft distance S.

Plate packs in the CEC intermediate unit assembled at the factory.

### Ordering example:

N-ARPEX coupling ARN-6 MCECM, size 217-6, with shaft distance S = 200 mm (**2LC0370-8AC99-0AD0**),

Bore ØD1 50H7 mm, with keyway to DIN 6885-1 and set screw (**L1C** / for an overview of order codes, see page 6/12),

Bore ØD2 60H7 mm, with keyway to DIN 6885-1 and set screw (**M1E** / for an overview of order codes, see page 6/12)

Article No.:

**2LC0370-8AC99-0AD0**  
**L1C+M1E**

# FLENDER Standard Couplings

## Torsionally rigid all-steel couplings – N-ARPEX ARN-6 series

### Clamping hub

#### Selection and ordering data

Clamping hub types 124 and 125 can be combined with any sleeve. It should be noted that the clamping hub can be used only as an N hub (hub core outside).

#### Function

N-ARPEX clamping hubs transmit the torque with the aid of an elastic press fit. By pulling the clamping ring on by means of the tightening screws the necessary surface pressure is applied in the "shaft/hub" contact area. After the tightening operation the clamping ring lies up against the clamping hub.

#### Transmissible torque

The clamping connections are designed to enable the specified maximum torques to be transmitted. These maximum torques may not be exceeded, even under overload conditions.

#### Fitting clearance and surface roughness

The transmissible torques take into account the maximum fitting clearance for the bore and shaft of quality IT6 and the maximum surface roughness. For other shaft tolerances reduced torques

or other bore tolerances must be used. The surface roughness of the shaft should be  $R_a \leq 1.6 \mu\text{m}$ .

#### The fit pairing G6/h6 should be used wherever possible.

Different shaft tolerances must be stated in the order. They are stated with "-Z" on the end of the Article No. and the order code "Y26" for the fit.

#### Ordering example:

N-ARPEX clamping hub type 124, size 133-6, "-Z" with supplementary data

**(2LC0370-3LM90-0AA0-Z)**,

Shaft ØD1 = 40k6

(**LOW** / for an overview of order codes for bore size, see page 6/12)

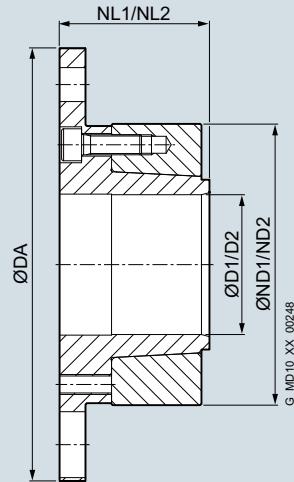
(**Y26** / fit stated here)

Article No.:

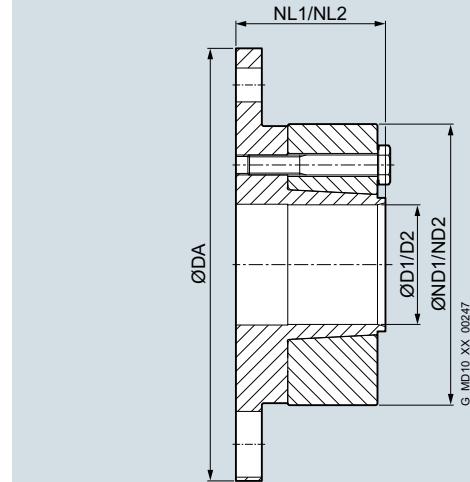
**2LC0370-3LM90-0AA0-Z**

**LOW+Y26**

(**Y26:k6**)



Clamping hub type 125 (standard version)



