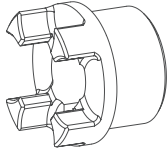


### Types of hubs

Since ROTEX® is used on many different applications and mounting conditions, this coupling system is available with various hub types. These types mainly differ in that they provide either positive or frictionally engaged (backlash-free) connections, but mounting situations like, for example, gear shafts with integrated transmission cams or similar applications are covered, too.



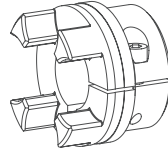
#### Type 1.0 hub with feather keyway and setscrew

Positive-locking power transmission, permissible torque depending on the permissible surface pressure. Not suitable for backlash-free power transmission with heavily reversing operation.

Type 1.1 hub without feather keyway, with setscrew

Non-positive torque transmission for crimping connections and adhesive bonds. (No ATEX approval)

Type 1.3 hub with spline bore (see page 36)



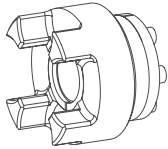
#### Type 2.0 clamping hub single slot without feather keyway

Frictionally engaged, backlash-free shaft-hub-connection. Transmittable torques depending on bore diameter (see page 44). (For ATEX category 3 only)

Type 2.1 clamping hub single slot with feather keyway

Positive-locking power transmission with additional friction fit. The friction fit avoids or reduces reverse backlash. Surface pressure of the keyway connection is reduced.

Type 2.3 clamping hub with spline bore (see page 36)



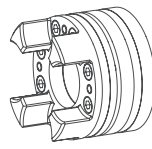
#### Type 4.2 hub for CLAMPEX® clamping set KTR 250

Frictionally engaged, backlash-free shaft-hub-connection for transmitting average torques.

Type 4.1 for CLAMPEX® clamping set KTR 200

Type 4.3 for CLAMPEX® clamping set KTR 400

Frictionally engaged, backlash-free shaft-hub-connection for the transmission of high torques.

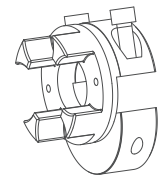


#### Type 6.0 clamping ring hub (see ROTEX® GS series)

Integrated frictionally engaged shaft-hub-connection for the transmission of higher torques. Screwing on elastomer side. For details about torque and dimensions see page 43. Suitable for high speeds.

Type 6.5 clamping ring hub (see ROTEX® GS series)

Design like 6.0, except for clamping screws externally. As an example for radial disassembly of intermediate pipe (special design).

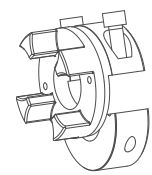


#### Type 7.5 clamping hub type DH without feather keyway for double-cardanic connection

Frictionally engaged, backlash-free shaft-hub-connection for radial assembly of coupling. Transmittable torques depending on bore diameter. (For ATEX category 3 only)

Type 7.6 clamping hub type DH with feather keyway for double-cardanic connection

Positive-locking power transmission with additional friction fit for radial assembly of coupling. The friction fit avoids or reduces reverse backlash. Surface pressure of the keyway connection is reduced.

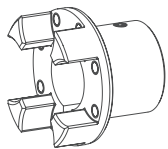


#### Type 7.8 clamping hub type H without feather keyway

Frictionally engaged, backlash-free shaft-hub-connection for radial assembly of coupling. Transmittable torques depending on bore diameter. (For ATEX category 3 only)

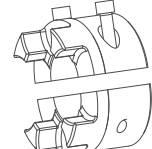
Type 7.9 clamping hub type H with feather keyway

Positive-locking power transmission with additional friction fit for radial assembly of coupling. The friction fit avoids or reduces reverse backlash. Surface pressure of the keyway connection is reduced.



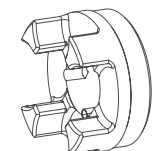
#### FNN hub

Coupling hub to be connected to an attachment such as brake drum, brake disk and fan.



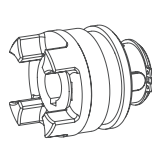
#### Type 7.1 SPLIT hub with feather keyway

Split hub made of cast iron. Positive-locking power transmission with additional friction fit. The friction fit avoids or reduces reverse backlash. Surface pressure of the keyway connection is reduced.



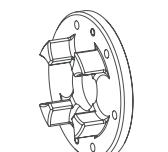
#### TB1 hub/TB2 hub

Coupling hub for taper clamping sleeves TB1 screwed on cam side. TB2 screwed externally.



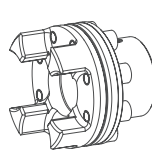
#### SD hub shifting hub

Coupling hub for separating resp. switching on the driving/driven machine with standstill of the machine. Can be combined with slip ring and shiftable linkage.



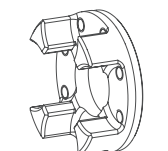
#### Driving flange type 3b

Driving flange to connect to customer's component. For dimensions see page 52



#### Type 3Na and 4N Driving flange with flange type K

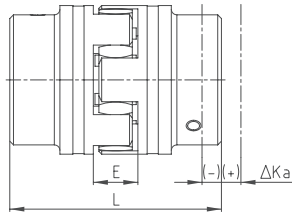
For type AFN and BFN. With type AFN the spider can be replaced when installed without having to disassemble the driving and driven side.



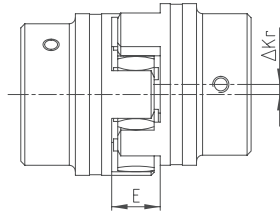
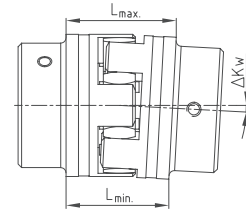
#### Driving flange type 3Na

Driving flange to connect to customer's component. For dimensions see page 52

## Displacements

**Axial displacement  $\Delta K_a$** 


$$L_{\max} = L + \Delta K_a$$

**Radial displacement  $\Delta K_r$** 

**Angular displacement  $\Delta K_w$  [degree]**


$$\Delta K_w \text{ [mm]} = L_{\max} - L_{\min}$$

**Displacements for spider 92 and 98 Shore A**

ROTEX® size	14	19	24	28	38	42	48	55	65	75	90	100	110	125	140	160	180
Max. axial displacement $\Delta K_a$ [mm]	-0.5 +1.0	-0.5 +1.2	-0.5 +1.4	-0.7 +1.5	-0.7 +1.8	-1.0 +2.0	-1.0 +2.1	-1.0 +2.2	-1.0 +2.6	-1.5 +3.0	-1.5 +3.4	-1.5 +3.8	-2.0 +4.2	-2.0 +4.6	-2.0 +5.0	-2.5 +5.7	-3.0 +6.4
Max. radial displacement with $n=1500$ rpm $\Delta K_r$ [mm]	0.17	0.20	0.22	0.25	0.28	0.32	0.36	0.38	0.42	0.48	0.50	0.52	0.55	0.60	0.62	0.64	0.68
Max. angular displacement with $n=1500$ rpm $\Delta K_w$ [degree]	1.2	1.2	0.9	0.9	1.0	1.0	1.1	1.1	1.2	1.2	1.2	1.2	1.3	1.3	1.2	1.2	1.2
$\Delta K_w$ [mm]	0.67	0.82	0.85	1.05	1.35	1.70	2.00	2.30	2.70	3.30	4.30	4.80	5.60	6.50	6.60	7.60	9.00

**Displacements for spider 64 Shore D**

ROTEX® size	14	19	24	28	38	42	48	55	65	75	90	100	110	125	140	160	180
Max. axial displacement $\Delta K_a$ [mm]	-0.5 +1.0	-0.5 +1.2	-0.5 +1.4	-0.7 +1.5	-0.7 +1.8	-1.0 +2.0	-1.0 +2.1	-1.0 +2.2	-1.0 +2.6	-1.5 +3.0	-1.5 +3.4	-1.5 +3.8	-2.0 +4.2	-2.0 +4.6	-2.0 +5.0	-2.5 +5.7	-3.0 +6.4
Max. radial displacement with $n=1500$ rpm $\Delta K_r$ [mm]	0.11	0.13	0.15	0.18	0.21	0.23	0.25	0.27	0.30	0.34	0.36	0.37	0.40	0.43	0.45	0.46	0.49
Max. angular displacement with $n=1500$ rpm $\Delta K_w$ [degree]	1.1	1.1	0.8	0.8	0.9	0.9	1.0	1.0	1.1	1.1	1.1	1.1	1.2	1.2	1.1	1.1	1.1
$\Delta K_w$ [mm]	0.57	0.76	0.76	0.90	1.25	1.40	1.80	2.00	2.50	3.00	3.80	4.30	5.30	6.00	6.10	7.10	8.00

**Displacements for spider PA, PEEK**

ROTEX® size	14	19	24	28	38	42	48	55	65	75	90	100	110	125	140
Max. axial displacement $\Delta K_a$ [mm]	-0.5 +1.0	-0.5 +1.2	-0.5 +1.4	-0.7 +1.5	-0.7 +1.8	-1.0 +2.0	-1.0 +2.1	-1.0 +2.2	-1.0 +2.6	-1.5 +3.0	-1.5 +3.4	-1.5 +3.8	-2.0 +4.2	-2.0 +4.6	-2.0 +5.0
Max. radial displacement with $n=1500$ rpm $\Delta K_r$ [mm]	0.08	0.10	0.11	0.12	0.14	0.16	0.18	0.19	0.21	0.24	0.25	0.26	0.27	0.30	0.31
Max. angular displacement with $n=1500$ rpm $\Delta K_w$ [degree]	0.60	0.45	0.45	0.50	0.50	0.55	0.55	0.55	0.60	0.60	0.60	0.60	0.65	0.65	0.60
$\Delta K_w$ [mm]	0.33	0.41	0.42	0.52	0.67	0.85	1.00	1.15	1.35	1.65	2.15	2.40	2.80	3.25	3.30

The above-mentioned permissible displacement figures of the flexible ROTEX® couplings are standard values taking into account the load of the coupling up to the rated torque  $T_{KN}$  and an operating speed  $n = 1500$  rpm along with an ambient temperature of  $+30$  °C. The displacement figures may only be used one by one, if they appear simultaneously, they must be limited in proportion. Care should be taken to maintain the distance dimension  $E$  accurately in order to allow for axial clearance of the coupling while in operation. Detailed mounting instructions are shown on our homepage [www.ktr.com](http://www.ktr.com).

# ROTEX®

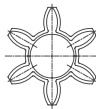
## Flexible jaw couplings

### Properties of standard spiders

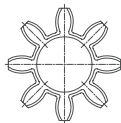
ROTEX® 14



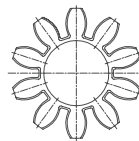
ROTEX® 19



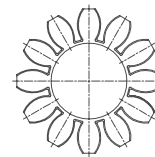
ROTEX® 24 - 65



ROTEX® 75 - 160







ROTEX® 180




#### Degree of hardness



Spider type (Shore hardness)	92 Shore A (T-PUR®)	92 Shore A
	 <b>T-PUR®</b>	
Size	14 to 180	14 to 90
Material	T-PUR®	Polyurethane (PUR)
Permissible temperature range		
Permanent temperature	-50 °C to +120 °C	-40 °C to +90 °C
Short-term temperature	-50 °C to +150 °C	-50 °C to +120 °C
Features	<ul style="list-style-type: none"> <li>– significantly higher service life expectancy</li> <li>– very good temperature resistance</li> <li>– improved damping of vibrations</li> <li>– good damping, average flexibility</li> <li>– suitable for all hub materials</li> </ul>	<ul style="list-style-type: none"> <li>– good damping, average flexibility</li> <li>– suitable for all hub materials</li> </ul>

Spider type (Shore hardness)	98 Shore A (T-PUR®) <sup>1)</sup>	98 Shore A <sup>1)</sup>
	 <b>T-PUR®</b>	
Size	14 to 180	14 to 90
Material	T-PUR®	Polyurethane (PUR)
Permissible temperature range		
Permanent temperature	-50 °C to +120 °C	-30 °C to +90 °C
Short-term temperature	-50 °C to +150 °C	-40 °C to +120 °C
Features	<ul style="list-style-type: none"> <li>– significantly higher service life expectancy</li> <li>– very good temperature resistance</li> <li>– improved damping of vibrations</li> <li>– transmission of high torques with average damping</li> <li>– recommended hub material: steel, GJL and GJS</li> </ul>	<ul style="list-style-type: none"> <li>– transmission of high torques with average damping</li> <li>– recommended hub material: steel, GJL and GJS</li> </ul>



Spider type (Shore hardness)	64 Shore D (T-PUR®)
	 <b>T-PUR®</b>
Size	14 to 180
Material	T-PUR®
Permissible temperature range	
Permanent temperature	-50 °C to +120 °C
Short-term temperature	-50 °C to +150 °C
Features	<ul style="list-style-type: none"> <li>– significantly higher service life expectancy</li> <li>– very good temperature resistance</li> <li>– improved damping of vibrations</li> <li>– transmission of very high torques with low damping</li> <li>– recommended hub material: steel and GJS</li> </ul>



# ROTEX®

## Flexible jaw couplings

### Technical data and properties of special spiders

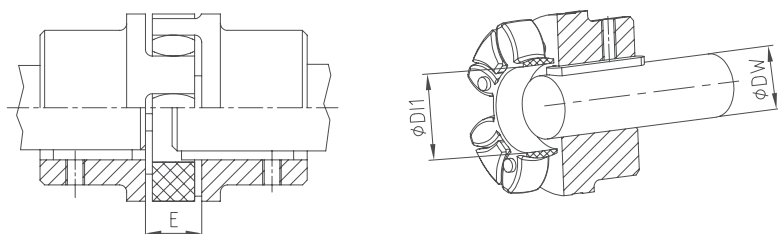
		
Description	PA	PEEK
Material	Polyamide	Polyetheretherketone
Permissible temperature range		
Permanent temperature	-20 °C to +130 °C <sup>1)</sup>	up to +180 °C
Short-term temperature	-30 °C to +150 °C <sup>1)</sup>	up to +250 °C
Features	<ul style="list-style-type: none"> <li>- small twisting angle and high torsion spring stiffness</li> <li>- transmission of very high torques with very low damping</li> <li>- good resistance to chemicals <sup>1)</sup></li> <li>- recommended hub material: steel</li> <li>- high restoring forces with displacements</li> </ul>	<ul style="list-style-type: none"> <li>- small twisting angle and high torsion spring stiffness</li> <li>- transmission of very high torques with very low damping</li> <li>- highly temperature-resistant, resistant to hydrolysis</li> <li>- good resistance to chemicals</li> <li>- recommended hub material: steel</li> <li>- high restoring forces with displacements</li> </ul>

<sup>1)</sup> different properties depending on compound

Torques			
ROTEX® size	PA, PEEK		
	T <sub>KN</sub> [Nm]	T <sub>K max</sub> [Nm]	T <sub>KW</sub> [Nm]
14	22	44	5.5
19	30	60	8.0
24	105	210	27.5
28	280	560	73
38	565	1130	147
42	785	1570	204
48	915	1830	238
55	1200	2400	312
65	1645	3290	427
75	2560	5130	667
90	6300	12600	1640
100	8650	17300	2250
110	10500	21000	2730
125	13000	26000	3380

Temperature factor S <sub>t</sub>												
	-50 °C	-30 °C +30 °C	+40 °C	+50 °C	+60 °C	+70 °C	+80 °C	+90 °C	+100 °C	+110 °C	+120 °C	+180 °C
PA	-	1.0	1.15	1.25	1.4	1.6	1.9	2.3	3.0	-	-	-
PEEK	-	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

### Installation of spider



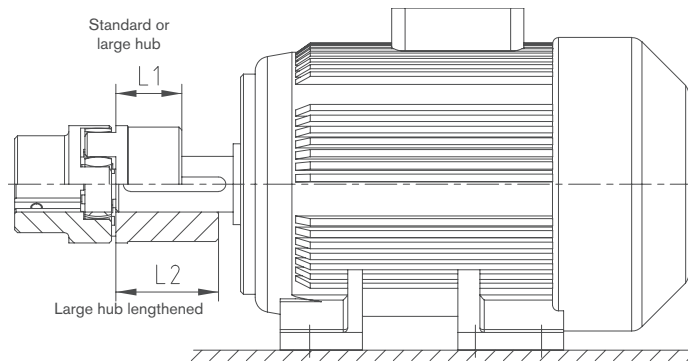
Shaft ØDW with feather key (acc. to DIN 6885 sheet 1) protruding into the spider ØD11

Assembly dimensions																	
ROTEX® size	14	19	24	28	38	42	48	55	65	75	90	100	110	125	140	160	180
Distance dimension E	13	16	18	20	24	26	28	30	35	40	45	50	55	60	65	75	85
Dimension D11	10	18	27	30	38	46	51	60	68	80	100	113	127	147	165	190	220
Dimension DW <sup>2)</sup>	7	12	20	22	28	36	40	48	55	65	80	95	100	120	135	160	185

<sup>2)</sup> If the shaft diameter is smaller than or equal to dimension D11, one shaft end or both shaft ends may protrude with the feather keyway into the spider.