Clamping hub type 124

Size DA mm	Clamping hub Type	Dimensions in mm				Mass moment of inertia $\text{kgm}^2$	Article No.	Weight $m$
		D1 Keyway DIN 6885-1 min.	ND max.	NL	J		Further information on the structure of the Article No. is provided in Catalog MD 10.1, Chapter 3	kg
<b>86-6</b>	124 125	19	25	50	35	0.0003	<b>2LC0370-0LM90-0AA0</b> <b>2LC0370-0LN90-0AA0</b>	0.5
<b>103-6</b>	124 125	25	38	67	40	0.0009	<b>2LC0370-1LM90-0AA0</b> <b>2LC0370-1LN90-0AA0</b>	0.9
<b>122-6</b>	124 125	30	42	77	45	0.0021	<b>2LC0370-2LM90-0AA0</b> <b>2LC0370-2LN90-0AA0</b>	1.5
<b>133-6</b>	124 125	32	50	88	50	0.0034	<b>2LC0370-3LM90-0AA0</b> <b>2LC0370-3LN90-0AA0</b>	2.0
<b>159-6</b>	124 125	35	60	105	55	0.0077	<b>2LC0370-4LM90-0AA0</b> <b>2LC0370-4LN90-0AA0</b>	3.2
<b>174-6</b>	124 125	40	70	120	65	0.0135	<b>2LC0370-5LM90-0AA0</b> <b>2LC0370-5LN90-0AA0</b>	4.6
<b>184-6</b>	124 125	45	70	126	70	0.0195	<b>2LC0370-6LM90-0AA0</b> <b>2LC0370-6LN90-0AA0</b>	5.9
<b>203-6</b>	124 125	50	80	139	75	0.0298	<b>2LC0370-7LM90-0AA0</b> <b>2LC0370-7LN90-0AA0</b>	7.4







# FLENDER Standard Couplings

## Torsionally rigid all-steel couplings – N-ARPEX ARN-6 series

### Bore specifications

#### Options

The order codes listed in the tables below designate bore size D1 or D2.

For additional options, please refer to the necessary order codes from [Chapter 3 of Catalog MD 10.1](#).

This is implemented with the bore tolerance H7 with a keyway according to DIN 6885-1 and a set screw.

#### Bore diameter metric in mm

Bore diameter	Order code for bore diameter ØD1 H7	Bore diameter	Order code for bore diameter ØD1 H7	Bore diameter	Order code for bore diameter ØD1 H7
	ØD2 H7		ØD2 H7		ØD2 H7
6	L0A	MOA	38	L0V	MOV
7	L0B	MOB	40	L0W	MOW
8	L0C	MOC	42	L0X	MOX
9	L0D	MOD	45	L1A	M1A
10	L0E	MOE	48	L1B	M1B
11	L0F	MOF	50	L1C	M1C
12	L0G	MOG	55	L1D	M1D
14	L0H	MOH	60	L1E	M1E
16	L0J	MOJ	65	L1F	M1F
18	L0K	MOK	70	L1G	M1G
19	L0L	MOL	75	L1H	M1H
20	L0M	MOM	80	L1J	M1J
22	L0N	MON	85	L1K	M1K
24	L0P	MOP	90	L1L	M1L
25	L0Q	MOQ	95	L1M	M1M
28	L0R	MOR	100	L1N	M1N
30	L0S	MOS	105	L1P	M1P
32	L0T	MOT	110	L1Q	M1Q
35	L0U	MOU	115	L1R	M1R

#### Bore diameter imperial in inches

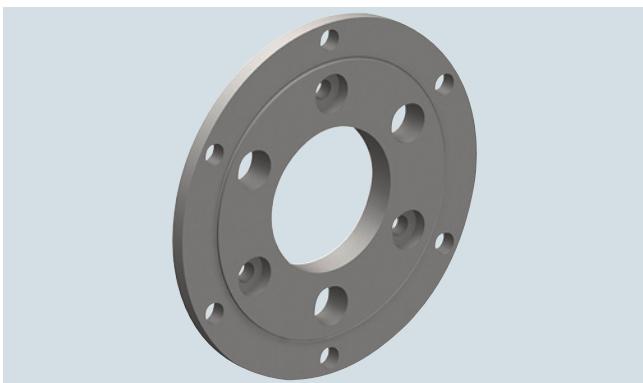
Bore diameter	Order code for bore diameter ØD1 H7	Bore diameter	Order code for bore diameter ØD1 H7	Bore diameter	Order code for bore diameter ØD1 H7
	ØD2 H7		ØD2 H7		ØD2 H7
0.1875	L5A	M5A	2.0625	L6H	M6H
0.25	L5B	M5B	2.125	L6J	M6J
0.3125	L5C	M5C	2.1875	L6K	M6K
0.375	L5D	M5D	2.25	L6L	M6L
0.5	L5E	M5E	2.3125	L6M	M6M
0.5625	L5F	M5F	2.375	L6N	M6N
0.625	L5G	M5G	2.4375	L6P	M6P
0.6875	L5H	M5H	2.5	L6Q	M6Q
0.75	L5J	M5J	2.5625	L6R	M6R
0.8125	L5K	M5K	2.625	L6S	M6S
0.875	L5L	M5L	2.6875	L6T	M6T
0.9375	L5M	M5M	2.75	L6U	M6U
1	L5N	M5N	2.8125	L6V	M6V
1.0625	L5P	M5P	2.875	L6W	M6W
1.125	L5Q	M5Q	2.9375	L6X	M6X
1.1875	L5R	M5R	3	L7A	M7A
1.25	L5S	M5S	3.0625	L7B	M7B
1.3125	L5T	M5T	3.125	L7C	M7C
1.375	L5U	M5U	3.1875	L7D	M7D
1.4375	L5V	M5V	3.25	L7E	M7E
1.5	L5W	M5W	3.3125	L7F	M7F
1.5625	L5X	M5X	3.375	L7G	M7G
1.625	L6A	M6A	3.4375	L7H	M7H
1.6875	L6B	M6B	3.5	L7J	M7J
1.75	L6C	M6C	3.5625	L7K	M7K
1.8125	L6D	M6D	3.625	L7L	M7L
1.875	L6E	M6E	3.6875	L7M	M7M
1.9375	L6F	M6F	3.75	L7N	M7N
2	L6G	M6G	3.8125	L7P	M7P

# FLENDER Standard Couplings

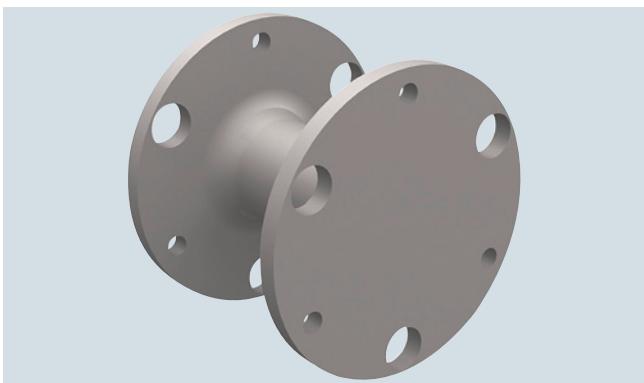
## Torsionally rigid all-steel couplings – N-ARPEX ARN-6 series

[Other design options](#)