# ROTEX® Flexible jaw couplings

## Selection of standard IEC motors



ROTEX® couplings for standard IEC motors, protection class IP 54/IP 55 (spider 92 Shore A)														
Size	A. C. motor 50 Hz		Motor power n=3000 rpm 2 poles		ROTEX® coupling size	Motor power n=1500 rpm 4 poles		ROTEX® coupling size	Motor power n=1000 rpm 6 poles		ROTEX® coupling size	Motor power n=750 rpm 8 poles		ROTEX® coupling size
	Shaft end DWxLW [mm]		Power P [kW]	Torque T [Nm]		Power P [kW]	Torque T [Nm]		Power P [kW]	Torque T [Nm]		Power P [kW]	Torque T [Nm]	
	2 poles	4, 6, 8 poles												
56	9 x 20		0.09	0.32	g <sup>1)</sup>	0.06	0.43	g <sup>1)</sup>	0.037	0.43	g <sup>1)</sup>			
			0.12	0.41		0.09	0.64		0.045	0.52				
63	11 x 23		0.18	0.62	14	0.12	0.88	14	0.06	0.7	14			
			0.25	0.86		0.18	1.3		0.09	1.1				
71	14 x 30		0.37	1.3	19	0.25	1.8	19	0.18	2	19	0.09	1.4	14
			0.55	1.9		0.37	2.5		0.25	2.8		0.12	1.8	
80	19 x 40		0.75	2.5	19	0.55	3.7	19	0.37	3.9	19	0.18	2.5	19
			1.1	3.7		0.75	5.1		0.55	5.8		0.25	3.5	
90S	24 x 50		1.5	5	24	1.1	7.5	24	0.75	8	24	0.37	5.3	24
90L			2.2	7.4		1.5	10		1.1	12		0.55	7.9	
100L	28 x 60		3	9.8	24	2.2	15	24	1.5	15	24	0.75	11	24
						3	20		1.5	15		1.1	16	
112M			4	13	28	4	27	28	2.2	22	28	1.5	21	28
132S	38 x 80		5.5	18		5.5	36		3	30		2.2	30	
132M			7.5	25	28	7.5	49	28	4	40	28	3	40	28
										5.5		55		
160M	42 x 110		11	36	38	11	72	38	7.5	75	38	4	54	38
			15	49						11		109		
160L			18.5	60	42	15	98	42	15	148	42	7.5	100	42
180M	48 x 110		22	71		22	144		18.5	181		15	198	
180L					42			42			42			42
200L	55 x 110		30	97		30	196		18.5	181		15	198	
			37	120	48			48	22	215	48			48
225S	55 x 110													
225M	60 x 140		45	145	48	45	292	48	30	293	48	22	290	55
250M	60 x 140		55	177		55	356		55	361		30	392	65
280S	75 x 140		75	241	55	75	484	55	45	438	55	37	483	65 <sup>2)</sup>
280M			90	289		90	581		55	535		45	587	75
315S	80 x 170		110	353	65	110	707	65	75	727	65	55	712	75
315M	80 x 170		132	423		132	849		90	873		75	971	
	80 x 170		160	513	75	160	1030	75	110	1070	75	90	1170	90
315L	80 x 170		200	641		200	1290		132	1280		110	1420	
	85 x 170				75			75			75			75
315	85 x 170		250	802		250	1600		200	1930		160	2070	
	95 x 170		315	1010	90	315	2020	90	250	2410	90	200	2580	100
	95 x 170		355	1140		355	2280		250	2410		200	2580	100
355	75 x 140		400	1280	90	400	2570	90	315	3040	90	250	3220	110
			500	1600		500	3210		400	3850		315	4060	125
	110 x 210		560	1790	100	560	3580	100	450	4330	100	355	4570	140
400	80 x 170		630	2020		630	4030		500	4810		400	5150	140
	120 x 210		710	2270	110	710	4540	110	560	5390	110	450	5790	140
			800	2560		800	5120		630	6060		500	6420	
450	90 x 170		900	2880	110	900	5760	110	710	6830	110	560	7190	160
			1000	3200		1000	6400		800	7690		630	8090	

The coupling selection is based on an ambient temperature up to +30 °C. The selection is based on a minimum safety factor of 2 versus the max. coupling torque ( $T_{K \max}$ ). A detailed selection is possible according to catalogue page 14 et seqq. Drives with periodical torque curves must be selected according to DIN 740 part 2. If requested, KTR will perform the selection. Torque T = rated torque according to Siemens catalogue M 11 · 1994/95.

<sup>1)</sup> For dimensions see ROTEX® GS series

<sup>2)</sup> For motor hub made of steel see page 40

### Cylindrical bores and spline bores

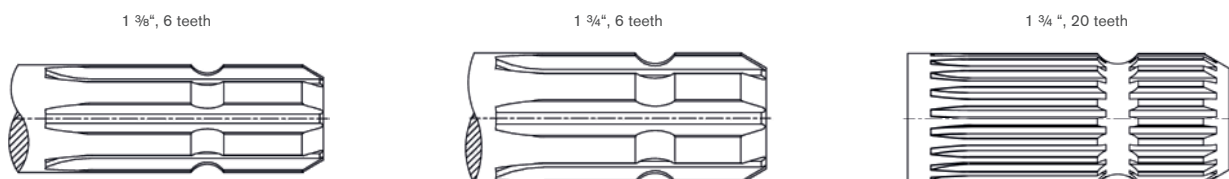
ROTEX® size		Stock programme of cylindrical finish bores [mm] H7 feather keyway acc. to DIN 6885 sheet 1 [JS9] and setscrew																																				
Material	Un-bored	Ø6	Ø8	Ø9	Ø10	Ø11	Ø12	Ø14	Ø15	Ø16	Ø17	Ø18	Ø19	Ø20	Ø22	Ø24	Ø25	Ø28	Ø30	Ø32	Ø35	Ø38	Ø40	Ø42	Ø45	Ø48	Ø50	Ø55	Ø60	Ø65	Ø70	Ø75	Ø80	Ø85	Ø90	Ø100		
14	Sint	●																																				
	Al-H	●	●	●	●	●	●	●	●	●																												
19	Sint	●																																				
	Al-D	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	St	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
24	Sint	●																																				
	Al-D	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	St	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
28	Al-D	●																																				
	St	●																																				
38	GJL	●																																				
	St	●																																				
42	GJL	●																																				
	St	●																																				
48	GJL	●																																				
	St	●																																				
55	GJL	●																																				
	St	●																																				
65	GJL	●																																				
	St	●																																				
75	GJL	●																																				
	St	●																																				
90	GJL	●																																				
	St	●																																				

Basic programme of SAE involute splines												
Spline code	Size	Pitch circle	Pitch	No. of teeth	Angle	Spline code	Size	Pitch circle	Pitch	No. of teeth	Angle	
PH-S	5/8"	14.28	16/32	9	30°	PS-S	1 1/2"	35.98	12/24	17	30°	
PI-S	3/4"	17.46	16/32	11	30°	PD-S	1 1/2"	36.51	16/32	23	30°	
PB-S	7/8"	20.63	16/32	13	30°	PE-S	1 3/4"	42.86	16/32	27	30°	
PB-BS	1"	23.81	16/32	15	30°	PK-S	1 3/4"	41.275	8/16	13	30°	
PJ	1 1/8"	26.98	16/32	17	30°	PT-C <sup>1)</sup>	2"	47.625	8/16	15	30°	
PC-S	1 1/4"	29.63	12/24	14	30°	PQ-C <sup>1)</sup>	2 1/4"	53.975	8/16	17	30°	
PA-S	1 3/8"	33.33	16/32	21	30°							

Basic programme of spline bores acc. to DIN 5482										
Size	Pitch circle	Module	No. of teeth	Profile correction	Size	Pitch circle	Module	No. of teeth	Profile correction	
A 17 x 14	14.40	1.6	9	+0.600 <sup>2)</sup>	A 35 x 31	31.50	1.75	18	+0.676	
A 20 x 17	19.20	1.6	12	-0.2	A 40 x 36	38.00	1.9	20	+0.049	
A 25 x 22	22.40	1.6	14	+0.550	A 45 x 41	44.00	2	22	+0.181	
A 28 x 25	26.25	1.75	15	+0.302	A 50 x 45	48.00	2	24	+0.181	
A 30 x 27	28.00	1.75	16	+0.327						

Basic programme of spline bores acc. to DIN 5480								
Spline code	Pitch circle	Module	No. of teeth	Spline code	Pitch circle	Module	No. of teeth	
20 x 1 x 18 x 8H	18.0	1	18	40 x 2 x 18 x 8H	36.0	2	18	
20 x 1.25 x 14 x 8H	17.5	1.25	14	45 x 2 x 21 x 8H	41.0	2	21	
25 x 1.25 x 18 x 8H	22.5	1.25	18	48 x 2 x 22 x 9H	44.0	2	22	
28 x 1.25 x 21 x 8H	26.25	1.25	21	50 x 2 x 24 x 8H	48.0	2	24	
30 x 2 x 14 x 8H	26.0	2	14	60 x 2 x 28 x 8H	56.0	2	28	
32 x 2 x 14 x 8H	28.0	2	14	75 x 3 x 24 x 8H	72.0	3	24	
35 x 2 x 16 x 8H	32.0	2	16	80 x 3 x 25 x 8H	75.0	3	25	

Basic programme of spline bores acc. to DIN 9611 - ISO 500 (p.t.o. shaft connection)				
Size	Width of keyway	No. of teeth	Tip circle	Root circle
1 3/8"	8.69	6	34.93	29.65
1 3/8"	-	21	34.95	34.80 <sup>3)</sup>
1 3/4"	11.07	6	44.45	37.74
1 3/4"	-	20	45.20	40.20



Spline clamping hubs are often adapted to the shafts of hydraulic pump/hydraulic motor shafts. Please contact us for the respective hub length of the spline code!

<sup>1)</sup> For clamping hubs only, with plug-in hubs use code PT or PQ.

<sup>2)</sup> Profile correction different from DIN

<sup>3)</sup> Similar to code PA-S

# ROTEX® Flexible jaw couplings

Flexible jaw and pin & bush couplings

ROTEX®

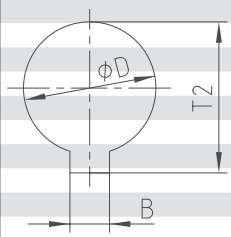
POLY-NORM®

POLY

REVOLLEX®

## Inch bores and taper bores

Stock programme of inch bores						Size									
Bore and keyway acc. to ANSI/AGMA 9002-C14 Bore (clearance fit) Keyway (commercial class fit)						19	24	28	38	42	48	55	65	75	90
KTR code	Ø bore ["]	Width of keyway ["]	Ø bore [mm]	Width of keyway [mm]	Keyway depth/ Tolerance +0.381 [mm]	Steel			Cast iron (GJL)						
Tb	3/8	1/8	9.525 +0.0254	3.175 +0.051	10.972										
DNB	7/16	3/32	11.112 +0.0254	2.382 +0.051	12.293										
T	1/2	3/16	12.7 +0.0254	4.762 +0.051	14.757										
Ta	1/2	1/8	12.7 +0.0254	3.175 +0.051	14.224	●	●								
DNC	17/32	1/8	13.495 +0.0254	3.175 +0.051	15.011										
Do	9/16	1/8	14.287 +0.0254	3.175 +0.051	15.824										
E	5/8	1/8	15.875 +0.0254	3.175 +0.051	17.424										
Es	5/8	5/32	15.875 +0.0254	3.968 +0.051	17.729	●	●	●							
Ed	5/8	3/16	15.875 +0.0254	4.762 +0.051	18.008	●	●								
DNH	11/16	3/16	17.462 +0.0254	4.762 +0.051	19.634										
Ad	3/4	1/8	19.05 +0.0254	3.175 +0.051	20.624										
A	3/4	3/16	19.05 +0.0254	4.762 +0.051	21.259	●	●	●	●						
G	7/8	3/16	22.225 +0.0254	4.762 +0.051	24.485	●	●	●	●	●					
F	7/8	1/4	22.225 +0.0254	6.35 +0.051	25.069		●	●	●	●					
Gf	15/16	1/4	23.812 +0.0254	6.35 +0.051	26.695										
H	1	3/16	25.4 +0.0254	4.762 +0.051	27.686										
Hs	1	1/4	25.4 +0.0254	6.35 +0.051	28.295		●	●	●	●					
R	1 1/16	3/16	26.987 +0.0254	4.762 +0.051	29.286										
Sb	1 1/8	1/4	28.575 +0.0254	6.35 +0.051	31.521		●	●	●	●					
Sd	1 1/8	5/16	28.575 +0.0254	7.937 +0.051	32.105										
Js	1 1/4	1/4	31.75 +0.0254	6.35 +0.051	34.721				●						
K	1 1/4	5/16	31.75 +0.0254	7.937 +0.051	35.331			●	●	●	●	●	●		
Ma	1 3/8	5/16	34.925 +0.0254	7.937 +0.051	38.557			●	●						
RH1	1 3/8	3/8	34.925 +0.0254	9.525 +0.063	39.141										
Cb	1 7/16	3/8	36.512 +0.0254	9.525 +0.063	40.767										
Ca	1 1/2	5/16	38.1 +0.0254	7.937 +0.051	41.783										
C	1 1/2	3/8	38.1 +0.0254	9.525 +0.0635	42.392				●	●	●	●	●	●	
Nb	1 5/8	3/8	41.275 +0.0254	9.525 +0.0635	45.618				●	●					
Ls	1 3/4	3/8	44.45 +0.0254	9.525 +0.0635	48.818										
L	1 3/4	7/16	44.45 +0.0254	11.112 +0.0635	49.428										
Lu	1 7/8	1/2	47.625 +0.0254	12.7 +0.0635	53.238				●						
Da	1 15/16	1/2	49.212 +0.0254	12.7 +0.0635	54.864										
Ds	2	1/2	50.8 +0.0254	12.7 +0.0635	56.464										
Pa	2 1/8	1/2	53.975 +0.0381	12.7 +0.063	59.69										
U	2 1/4	1/2	57.15 +0.0381	12.7 +0.063	62.915										
Ub	2 3/8	5/8	60.325 +0.0381	15.875 +0.076	67.335										
Wd	3 3/8	7/8	85.725 +0.0381	22.225 +0.076	95.504										
Wf	3 5/8	7/8	92.075 +0.0381	22.225 +0.076	101.955										

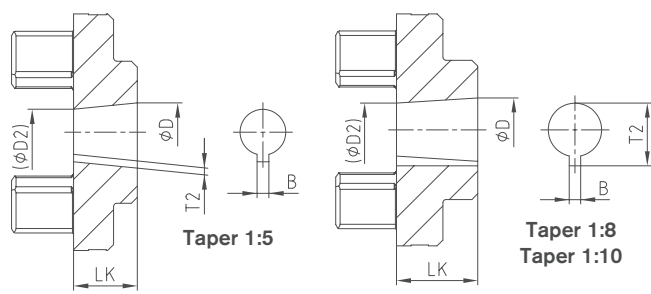


Basic programme taper 1:3					
Code	D <sup>+0.05</sup>	(D2)	B <sup>JS9</sup>	T2 <sup>+0.1</sup>	LK
N/1	9.7	7.575	2.4 <sup>+0.05</sup>	10.85	17.0
N/1c	11.6	9.5375	3 <sup>JS9</sup>	12.90	16.5
N/1e	13.0	10.375	2.4 <sup>+0.05</sup>	13.80	21.0
N/1d	14.0	11.813	3 <sup>JS9</sup>	15.50	17.5
N/1b	14.3	11.8625	3.2 <sup>+0.05</sup>	15.65	19.5
N/2	17.287	14.287	3.2 <sup>+0.05</sup>	18.24	24.0
N/2a	17.287	14.287	4 <sup>JS9</sup>	18.94	24.0
N/2b	17.287	14.287	3 <sup>JS9</sup>	18.34	24.0
N/3	22.002	18.502	4 <sup>JS9</sup>	23.40	28.0
N/4	25.463	20.963	4.78 <sup>+0.05</sup>	27.83	36.0
N/4b	25.463	20.963	5 <sup>JS9</sup>	28.23	36.0
N/4a	27.0	22.9375	4.78 <sup>+0.05</sup>	28.80	32.5
N/4g	28.45	23.6375	6 <sup>JS9</sup>	29.32	38.5
N/5	33.176	27.676	6.38 <sup>+0.05</sup>	35.39	44.0
N/5a	33.176	27.676	7 <sup>JS9</sup>	35.39	44.0

With code N/6 and N/6a keyway in parallel with taper.

Basic programme of taper 1:10					
Code	D <sup>+0.05</sup>	(D2)	B <sup>JS9</sup>	T2 <sup>+0.1</sup>	LK
CX	19.95	16.75	5 <sup>JS9</sup>	22.08	32
DX	24.95	20.45	6 <sup>JS9</sup>	26.68	45
EX	29.75	24.75	8 <sup>JS9</sup>	31.88	50

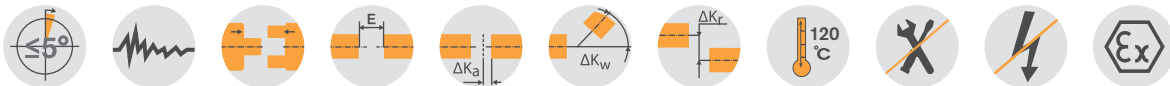
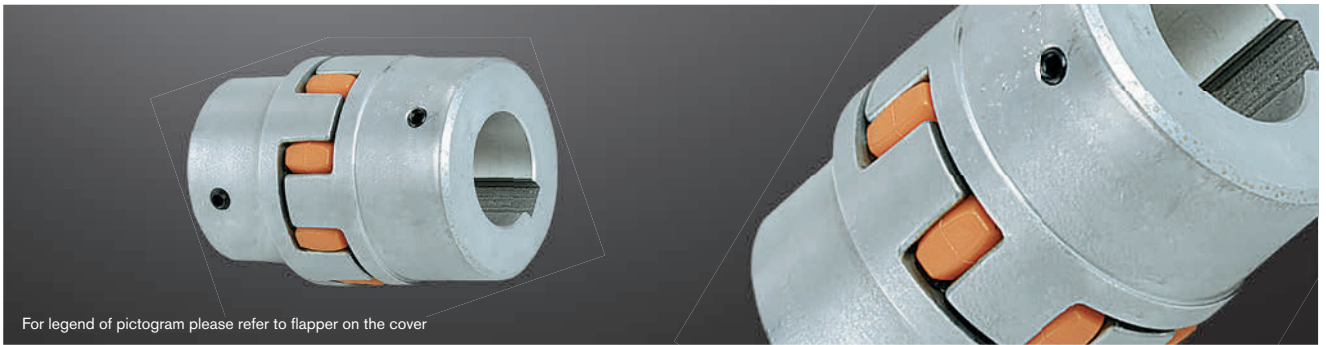
Basic programme taper 1:5					
Code	D <sup>+0.05</sup>	(D2)	B <sup>JS9</sup>	T2 <sup>+0.1</sup>	LK
A-10	9.85	7.55	2 <sup>JS9</sup>	1.0	11.5
B-17	16.85	13.15	3 <sup>JS9</sup>	1.8	18.5
C-20	19.85	15.55	4 <sup>JS9</sup>	2.2	21.5
Cs-22	21.95	17.65	3 <sup>JS9</sup>	1.8	21.5
D-25	24.85	19.55	5 <sup>JS9</sup>	2.9	26.5
E-30	29.85	23.55	6 <sup>JS9</sup>	2.6	31.5
F-35	34.85	27.55	6 <sup>JS9</sup>	2.6	36.5
G-40	39.85	32.85	6 <sup>JS9</sup>	2.6	35.0





# ROTEX® Standard Flexible jaw couplings

Materials: aluminium + cast + powder metal



ROTEX® Powder metal steel (Sint)																		
Size	Component	Spider <sup>1)</sup> (component 2) Rated torque [Nm]			Finish bore D (min. - max.)	Dimensions [mm]										Setscrew		
		92 ShA	98 ShA	64 ShD		General										G	T	T <sub>A</sub> [Nm]
					L	L1, L2	E	B1	S	DH	DI1	DN	N					
14	1a	7.5	12.5	—	0-16	35	11	13	10	1.5	30	10	30	—	M4	5	1.5	
19	1a	10	17	—	0-24	66	25	16	12	2.0	40	18	40	—	M5	10	2	
24	1a	35	60	—	0-28	78	30	18	14	2.0	56	27	56	—	M5	10	2	

ROTEX® Aluminium diecast (Al-D)																		
Size	Component	Spider <sup>1)</sup> (component 2) Rated torque [Nm]			Finish bore D (min. - max.)	Dimensions [mm]										Setscrew		
		92 ShA	98 ShA	64 ShD		General										G	T	T <sub>A</sub> [Nm]
					L	L1, L2	E	B1	S	DH	DI1	DN	N					
19	1	10	17	—	6-19	66	25	16	12	2	41	18	32	20	M5	10	2	
	19-24				41													
24	1	35	60	—	9-24	78	30	18	14	2	56	27	40	24	M5	10	2	
	22-28				56													
28	1	95	160	—	10-28	90	35	20	15	2.5	66	30	48	28	M8	15	10	
	28-38				66													

ROTEX® Aluminium (Al-H)																		
Size	Component	Spider <sup>1)</sup> (component 2) Rated torque [Nm]			Finish bore D (min. - max.)	Dimensions [mm]										Setscrew		
		92 ShA	98 ShA	64 ShD		General										G	T	T <sub>A</sub> [Nm]
					L	L1, L2	E	B1	S	DH	DI1	DN	N					
5	1a	0.5	0.9	-	0-6	15	5	5	4	0.5	10	-	-	-	M2	2.5	-	
7	1a	1.2	2.0	2.4	0-7	22	7	8	6	1.0	14	-	-	-	M3	3.5	-	
9	1a	3.0	5.0	6.0	0-11	30	10	10	8	1.0	20	7.2	-	-	M4	5	1.5	
12	1a	5.0	9.0	12	0-12	34	11	12	10	1.0	25	8.5	-	-	M4	5	1.5	
14	1a	7.5	12.5	16	0-16	35	11	13	10	1.5	30	10.5	-	-	M4	5	1.5	
19	1a	10	17	26	0-24	66	25	16	12	2.0	40	18	-	-	M5	10	2	
24	1a	35	60	75	0-28	78	30	18	14	2.0	55	27	-	-	M5	10	2	
28	1a	95	160	200	0-38	90	35	20	15	2.5	65	30	-	-	M8	15	10	
38	1a	190	325	405	0-45	114	45	24	18	3.0	80	38	-	-	M8	15	10	
42	1a	265	450	560	0-55	126	50	26	20	3.0	95	46	-	-	M8	20	10	
48	1a	310	525	655	0-62	140	56	28	21	3.0	105	51	-	-	M8	20	10	

The coupling is provided with a ROTEX® GS spider as a standard (ROTEX® standard spider available, if requested).

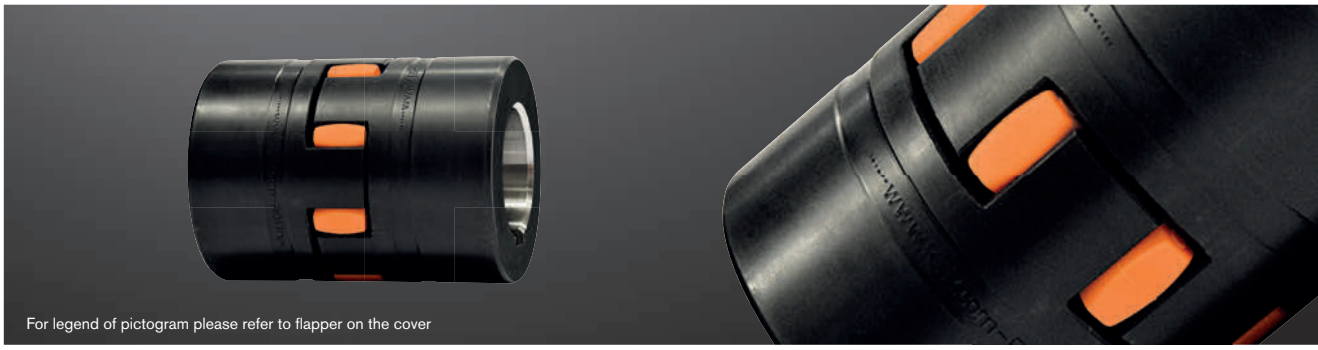
ROTEX® Cast iron (GJL)																		
Size	Component	Spider <sup>1)</sup> (component 2) Rated torque [Nm]			Finish bore D (min. - max.)	Dimensions [mm]										Setscrew		
		92 ShA	98 ShA	64 ShD		General										G	T	T <sub>A</sub> [Nm]
					L	L1, L2	E	B1	S	DH	DI1	DN	N					
38	1	190	325	405	12-40	114	45	24	18	3	80	38	66	37	M8	15	10	
	38-48				78													
42	1	265	450	560	14-45	126	50	26	20	3	95	46	75	40	M8	20	10	
	42-55				94													
48	1	310	525	655	15-52	140	56	28	21	3.5	105	51	85	45	M8	20	10	
	48-62				104													
55	1	410	685	825	20-60	188	80	30	22	4	120	60	98	52	M10	20	17	
	55-74				118													
65	1	625	940	1175	22-70	185	75	35	26	4.5	135	68	115	61	M10	20	17	
75	1	1280	1920	2400	30-80	210	85	40	30	5	160	80	135	69	M10	25	17	
90	1	2400	3600	4500	40-100	245	100	45	34	5.5	200	100	160	81	M12	30	40	

ROTEX® Nodular iron (GJS)																		
Size	Component	Spider <sup>1)</sup> (component 2) Rated torque [Nm]			Finish bore D (min. - max.)	Dimensions [mm]										Setscrew		
		92 ShA	98 ShA	64 ShD		General										G	T	T <sub>A</sub> [Nm]
					L	L1, L2	E	B1	S	DH	DI1	DN	N					
100	1	3300	4950	6185	50-115	270	110	50	38	6	225	113	180	89	M12	30	40	
110	1	4800	7200	9000	60-125	295	120	55	42	6.5	255	127	200	96	M16	35	80	
125	1	6650	10000	12500	60-145	340	140	60	46	7	290	147	230	112	M16	40	80	
140	1	8550	12800	16000	60-160	375	155	65	50	7.5	320	165	255	124	M20	45	140	
160	1	12800	19200	24000	80-185	425	175	75	57	9	370	190	290	140	M20	50	140	
180	1	18650	28000	35000	85-200	475	195	85	64	10.5	420	220	325	156	M20	50	140	

■ = Unless any material is specified in the order, it is defined with the calculation/order.

<sup>1)</sup> Maximum torque of the coupling T<sub>K max</sub> = rated torque of the coupling T<sub>KN</sub> x 2. For selection please see page 14 et seqq.