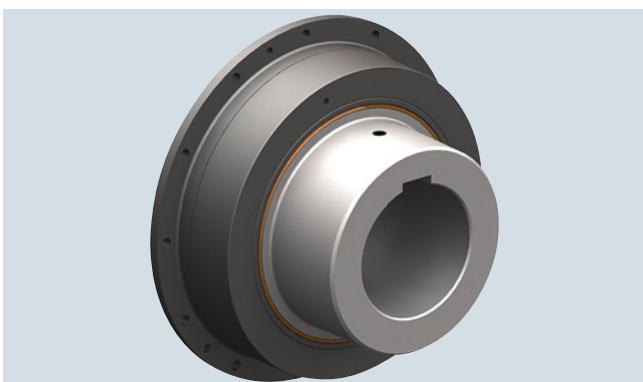
### Overview



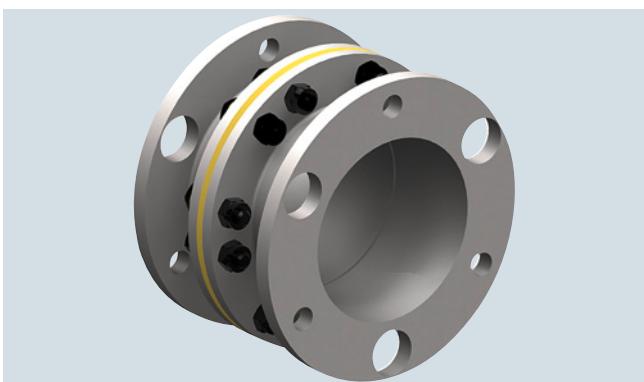
Flange version for adaptation to a customer flange



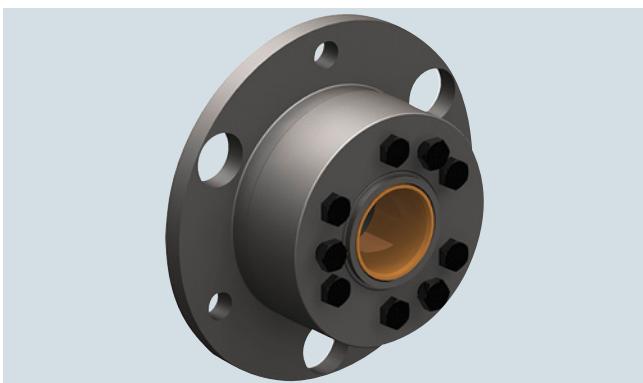
Intermediate spacer as a torsion shaft for reducing the torsional stiffness



Slipping flanges for overload protection against brief high-frequency torque shock loads



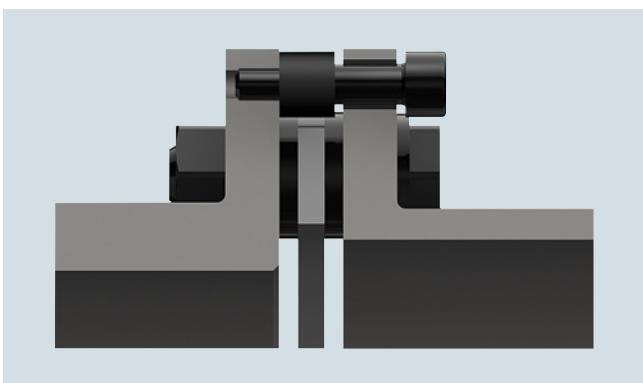
Version for avoiding leakage currents between the connected units



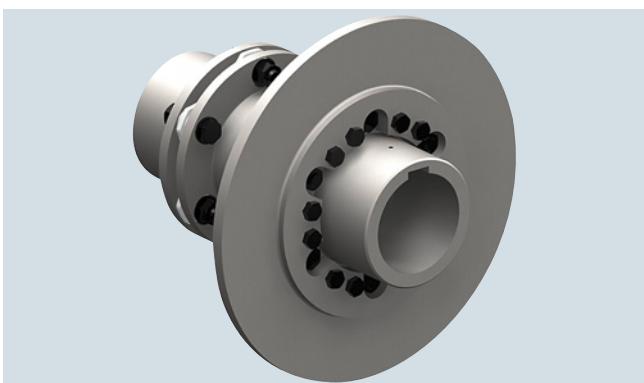
Slipping hubs for overload protection against brief high-frequency torque shock loads



Vertical support for avoiding excessive axial loading of the plate packs by the weight of the intermediate spacer



Axial backlash limiter



Brake disk/brake drum

Siemens AG  
Process Industries and Drives  
Mechanical Drives  
Postfach 13 64  
46393 BOCHOLT  
GERMANY

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