Ordering example:	ROTEX® 38	GJL	92 ShA	1a	Ø45	1	Ø25
	Coupling size	Material	Spider hardness	Component	Finish bore	Component	Finish bore



For legend of pictogram please refer to flapper on the cover

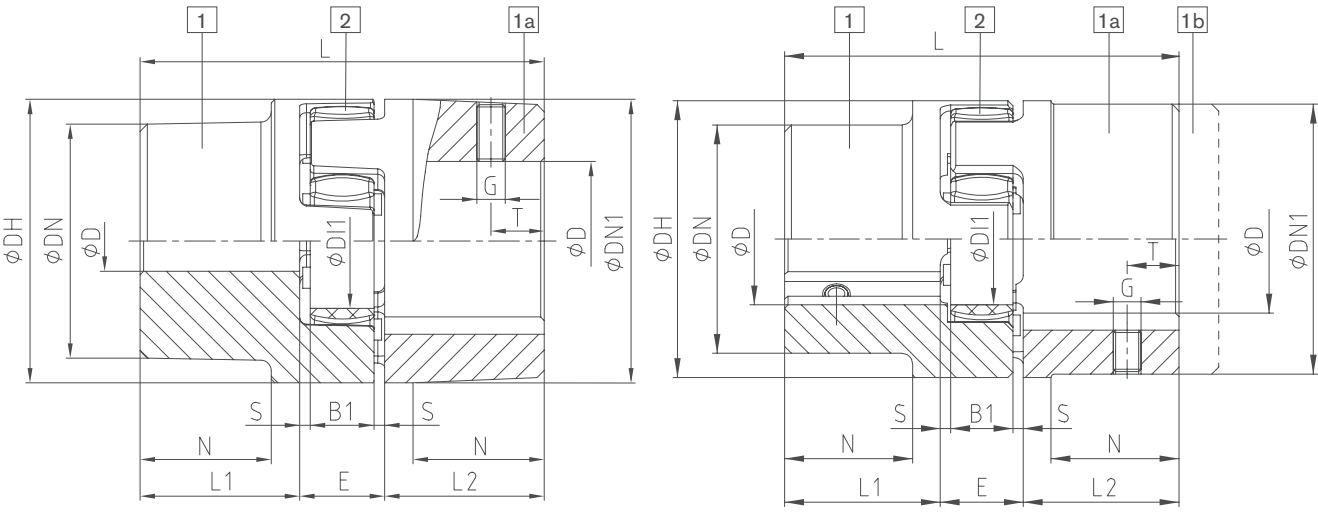


**ROTEX® with CDP coating <sup>1)</sup>**

Size	Component	Spider (component 2) Rated torque [Nm]			Finish bore D (min. - max.)	Dimensions [mm]												
		92 ShA	98 ShA	64 ShD		General										Setscrew		
						L	L1, L2	E	B1	S	DH	DI1	DN	N	G	T	T <sub>A</sub> [Nm]	
19	1a	10	17	21	0-25	66	25	16	12	2	40	18	40	-	M5	10	2	
24	1a	35	60	75	0-35	78	30	18	14	2	55	27	55	-	M5	10	2	
28	1a	95	160	200	0-40	90	35	20	15	2.5	65	30	65	-	M8	15	10	
38	1	190	325	405	0-48	114	45	24	18	3	80	38	70	27	M8	15	10	
42	1	265	450	560	0-55	126	50	26	20	3	95	46	85	28	M8	20	10	
48	1	310	525	655	0-62	140	56	28	21	3.5	105	51	95	32	M8	20	10	
55	1	410	685	825	0-74	160	65	30	22	4	120	60	110	37	M10	20	17	
65	1	625	940	1175	0-80	185	75	35	26	4.5	135	68	115	47	M10	20	17	
75	1	1280	1920	2400	0-95	210	85	40	30	5	160	80	135	53	M10	25	17	
90	1	2400	3600	4500	0-110	245	100	45	34	5.5	200	100	160	62	M12	25	40	
100	1	3300	4950	6185	0-115	270	110	50	38	6	225	113	180	89	M12	30	40	
110	1	4800	7200	9000	0-125	295	120	55	42	6.5	255	127	200	96	M16	35	80	
125	1	6650	10000	12500	60-145	340	140	60	46	7	290	147	230	112	M16	40	80	

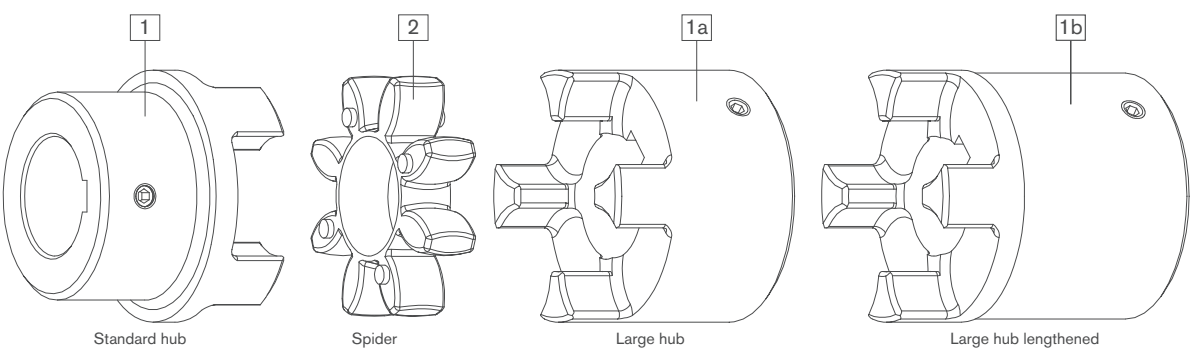
<sup>1)</sup> Corrosion protection class acc. to DIN EN ISO 12944: Min. C4, heavy-long

**Components**



AI-D (thread opposite the keyway)

GJL / GJS (thread on the keyway)



Standard hub

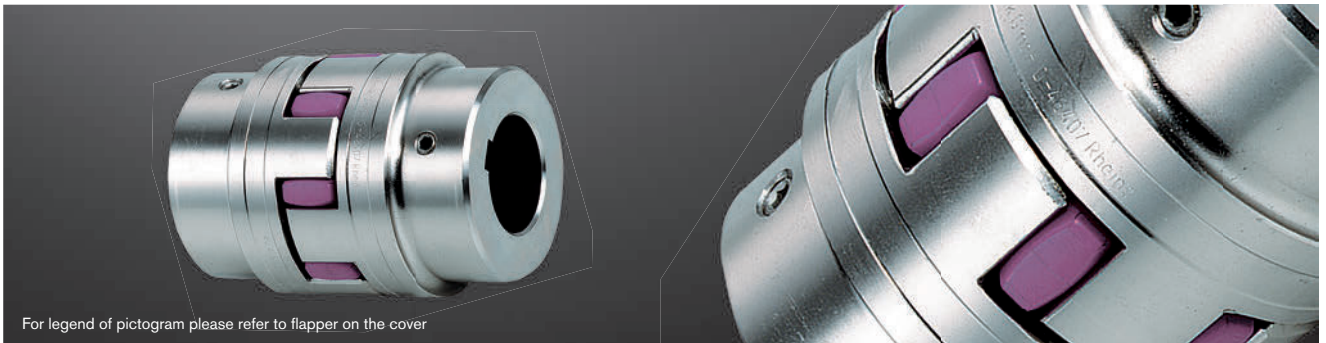
Spider

Large hub

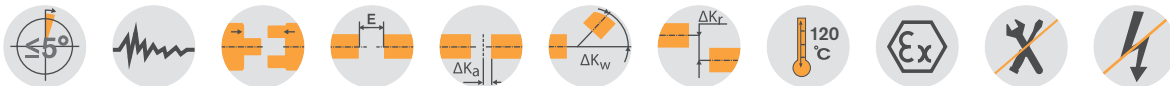
Large hub lengthened

# ROTEX® Standard Flexible jaw couplings

## Material steel/stainless steel



For legend of pictogram please refer to flapper on the cover



### ROTEX® Steel (St)

Size	Component	Spider <sup>1)</sup> (component 2) Rated torque [Nm]			Finish bore D (min. - max.)	Dimensions [mm]										Setscrew		
		92 ShA	98 ShA	64 ShD		General										G	T	T <sub>A</sub> [Nm]
						L	L1, L2	E	B1	S	DH	DI1	DN	N				
14	1a	7.5	12.5	16	0-16	35	11	13	10	1.5	30	10	30	-	M4	5	1.5	
	50					18.5												
19	1a	10	17	21	0-25	66	25	16	12	2	40	18	40	-	M5	10	2	
	90					37												
24	1a	35	60	75	0-35	78	30	18	14	2	55	27	55	-	M5	10	2	
	118					50												
28	1a	95	160	200	0-40	90	35	20	15	2.5	65	30	65	-	M8	15	10	
	140					60												
38	1	190	325	405	0-48	114	45	24	18	3	80	38	70	27	M8	15	10	
	164					70	80						-					
42	1	265	450	560	0-55	126	50	26	20	3	95	46	85	28	M8	20	10	
	176					75	95						-					
48	1	310	525	655	0-62	140	56	28	21	3.5	105	51	95	32	M8	20	10	
	188					80	105						-					
55	1	410	685	825	0-75	160	65	30	22	4	120	60	110	37	M10	20	17	
	210					90	120						-					
65	1	625	940	1175	0-80	185	75	35	26	4.5	135	68	115	47	M10	20	17	
	235					100	135						-					
75	1	1280	1920	2400	0-95	210	85	40	30	5	160	80	135	53	M10	25	17	
	260					110	160						-					
90	1	2400	3600	4500	0-110	245	100	45	34	5.5	200	100	160	62	M12	30	40	
	295					125	200						-					
100	1	3300	4950	6185	0-115	270	110	50	38	6	225	113	180	89	M12	30	40	
110	1	4800	7200	9000	0-125	295	120	55	42	6.5	255	127	200	96	M16	35	80	
125	1	6650	10000	12500	60-145	340	140	60	46	7	290	147	230	112	M16	40	80	
140	1	8550	12800	16000	60-160	375	155	65	50	7.5	320	165	255	124	M20	45	140	
160	1	12800	19200	24000	80-185	425	175	75	57	9	370	190	290	140	M20	50	140	
180	1	18650	28000	35000	85-200	475	195	85	64	10.5	420	220	325	156	M20	50	140	

■ = Unless any material is specified in the order, it is defined with the calculation/order.

<sup>1)</sup> Maximum torque of the coupling T<sub>K max</sub> = rated torque of the coupling T<sub>KN</sub> x 2. For selection please see page 14 et seqq.

### ROTEX® Stainless steel

Size	Material	Spider (component 2) Rated torque [Nm]			Finish bore D (min. - max.)	Dimensions [mm]										Setscrew		
		92 ShA	98 ShA	64 ShD		General										G	T	T <sub>A</sub> [Nm]
						L	L1, L2	E	B1	S	DH	DI1	DN	N				
19	1.4305	10	17	21	0-25	66	25	16	12	2	40	18	40	-	M5	10	2	
24	1.4571	35	60	75	0-35	78	30	18	14	2	55	27	55	-	M5	10	2	
28	1.4305	95	160	200	0-40	90	35	20	15	2.5	65	30	65	-	M8	15	10	
38	1.4571	190	325	405	0-48	114	45	24	18	3	80	38	80	27	M8	15	10	
42	1.4305	265	450	560	0-55	126	50	26	20	3	95	46	95	28	M8	20	10	
48	1.4571	310	525	655	0-62	140	56	28	21	3.5	105	51	105	32	M8	20	10	

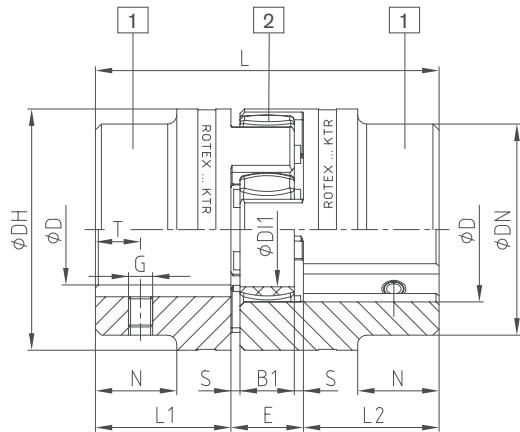
Ordering  
example:

ROTEX® 38	St	92 ShA	1 - Ø45	1 - Ø25
Coupling size	Material	Spider hardness	Component Finish bore	Component Finish bore

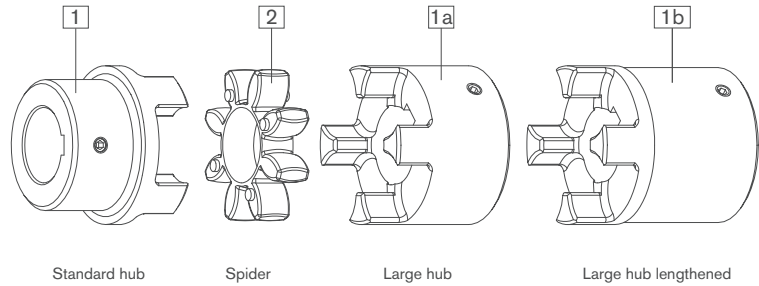
# ROTEX® Flexible jaw couplings

## DIN EN 10204 - 3.1 and 3.2 material test certificate

### Components



Steel (thread on the keyway)



ROTEX® Coupling hubs with test certificate <sup>1)</sup>				
Size	Component	Material <sup>2)</sup>	Inspection certificate acc. to DIN EN 10204	Notch impact strength
19	1a	S355 <sup>2)</sup>	3.1	>=27 J
24	1a	S355 <sup>2)</sup>	3.1	>=27 J
28	1a	S355 <sup>2)</sup>	3.1	>=27 J
38	1a	S355 <sup>2)</sup>	3.1	>=27 J
42	1	S355 <sup>2)</sup>	3.1	>=27 J
48	1	S355 <sup>2)</sup>	3.1	>=27 J
55	1	S355 <sup>2)</sup>	3.1	>=27 J
65	1	S355 <sup>2)</sup>	3.1	>=27 J
75	1	S355 <sup>2)</sup>	3.1/3.2	>=27 J
		42CrMoS4+QT <sup>3)</sup>		
90	1	S355 <sup>2)</sup>	3.1/3.2	>=27 J
		42CrMoS4+QT <sup>3)</sup>		
100	1	S355 <sup>2)</sup>	3.1/3.2	>=27 J
		42CrMoS4+QT <sup>3)</sup>		
110	1	S355 <sup>2)</sup>	3.1/3.2	>=27 J
		42CrMoS4+QT <sup>3)</sup>		
120	1	S355 <sup>2)</sup>	3.1/3.2	>=27 J
		42CrMoS4+QT <sup>3)</sup>		
140	1	S355 <sup>2)</sup>	3.1/3.2	>=27 J
		42CrMoS4+QT <sup>3)</sup>		
160	1	S355 <sup>2)</sup>	3.1/3.2	>=27 J
		42CrMoS4+QT <sup>3)</sup>		
180	1	S355 <sup>2)</sup>	3.1/3.2	>=27 J
		42CrMoS4+QT <sup>3)</sup>		

<sup>1)</sup> S355 suitable for feather key connections, 42CrMoS4+QT for oil press-fits

<sup>2)</sup> Notch impact strength with -40 °C

<sup>3)</sup> Notch impact strength with -20 °C

### Marine programme:

Hub materials S355J2+N and 42CrMo4+QT acc. to DIN EN 10204 - 3.1+3.2, size 75 - 180 available from stock.



### UL



#### Use in fire pumps

ROTEX® couplings comply with the specifications of NFPA 20 standard for the installation of stationary pumps for fire protection and due to completion of the endurance tests required they also comply with the specifications of UL 448A, flexible couplings and connection shafts for stationary fire pumps.

Sizes available:



ROTEX® UL Listed								
Size	Component	Material	Spider (component 2) Rated torque [Nm]	Dimensions [mm]				
				Finish bore D (min. - max.)	L	L1, L2	E	DH
42	1	St	265	18-55	126	50	26	95
55	1	St	410	24-74	160	65	30	120
65	1	St	625	24-80	185	75	35	135
75	1	St	1280	24-95	210	85	40	160
90	1	St	2400	30-110	245	100	45	200

\* for complete dimensions see table on page 40

# ROTEX® Flexible jaw couplings

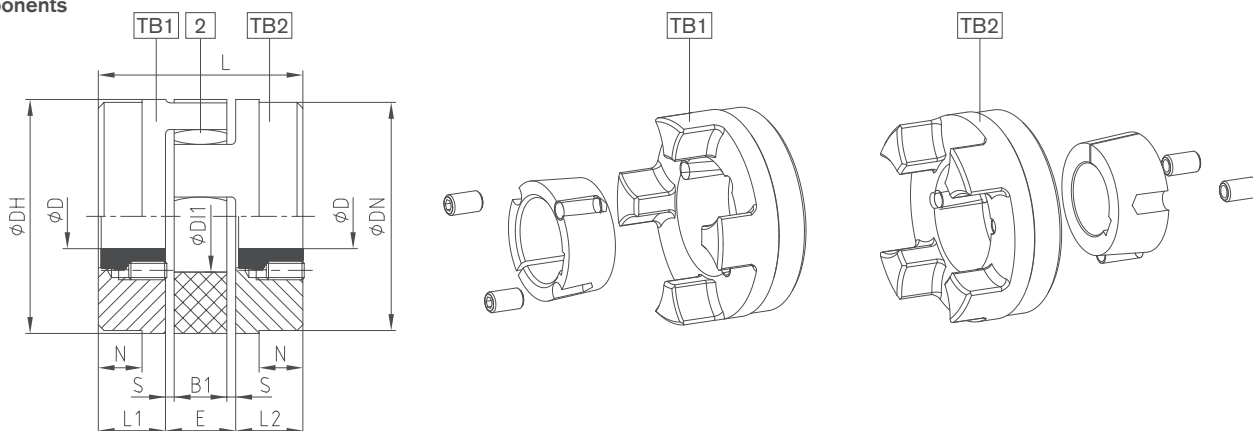
## Taper clamping sleeve



For legend of pictogram please refer to flapper on the cover



### Components



### ROTEX® Shaft coupling for taper clamping sleeve

Size	Taper clamping sleeve	Dimensions [mm]									Fastening screws for taper clamping sleeves				
		L1, L2	E	B1	S	L	N	DH	DN	D1	Size [Inch] <sup>1)</sup>	Length [mm]	Number	T <sub>A</sub> [Nm]	
24	1008	22	18	14	2.0	62	–	55	55	27	1/4"	13	2	5.7	
28	1108	23	20	15	2.5	66	–	65	65	30	1/4"	13	2	5.7	
38	1108	23	24	18	3.0	70	15	80	78	38	1/4"	13	2	5.7	
42	1610	26	26	20	3.0	78	16	95	94	46	3/8"	16	2	20	
48	1615	39	28	21	3.5	106	28	105	104	51	3/8"	16	2	20	
55	2012	33	30	22	4.0	96	20	120	118	60	7/16"	22	2	31	
65	2012	33	35	26	4.5	101	19	135	115	68	7/16"	22	2	31	
75	2517	52	40	30	5.0	144	36	160	158	80	1/2"	25	2	49	
	5/8"										32	2	92		
90	3020	52	45	34	5.5	149	33	200	160	100	3/8"	32	2	92	
100	3535	90	50	38	6.0	230	69	225	180	113	1/2"	49	3	113	
125	4545	114	60	46	7.0	288	86	290	230	147	3/4"	49	3	192	

### Taper clamping sleeve

Size	Summary of bore dimensions D [mm], H7 fit - feather keyway acc. to DIN 6885 sheet 1																		
1008	Ø10	Ø11	Ø12	Ø14	Ø16	Ø18	Ø19	Ø20	Ø22	Ø24	Ø25								
1108	Ø10	Ø11	Ø12	Ø14	Ø16	Ø18	Ø19	Ø20	Ø22	Ø24	Ø25	Ø28 <sup>2)</sup>							
1610	Ø14	Ø16	Ø18	Ø19	Ø20	Ø22	Ø24	Ø25	Ø28	Ø30	Ø32	Ø35	Ø38	Ø40	Ø42 <sup>2)</sup>				
1615	Ø14	Ø16	Ø18	Ø19	Ø20	Ø22	Ø24	Ø25	Ø28	Ø30	Ø32	Ø35	Ø38	Ø40	Ø42 <sup>2)</sup>				
2012	Ø14	Ø16	Ø18	Ø19	Ø20	Ø22	Ø24	Ø25	Ø28	Ø30	Ø32	Ø35	Ø38	Ø40	Ø42	Ø45	Ø48	Ø50	
2517	Ø16	Ø18	Ø19	Ø20	Ø22	Ø24	Ø25	Ø28	Ø30	Ø32	Ø35	Ø38	Ø40	Ø42	Ø45	Ø48	Ø50	Ø55	Ø60
3020	Ø25	Ø28	Ø30	Ø35	Ø38	Ø40	Ø42	Ø45	Ø48	Ø50	Ø55	Ø60	Ø65	Ø70	Ø75				
3535	Ø35	Ø38	Ø40	Ø42	Ø45	Ø48	Ø50	Ø55	Ø60	Ø65	Ø70	Ø75	Ø80	Ø85	Ø90				
4545	Ø55	Ø60	Ø65	Ø70	Ø75	Ø80	Ø85	Ø90	Ø95	Ø100	Ø105	Ø110							

• Available for type TB2 only

<sup>1)</sup> 1. BSW thread

Coupling type TB1/TB2, TB1/TB1 and TB2/TB2 possible.

Please order our separate dimension sheet (M373054).

<sup>2)</sup> Bores with feather keyway (flat design) acc. to DIN 6885 sheet 3

Ordering example:	ROTEX® 38	92 ShA	1108	TB1 - Ø24		TB2 - Ø22	
	Coupling size	Spider hardness	Taper clamping sleeve	Hub type	Finish bore	Hub type	Finish bore

# ROTEX® Flexible jaw couplings

Flexible jaw and pin & bush couplings

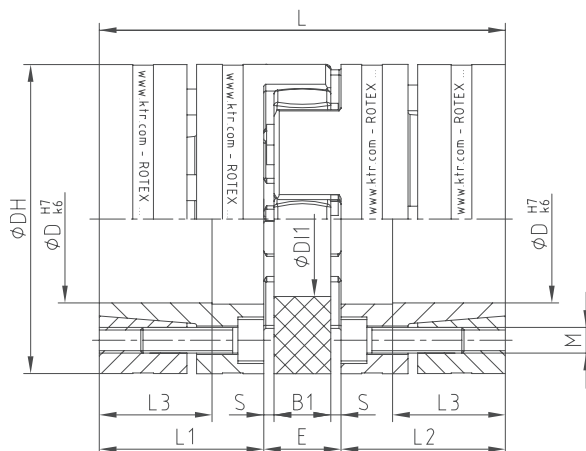
## Clamping ring hubs



For legend of pictogram please refer to flapper on the cover



### Components



Extraction thread M1 between clamping screws.

### Clamping ring hubs steel

Size	Torques [Nm] <sup>1)</sup>				Dimensions [mm]								Clamping screws			Weight per hub with max. bore [kg]	Mass moment of inertia per hub with max. bore [kgm <sup>2</sup> ]	
	92 ShA		98 ShA		DH <sup>2)</sup>	DI1	L	L1, L2	L3	E	B1	S	M	Z = number	T <sub>A</sub> [Nm]			M1
	T <sub>KN</sub>	T <sub>K max</sub>	T <sub>KN</sub>	T <sub>K max</sub>														
19	10.0	20	17	34	40	18	66	25	18	16	12	2.0	M4	6	4.1	M4	0.179	0.44 x 10 <sup>-4</sup>
24	35.0	70	60	120	55	27	78	30	22	18	14	2.0	M5	4	8.5	M5	0.399	1.91 x 10 <sup>-4</sup>
28	95.0	190	160	320	65	30	90	35	27	20	15	2.5	M5	8	8.5	M5	0.592	4.18 x 10 <sup>-4</sup>
38	190.0	380	325	650	80	38	114	45	35	24	18	3.0	M6	8	14	M6	1.225	12.9 x 10 <sup>-4</sup>
42	265	530	450	900	95	46	126	50	35	26	20	3.0	M8	4	35	M8	2.30	31.7 x 10 <sup>-4</sup>
48	310	620	525	1050	105	51	140	56	41	28	21	3.5	M10	4	69	M10	3.08	52.0 x 10 <sup>-4</sup>
55	375	750	685	1370	120	60	160	65	45	30	22	4.0	M10	4	69	M10	4.67	103.0 x 10 <sup>-4</sup>
65	—	—	940	1880	135	68	185	75	55	35	26	4.5	M12	4	120	M12	6.70	191.0 x 10 <sup>-4</sup>
75	—	—	1920	3840	160	80	210	85	63	40	30	5.0	M12	5	120	M12	9.90	396.8 x 10 <sup>-4</sup>
90	—	—	3600	4500	200	104	245	100	75	45	34	5.5	M16	5	295	M16	17.70	1136 x 10 <sup>-4</sup>

### Bore D and the respective transmittable friction torques TR of clamping ring hub in [Nm] <sup>1)</sup>

Size	Ø10	Ø11	Ø14	Ø15	Ø16	Ø19	Ø20	Ø24	Ø25	Ø28	Ø30	Ø32	Ø35	Ø38	Ø40	Ø42	Ø45	Ø48	Ø50	Ø55*	Ø60*	Ø65*	Ø70*	Ø80*	Ø90*	Ø95*	Ø100*	Ø105*
19	27	32	69	84	57	94	110																					
24			70	87	56	97	114	116	133	192																		
28				108	131	207	148	253	285	315	382	330	433	503														
38							208	353	395	439	531	463	603	593	689	793	776											
42									445	495	595	526	678	671	775	718	872	1043	1061									
48										616	704	899	896	1030	962	1160	1379	1222	1543									
55													863	856	991	918	1119	1110	1247	1277	1665	1605	2008					
65															1446	1355	1637	1635	1827	1887	2429	2368	2930					
75																1710	2053	2059	2294	2384	3040	2983	3664	4293				
90																			3845	4249	4794	5858	5900	7036	8047	9247	9575	10845

<sup>1)</sup> For selection see page 14 et seqq.

<sup>2)</sup> ØDH + 2 mm with high speeds for expansion of spider

The transmittable torques of the clamping connection consider the max. fitting tolerance with shaft clearance k6/bore H7, from Ø55 G7/m6. The torque is reduced with bigger fitting tolerance. For the strength calculation of shaft/hollow shaft see KTR standard 45510 on our homepage www.ktr.com.

### Ordering example:

ROTEX® GS 24	98 ShA	6.0 steel	Ø24	6.0 steel	Ø20
Coupling size	Spider hardness	Hub type	Finish bore	Hub type	Finish bore

ROTEX®

POLY-NORM®

POLY

REVOLEX®

# ROTEX® Flexible jaw couplings

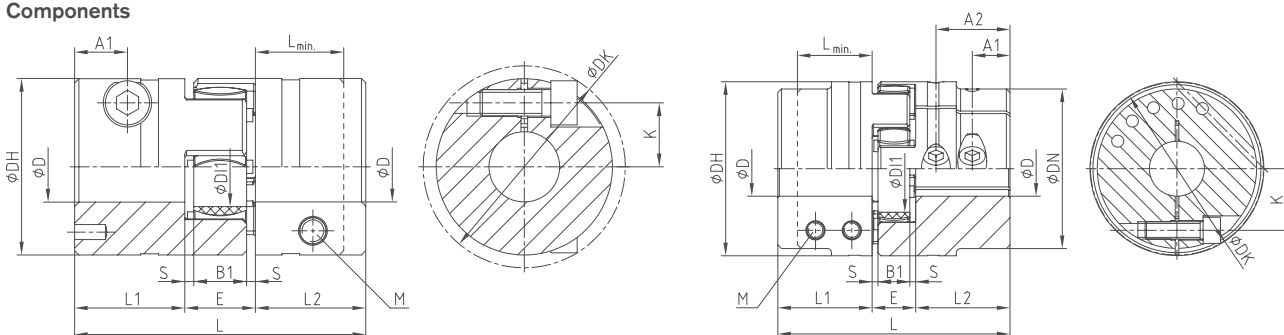
## Clamping hubs



For legend of pictogram please refer to flapper on the cover



### Components



ROTEX® 19 - 28

ROTEX® 38 - 90

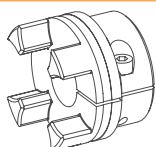
ROTEX® as clamping hubs																
Size	Dimensions [mm]													Screw DIN EN ISO 4762		
	D <sub>max.</sub>	L	L <sub>1</sub> , L <sub>2</sub>	L <sub>min.</sub>	E	B <sub>1</sub>	S	DH	DN	DI <sub>1</sub>	DK	A <sub>1</sub>	A <sub>2</sub>	K	M	T <sub>A</sub> [Nm]
19	20 <sup>1)</sup>	66	25	20	16	12	2.0	40	-	18	46.0	12	—	14.5	M6	14
24	28	78	30	25	18	14	2.0	55	-	27	57.5	12	—	20.0	M6	14
28	38	90	35	30	20	15	2.5	65	-	30	73.0	14 <sup>2)</sup>	—	25.0	M8	35
38	42	114	45	35	24	18	3.0	80	70	38	77.5	19	—	26.5	M8	35
42	50	126	50	42	26	20	3.0	95	85	46	93.5	18 <sup>2)</sup>	—	32.0	M10	69
48	55	140	56	46	28	21	3.5	105	95	51	105.0	21 <sup>2)</sup>	—	36.0	M12	120
55	68	160	65	50	30	22	4.0	120	110	60	119.5	26	51 <sup>2)</sup>	42.5 <sup>3)</sup>	M12	120
65	70	185	75	55	35	26	4.5	135	115	68	132.5	33	61 <sup>2)</sup>	50.0 <sup>3)</sup>	M12	120
75	80	210	85	65	40	30	5.0	160	135	80	158.0	36	68 <sup>2)</sup>	57.0 <sup>3)</sup>	M16	295
90	90	245	100	80	45	34	5.5	200	160	100	197.0	40	80 <sup>2)</sup>	72.0 <sup>3)</sup>	M20	580

Bore D and the respective transmittable friction torques T <sub>R</sub> [Nm] of ROTEX® clamping hubs type 2.0																														
Size	Ø8	Ø10	Ø11	Ø14	Ø15	Ø16	Ø18	Ø19	Ø20	Ø22	Ø24	Ø25	Ø28	Ø30	Ø32	Ø35	Ø38	Ø40	Ø42	Ø45	Ø48	Ø50	Ø55	Ø60	Ø65	Ø70	Ø75	Ø80	Ø85	Ø90
19	44	46	47	51	52	53	55	57	58																					
24		59	60	64	65	66	68	70	71	73	76	77	80																	
28				139	141	144	148	150	152	157	161	163	170	174	178	185	191													
38					163	165	170	172		174	178	183	185	192	196	200	207	213	217	222										
42									291	297	304	308	318	325	332	342	353	360	367	377	387	394								
48									466	476	486	491	506	516	526	542	557	567	577	592	607	618	643							
55														1185	1215	1245	1266	1286	1316	1347	1367	1417	1468	1519						
65																1316	1347	1367	1387	1417	1448	1468	1519	1569	1620	1671				
75																	2869	2926	2983	3022	3117	3213	3309	3404	3500	3595				
90																		5220	5310	5400	5460	5610	5760	5910	6060	6210	6360	6510	6660	

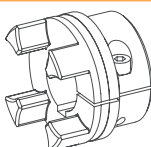
<sup>1)</sup> With type 2.1 D<sub>max.</sub> Ø17 mm

<sup>2)</sup> With reduced hubs dimension A<sub>1</sub> varies or the number of screws changes from 2-off to 1-off

<sup>3)</sup> A<sub>1</sub> and A<sub>2</sub> have a different dimension K



**Type 2.0**  
Clamping hub single slot without feather keyway



**Type 2.1**  
Clamping hub single slot with feather keyway

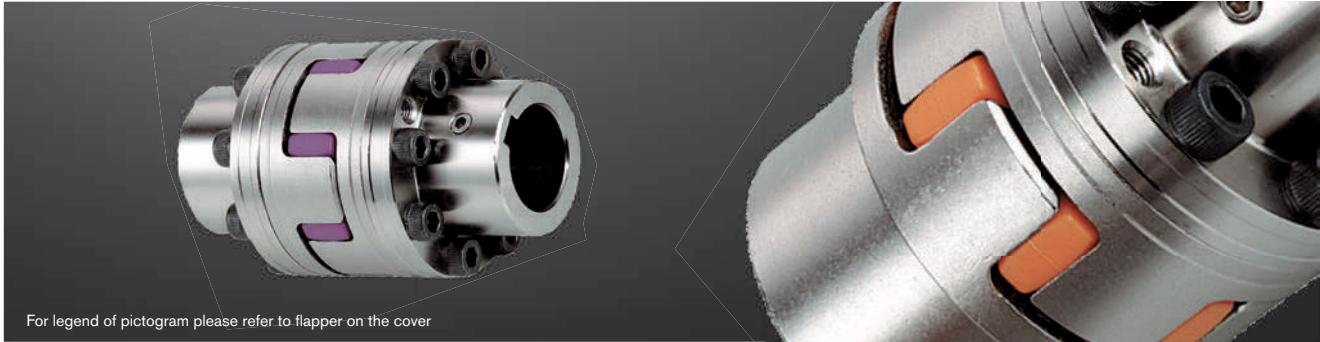


**Type 2.3**  
Clamping hub with spline bore (For a selection of our programme of spline bores see page 36)

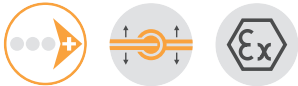
Ordering example:	ROTEX® 24	98 ShA	2.1	Ø24	2.0	Ø20
	Coupling size	Spider hardness	Hub type	Finish bore	Hub type	Finish bore

# ROTEX® AFN and BFN Flexible jaw couplings

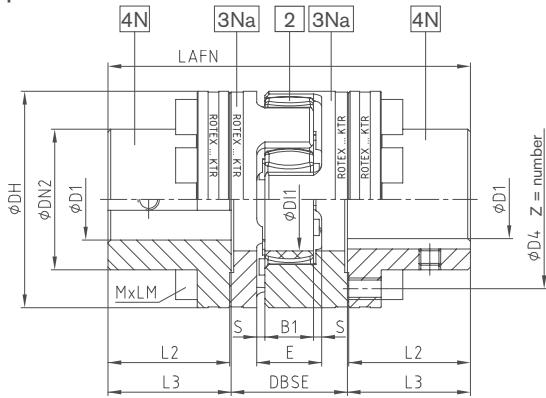
## Flange programme



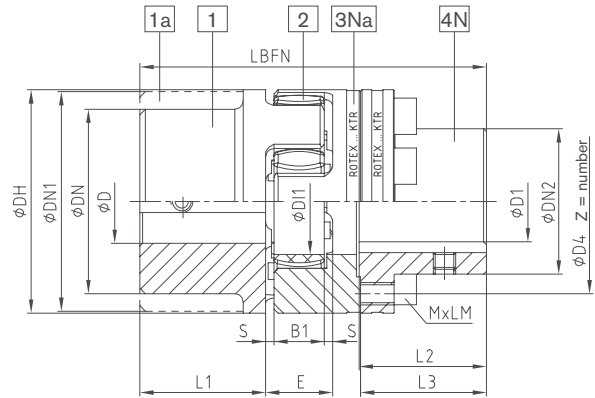
For legend of pictogram please refer to flapper on the cover



### Components



Type AFN



Type BFN

ROTEX® Type AFN and BFN																			
Size	Pilot bore D	Component 4N max. finish bore D1	Dimensions [mm]													Cap screws <sup>3)</sup> DIN EN ISO 4762 - 12.9			
			DH	DN2	D4	DI1	DBSE	L1, L2	E	B1	S	L3	LAFN	LBFN	MxLM	Z	pitch <sup>2)</sup>	T <sub>A</sub> <sup>1)</sup> [Nm]	
24		27	55	36	45	27	33	30	18	15	2.0	30.5	94	86	M5x16	8		10	
28		30	65	42	54	30	39	35	20	15	2.5	35.5	110	100	M6x20	8	8x45°	17	
38		38	80	52	66	38	43	45	24	18	3.0	45.5	134	124	M8x22	8		41	
42		45	95	62	80	46	48	50	26	20	3.0	51.0	150	138	M8x25	12		41	
48		50	105	70	90	51	50	56	28	21	3.5	57.0	164	152	M8x25	12	16x22.5°	41	
55		60	120	80	102	60	60	65	30	22	4.0	66.0	192	176	M10x30	8	8x45°	83	
65		70	135	94	116	68	65	75	35	26	4.5	76.0	217	201	M10x30	12	16x22.5°	83	
75		80	160	108	136	80	75	85	40	30	5.0	86.5	248	229	M12x40	15		120	
90		105	200	142	172	100	82	100	45	34	5.5	101.5	285	265	M16x40	15		295	
100		115	225	158	195	113	97	110	50	38	6.0	111.5	320	295	M16x50	15		295	
110		130	255	178	218	127	103	120	55	42	6.5	122.0	347	321	M20x50	15	20x18°	580	
125		150	290	206	252	147	116	140	60	46	7.0	142.0	400	370	M20x60	15		580	
140		170	320	235	282	165	128	155	65	50	7.5	157.5	443	409	M20x60	15		580	
160		200	370	270	325	190	146	175	75	57	9.0	177.5	501	463	M24x70	15		1000	
180		230	420	315	375	220	159	195	85	64	10.5	198.0	555	515	M24x80	18	24x15°	1000	

<sup>1)</sup> Screw tightening torque T<sub>A</sub> [Nm].  
<sup>2)</sup> Thread in the driving flange between the cams.  
<sup>3)</sup> Coupling is delivered not assembled.

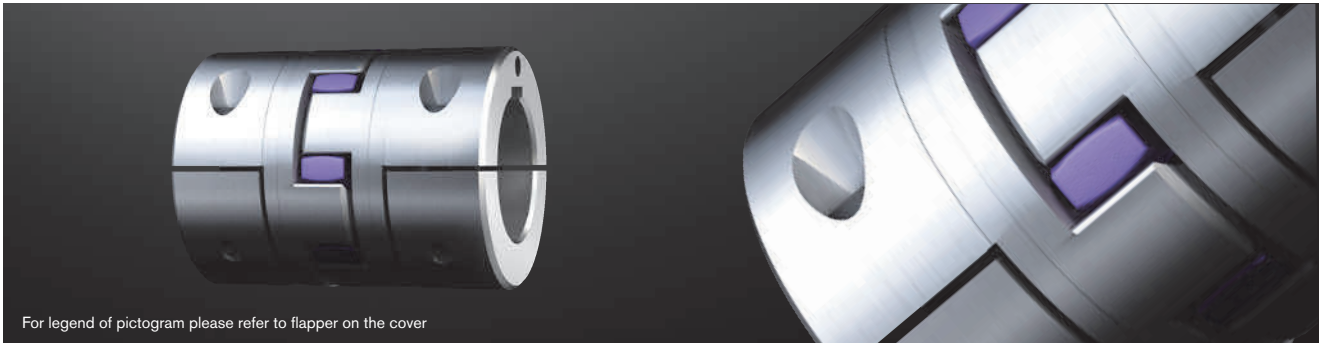
Ordering example:	ROTEX® 24	AFN	92 ShA	4N	Ø38	4N	Ø35
	Coupling size	Type	Spider hardness	Component	Finish bore	Component	Finish bore



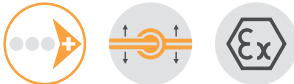
# ROTEX® AH

## Flexible jaw couplings

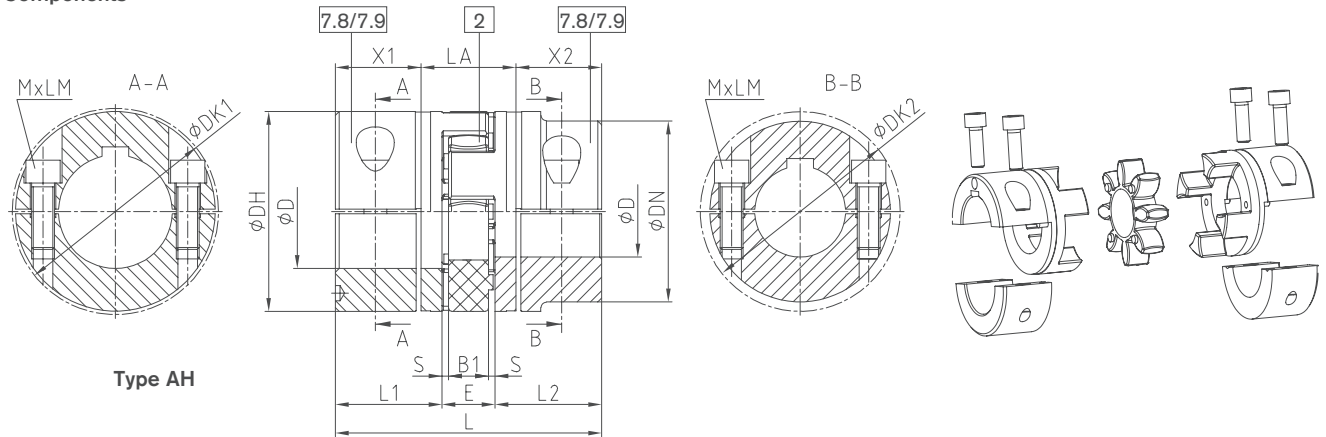
### Drop-out center design coupling



For legend of pictogram please refer to flapper on the cover



#### Components



ROTEX® Type AH														
Size	Max. finish bore D	Dimensions [mm]											Cap screws DIN EN ISO 4762	
		L	L1, L2	E	B1	S	DH	DN	DK1	DK2	X1, X2	LA	MxLM	Tightening torque T <sub>A</sub> [Nm]
19	20	66	25	16	12	2.0	40	—	46	—	17.5	31	M6x16	14
24	28	78	30	18	14	2.0	55	—	57.5	—	22.5	33	M6x20	14
28	38	90	35	20	15	2.5	65	—	73	—	25.5	39	M8x25	35
38	45	114	45	24	18	3.0	80	—	83.5	—	35.5	43	M8x30	35
42	50	126	50	26	20	3.0	95	85	—	93.5	39	48	M10x30	69
	—							97	—	M10x35				
48	55	140	56	28	21	3.5	105	95	—	105	45	50	M12x35	120
	—							108.5	—	M12x40				
55	65	160	65	30	22	4.0	120	110	—	119.5	50	60	M12x40	120
	70							—	122	—			M12x45	
65	70	185	75	35	26	4.5	135	115	—	123.5	60	65	M12x40	120
	80							—	132.5	—			M12x45	
75	80	210	85	40	30	5.0	160	135	—	147.5	67.5	75	M16x50	295
	90							—	158	—			M16x50	
90	90	245	100	45	34	5.5	200	160	—	176	81.5	82	M20x60	580
	110							—	197	—			M20x60	
100 <sup>1)</sup>	110	270	110	50	38	6.0	225	180	—	185.5	84	102	M16x50	295
110 <sup>1)</sup>	120	295	120	55	42	6.5	255	200	—	208	90	115	M20x60	580
125 <sup>1)</sup>	140	340	140	60	46	7.0	290	230	—	242.5	105	130	M24x70	1000

#### CAUTION:

With maximum bore the feather keyways are offset to each other by approx. 5°  
Hub material up to size 90: steel, from size 100: GJS

7.8 = Half shell clamping hub without feather keyway max. circumferential speed of v = 35 m/s.

From a circumferential speed of v = 25 m/s the frictional torque of shaft/hub has to be reviewed. Please consult with KTR.

7.9 = Half shell clamping hub with feather keyway max. circumferential speed of v = 35 m/s. From a circumferential speed of v = 25 m/s dynamic balancing is required.

Speed: max. circumferential speed of 25 m/s on the outside diameter DH of the coupling

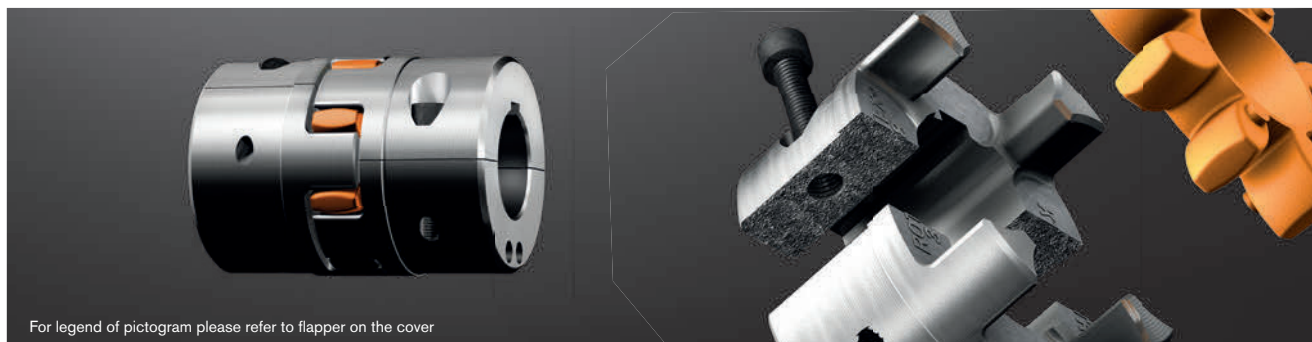
<sup>1)</sup> From size 100: 4 clamping screws for each clamping hub

Ordering example:	ROTEX® 38	AH	98 ShA	7.8	Ø38	7.8	Ø30
	Coupling size	Type	Spider hardness	Hub type	Finish bore	Hub type	Finish bore

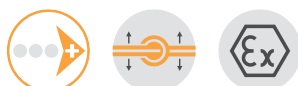


Landing page

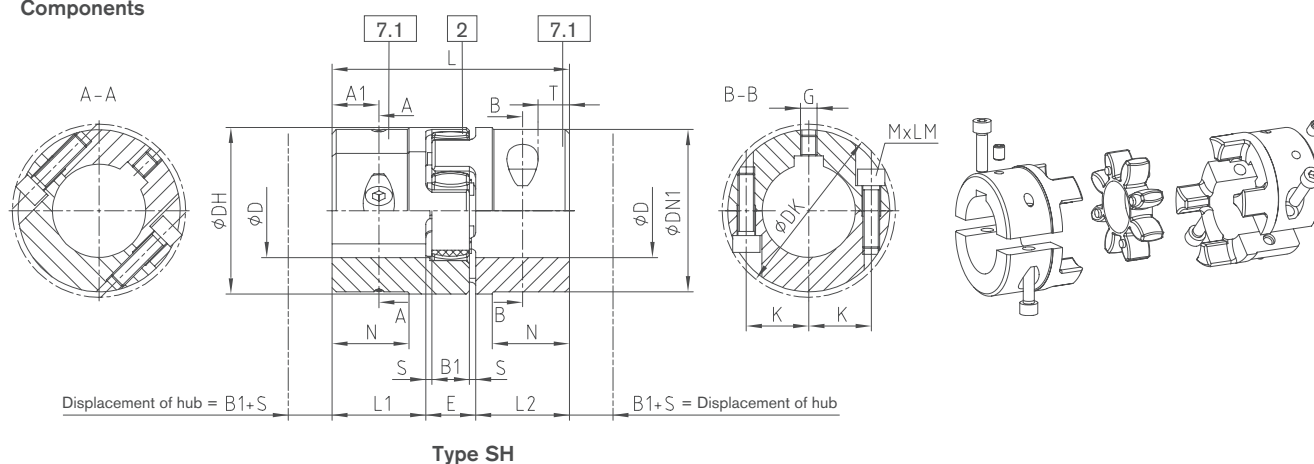
### Drop-out center design coupling with SPLIT hubs



For legend of pictogram please refer to flapper on the cover



#### Components



ROTEX® Type SH Powder metal steel (Sint)																	
Size	Finish bore D		Dimensions [mm]													Cap screws DIN EN ISO 4762	
	Min.	Max.	L	L1, L2	E	B1	S	DH	DN1	DK	N	K	A1	T	G	MxLM	Tightening torque $T_A$ [Nm]
24	0	24	78	30	18	14	2.0	55	-	57.5	-	20	15	10	M5	M6x20	14
28	0	38	90	35	20	15	2.5	65	-	73	-	25	17.5	15	M8	M8x25	34

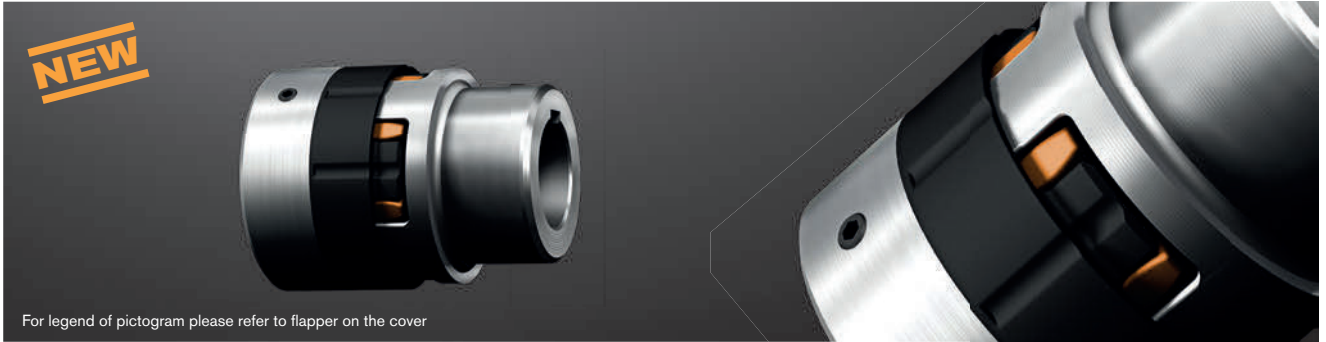
ROTEX® Type SH Cast iron (GJL)																			
Size	Finish bore D		Dimensions [mm]													Cap screws DIN EN ISO 4762			
	Min.	Max.	L	L1, L2	E	B1	S	DH	DN1	DK	N	K	A1	T	G	MxLM	Tightening torque $T_A$ [Nm]		
38	24	45	114	45	24	18	3.0	80	78	83.5	37	30	22.5	15		M8x30	34		
42	24	55	126	50	26	20	3.0	95	94	97	40	30	25		M8	M10x35	67		
48	24	60	140	56	28	21	3.5	105	104	108.5	45	35	28			M12x40	115		
55	24	70	160	65	30	22	4.0	120	118	122	52	40	32.5	20			M12x45	115	
	28	70							115	123.5									61
65	70	80	185	75	35	26	4.5	135	135	132.5	69	51	57	42.5	25		M10	M12x45	115
	40	80							135	147									
75	80	90	210	85	40	30	5.0	160	160	158	81	60	72	50	30		M12	M20x60	560
	40	90							160	176									
90	40	90	245	100	45	34	5.5	200	160	176	81	60	72	50	30		M12	M20x60	560
	90	110							200	197									

7.1 = SPLIT hub with feather keyway

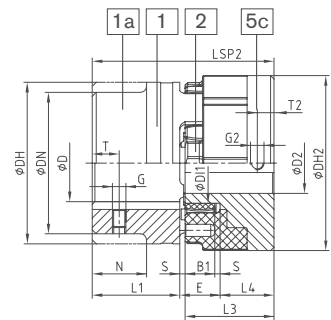
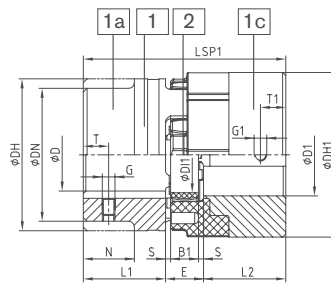
Ordering example:	ROTEX® 38	SH	98 ShA	7.1	Ø38	7.1	Ø30
	Coupling size	Type	Spider hardness	Hub type	Finish bore	Hub type	Finish bore

# ROTEX® SP GN and EN Flexible jaw couplings

## Single-cardanic shaft coupling (Non Sparking)



### Components



ROTEX® Standard (St) <sup>3)</sup>			ROTEX® SP Type GN							ROTEX® SP Type EN								
Size	Spider <sup>1)</sup> (component 2) Rated torque [Nm]	Component steel (St)	Component SP	Dimensions [mm] ROTEX® SP component 1c							Component SP	Dimensions [mm] ROTEX® SP component 5c						
				Max. D1 <sup>2)</sup>	L2	DH1	G1	T1	LSP1	Max. D3 <sup>2)</sup>		L3	L4	DH2	G2	T2	LSP2	
24	35	1a	1c	28	30	61	M5	10	78	5c	19	36	22	61	M5	6	70	
		98							90								81	
28	95	1a	1c	32	35	72	M8	15	90	5c	22	42	26	72	M8	7	106	
		115							114								99	
38	190	1	1c	42	45	87	M8	15	139	5c	28	50	30	87	M8	7	124	
		126							151								110	
42	265	1	1c	48	50	103	M8	20	140	5c	35	56	34	103	M8	10	135	
		151							140								120	
48	310	1	1c	55	56	114	M8	20	164	5c	40	60	36	114	M8	10	124	
		160							185								135	
55	410	1	1c	65	65	130	M10	20	185	5c	45	66	40	130	M10	17	160	
		185							210								154	
65	625	1	1c	75	75	146	M10	20	210	5c	55	75	44	146	M10	17	179	
		185							179									

ROTEX® Standard (GJL) <sup>4)</sup>			ROTEX® SP Type GN							ROTEX® SP Type EN								
Size	Spider <sup>1)</sup> (component 2) Rated torque [Nm]	Component cast iron (GJL)	Component SP	Dimensions [mm] ROTEX® SP component 1c							Component SP	Dimensions [mm] ROTEX® SP component 5c						
				Max. D1 <sup>2)</sup>	L2	DH1	G1	T1	LSP1	Max. D3 <sup>2)</sup>		L3	L4	DH2	G2	T2	LSP2	
38	190	1	1c	42	45	87	M8	15	114	5c	28	50	30	87	M8	7	99	
		1a							139								124	
		1b							139								124	
42	265	1	1c	48	50	103	M8	20	126	5c	35	56	34	103	M8	10	110	
		1a							151								135	
		1b							151								135	
48	310	1	1c	55	56	114	M8	20	140	5c	40	60	36	114	M8	10	120	
		1a							164								144	
		1b							164								144	
55	410	1	1c	65	65	130	M10	20	160	5c	45	66	40	130	M10	17	135	
		1a							160								135	
65	625	1	1c	75	75	146	M10	20	185	5c	55	75	44	146	M10	17	154	

<sup>1)</sup> Maximum torque of the coupling  $T_{K \max}$  = rated torque of the coupling  $T_{KN} \times 2$ . Transmittable torque according to 92 ShA.

<sup>2)</sup> Bores H7 with keyway to DIN 6885 sheet 1 [JS9] and setscrew

<sup>3)</sup> For dimensions of standard ROTEX® hubs (St) 1, 1a, 1b see catalogue on page 40.

<sup>4)</sup> For dimensions of standard ROTEX® hubs (GJL) 1, 1a, 1b see catalogue on page 38.

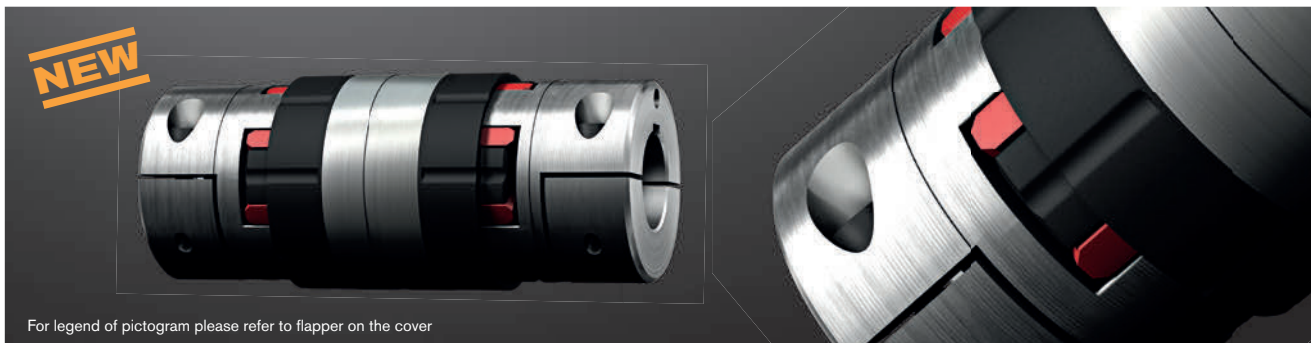
■ = Available from stock

Ordering example:	ROTEX® SP 38	GJL	92 ShA	1a	Ø45	1c	Ø42
	Coupling size	Material Components 1, 1a, 1b	Spider hardness	Component	Finish bore	Component	Finish bore

# ROTEX® SP ZS-DKM-C

## Flexible jaw couplings

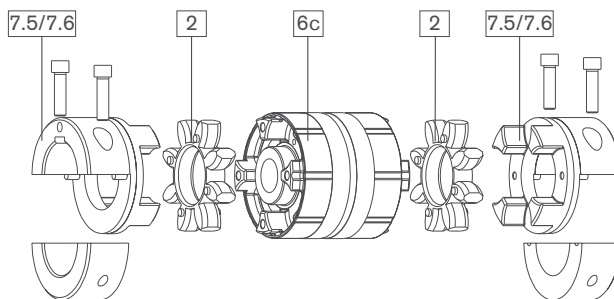
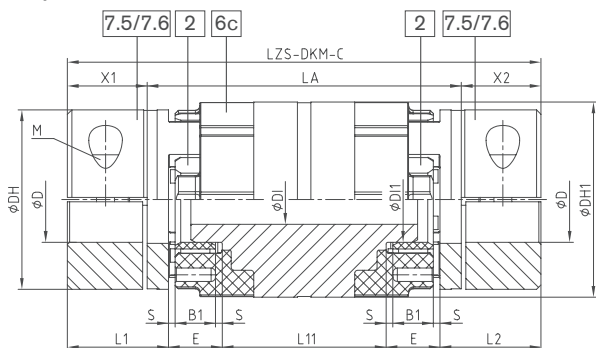
### Double-cardanic shaft coupling (Non Sparking)



For legend of pictogram please refer to flapper on the cover

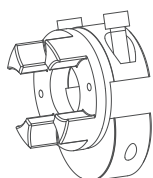


#### Components



#### ROTEX® SP Type ZS-DKM-C

Size	Drop-out center length LA	Spider <sup>1)</sup> (component 2) Rated torque [Nm]	Dimensions [mm]												Dimensions [mm]	
			General component 7.5/7.6 steel												ROTEX® SP Type 6c Al-H <sup>3)</sup>	
			Max. finish bore D <sup>2)</sup>	LZS-DKM-C	L1, L2	X1, X2	E	B1	S	DH	DH1	DI1	M	T <sub>A</sub> [Nm]	DI	L11
24	100	35	28	145	30	22.5	18	14	2.0	55	61	27	M6	14	14	49
	140		185	89												
28	100	95	38	151	35	25.5	20	15	2.5	65	72	30	M8	35	16	41
	140		191	81												
38	100	190	45	171	45	35.5	24	18	3.0	80	87	38	M8	35	22	33
	140		211	73												
42	100	265	55	178	50	39	26	20	3.0	95	103	46	M10	69	30	26
	140		218	66												
48	140	310	60	230	56	45	28	21	3.5	105	114	51	M12	120	35	62
	140		240	50												
55	180	410	70	280	65	50	30	22	4.0	120	130	60	M12	120	35	90
	200		300	110												
65	140	625	80	260	75	60	35	26	4.5	135	146	68	M12	120	48	40
	180		300	50												



Type 7.5 clamping hub type DH without feather keyway for double-cardanic connection

Type 7.6 clamping hub type DH with feather keyway for double-cardanic connection

<sup>1)</sup> Maximum torque of the coupling  $T_{K \max}$  = rated torque of the coupling  $T_{KN} \times 2$ . Transmittable torque according to 92 ShA-GS.

<sup>2)</sup> Hub type 7.5 = without keyway; hub type 7.6 = with keyway acc. to DIN 6685 sheet 1 [JS9]

<sup>3)</sup> Size 42 with drop-out center length L=100 mm made of steel

■ = Available from stock

#### Ordering example:

ROTEX® SP 38	ZS-DKM-C	140	98 ShA-GS	7.5	Ø38	7.5	Ø30
Coupling size	Type	Drop-out center length LA	Spider hardness	Hub type	Finish bore	Hub type	Finish bore

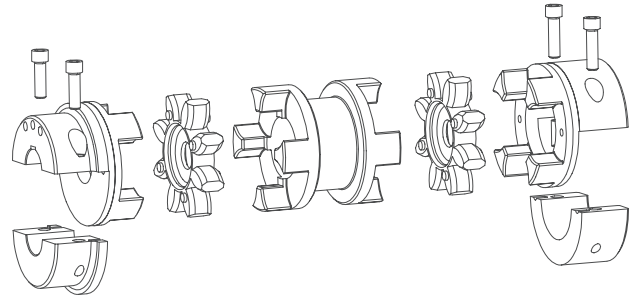
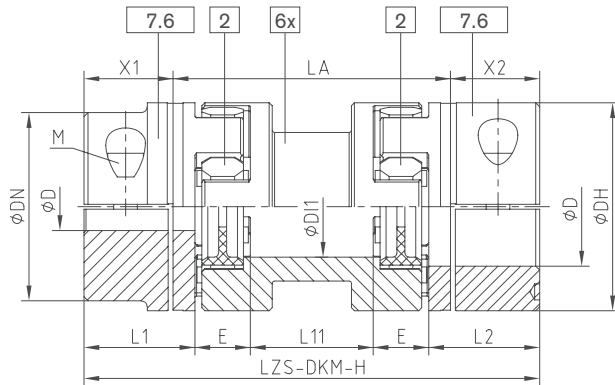
# ROTEX® ZS-DKM-H

## Flexible jaw couplings

### Double-cardanic shaft coupling



For legend of pictogram please refer to flapper on the cover



Type ZS-DKM-H

ROTEX® Type ZS-DKM-H																			
Size	Drop-out center length LA [mm]	Max. finish bore D	Spider <sup>1)</sup> (component 2) TKN [Nm]	Dimensions [mm]							Screws DIN EN ISO 4762 - 12.9			Max. displacements				Weight <sup>2)</sup> [kg]	
				DH	DI1	L1, L2	X1, X2	L11	E	LZS-DKM-H	M	T <sub>A</sub> [Nm]	Axial [mm]	with n = 1500 rpm		with n = 3000 rpm			
														Radial [mm]	Angular [°]	Radial [mm]	Angular [°]		
24	100	28	35	55	27	30	22.5	49	18	145	M6	14	1.4	1.17		0.87		1.40	
	89							185		1.87				1.40					
28	100	38	95	65	30	35	25.5	41	20	151	M8	35	1.5	1.06		0.80		1.90	
	81							191		1.76				1.32					
38	100	45	190	80	38	45	35.5	33	24	171	M8	35	1.8	0.99		0.74		3.90	
	73							211		1.69				1.27					
42	100	55	265	95	46	50	39.0	26	26	178	M10	69	2.0	0.91		0.68		5.10	
	66							218		1.60				1.20					
48	100	60	310	105	51	56	45.0	22	28	190	M12	120	2.1	0.87		0.65		7.10	
	62							230		1.57				1.18					
55	100	70	410	120	60	65	50.0	10	30	200	M12	120	2.2	0.70	1.0	0.52		9.50	
	50							240		1.40				1.05					
	90							280		2.09				1.57					
	110							300		2.44				1.83					
65	140	80	625	135	68	75	60.0	40	35	260	M12	120	2.6	1.31		0.98		16.10	
	80							300		2.00				1.50					
75	140	90	1280	160	80	85	67.5	25	40	275	M16	295	3.0	1.13		0.85		23.60	
	65							315		1.83				1.37					
	85							335		2.19				1.64					
	135							385		3.05				2.29					
90	180	110	2400	200	100	100	81.5	53	45	343	M20	580	3.4	1.71		1.28		48.90	
	123							413		2.93				2.19					
100	250	110	3300	225	105	110	84	98	50	418	M16	295	3.4	2.6	-	-	60		
110	250	120	4800	255	115	120	88	76	55	426	M20	580	3.4	2.3	-	-	90		
125	250	140	6650	290	133	140	105	60	60	460	M24	1000	3.4	1.6	-	-	120		

<sup>1)</sup> Maximum torque of coupling  $T_{K \max} = \text{rated torque of coupling } T_{KN} \times 2$ .

Size 24 to 90 spider type 98 ShA-GS / transmittable torque acc. to 92 ShA-GS.

<sup>2)</sup> Referring to maximum bore / finish bore acc. to ISO fit H7, feather keyway acc. to DIN 6885 sheet 1 - JS9

7.6 = Half shell clamping hub with feather keyway for a double-cardanic connection

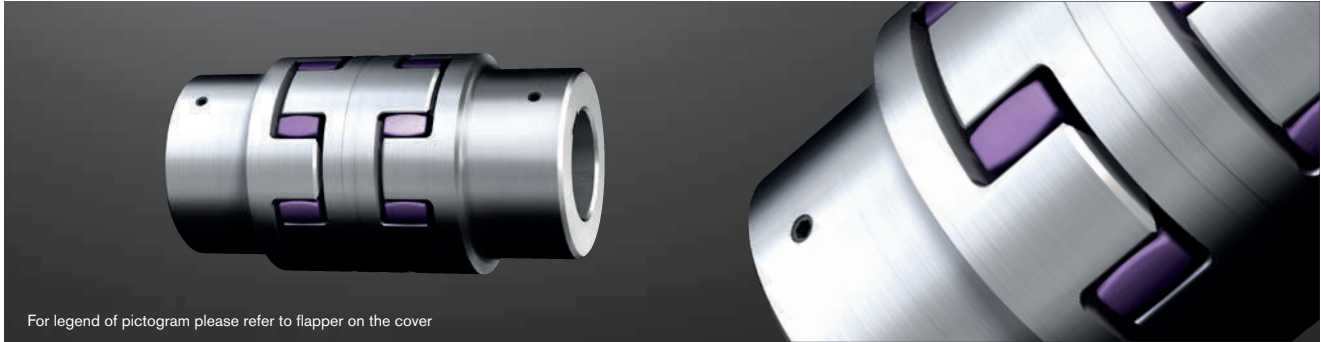
PLEASE NOTE: The standard series can be used with horizontal mounting only. Vertical assembly on request.

Ordering example:	ROTEX® 38	ZS-DKM-H	140	98 ShA-GS	7.6	Ø 38	7.6	Ø30
	Coupling size	Type	Drop-out center length LA	Spider hardness	Hub type	Finish bore	Hub type	Finish bore

# ROTEX® DKM

## Flexible jaw couplings

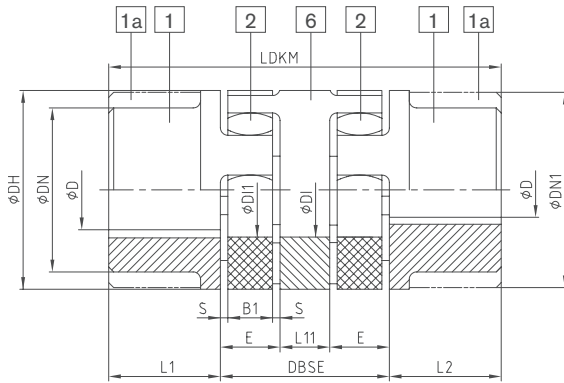
### Double-cardanic shaft coupling



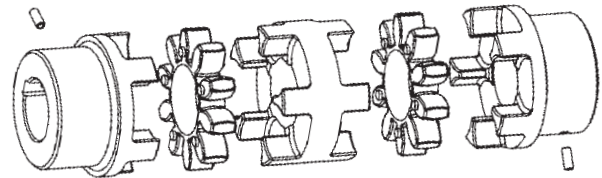
For legend of pictogram please refer to flapper on the cover



#### Components



Type DKM



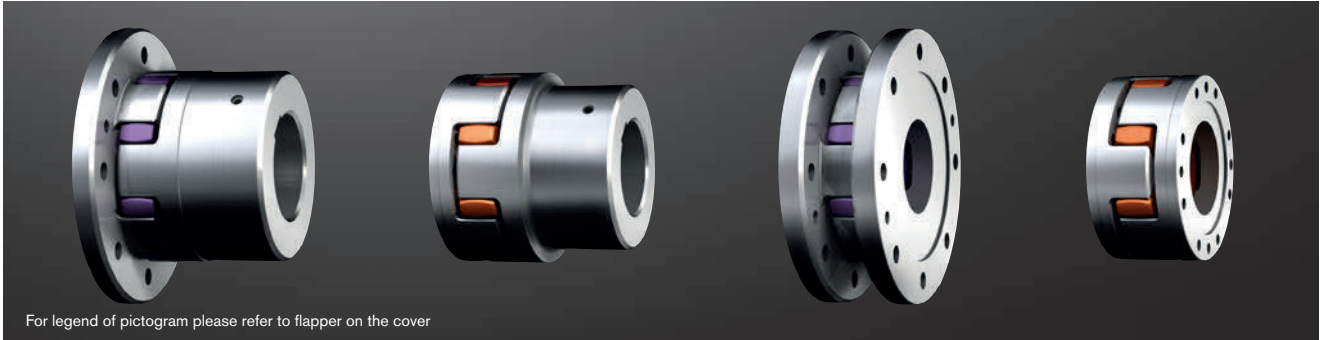
ROTEX® Type DKM																
Size	D, DN, DN1	Spider <sup>1)</sup> (component 2)		Dimensions [mm]									Max. displacements with n = 1500 rpm			
		92 ShA	98 ShA	DH	DI1	L1, L2	L11	DBSE	E	B1	S	LDKM	Radial [mm]	Angular [°]	Axial [mm]	
19	Jaw coupling: page 38 to 40 Stock programme: page 36 and 37	10	17	40	18	25	10	42	16	12	2.0	92	0.45	1.0	+1.2/-1.0	
24		35	60	55	27	30	16	52	18	14	2.0	112	0.59	1.0	+1.4/-1.0	
28		95	160	65	30	35	18	58	20	15	2.5	128	0.66	1.0	+1.5/-1.4	
38		190	325	80	38	45	20	68	24	18	3.0	158	0.77	1.0	+1.8/-1.4	
42		265	450	95	46	50	22	74	26	20	3.0	174	0.84	1.0	+2.0/-2.0	
48		310	525	105	51	56	24	80	28	21	3.5	192	0.91	1.0	+2.1/-2.0	
55		410	685	120	60	65	28	88	30	22	4.0	218	1.01	1.0	+2.2/-2.0	
65		625	940	135	68	75	32	102	35	26	4.5	252	1.17	1.0	+2.6/-2.0	
75		1280	1920	160	80	85	36	116	40	30	5.0	286	1.33	1.0	+3.0/-3.0	
90		2400	3600	200	100	100	40	130	45	34	5.5	330	1.48	1.0	+3.4/-3.0	

<sup>1)</sup> For selection see page 14 et seqq.  
Finish bore according to ISO fit H7, feather keyway according to DIN 6885, sheet 1 [JS9].

Ordering example:	ROTEX® 38	DKM	GJL	98 ShA	1	Ø38	1	Ø30
	Coupling size	Type	Material	Spider hardness	Component	Finish bore	Component	Finish bore

# ROTEX® CF, CFN, DF and DFN Flexible jaw couplings

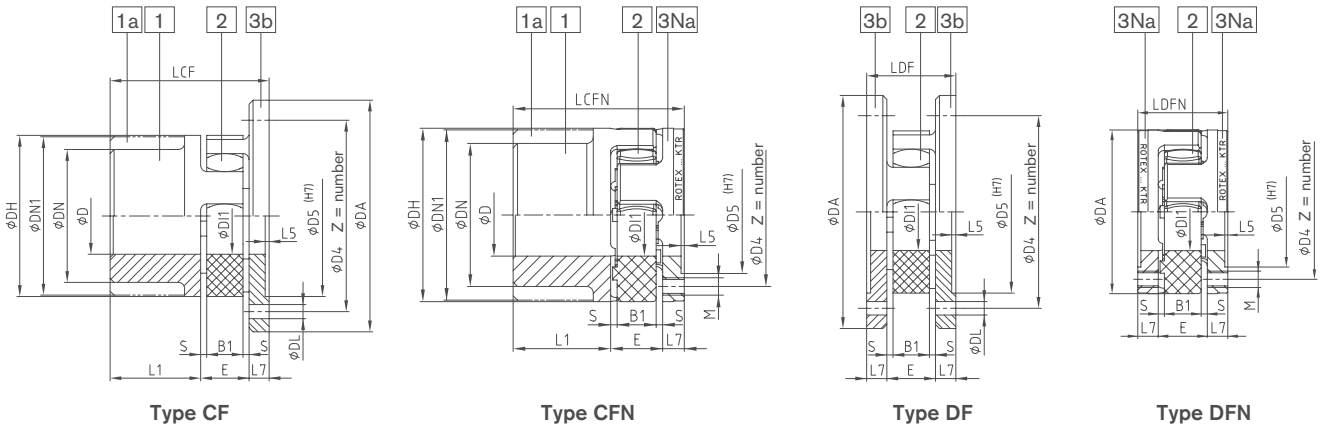
## Flange programme



For legend of pictogram please refer to flapper on the cover



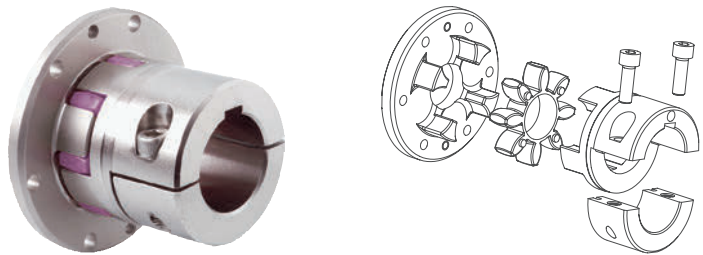
### Components



ROTEX® Type CF, CFN and DF, DFN																							
Size	D, DN, DN1	Dimensions general [mm]							Dimensions CF and DF [mm]							Dimensions CFN and DFN [mm]							
		DH	DI1	L1	E	B1	S	L5	L7	DA	D4	D5	Z	DL	LCF	LDF	D4	D5	M	Z	Pitch	LCFN	LDFN
24		55	27	30	18	14	2.0	1.5	8	80	65	55	5	4.5	56	34	45	36	M5	8		56	34
28		65	30	35	20	15	2.5	1.5	10	100	80	65	6	6.6	65	40	54	44	M6	8	8x45°	65	40
38		80	38	45	24	18	3.0	1.5	10	115	95	80	6	6.6	79	44	66	54	M8	8		79	44
42		95	46	50	26	20	3.0	2.0	12	140	115	95	6	9.0	88	50	80	65	M8	12	16x22.5°	88	50
48		105	51	56	28	21	3.5	2.0	12	150	125	105	8	9.0	96	52	90	75	M8	12		96	52
55		120	60	65	30	22	4.0	2.0	16	175	145	120	8	11.0	111	62	102	84	M10	8	8x45°	111	62
65		135	68	75	35	26	4.5	2.0	16	190	160	135	10	11.0	126	67	116	96	M10	12	16x22.5°	126	67
75		160	80	85	40	30	5.0	2.5	19	215	185	160	10	13.5	144	78	136	112	M12	15		144	78
90		200	100	100	45	34	5.5	3.0	20	260	225	200	12	13.5	165	85	172	145	M16	15		165	85
100		225	113	110	50	38	6.0	4.0	25	285	250	225	12	13.5	185	100	195	165	M16	15		185	100
110		255	127	120	55	42	6.5	4.0	26	330	290	255	12	17.5	201	107	218	180	M20	15	20x18°	201	107
125		290	147	140	60	46	7.0	5.0	30	370	325	290	16	17.5	230	120	252	215	M20	15		230	120
140		320	165	155	65	50	7.5	5.0	34	410	360	320	16	22.0	254	133	282	245	M20	15		254	133
160		370	190	175	75	57	9.0	5.0	38	460	410	370	16	22.0	288	151	325	280	M24	15		288	151
180		420	220	195	85	64	10.5	5.5	40	520	465	420	16	26.0	320	165	375	330	M24	18	24x15°	320	165

For other flange programmes see page 45.

Other types: ROTEX® CF-H  
Flange drop-out center design coupling  
Please order our separate dimension sheet  
(M412069).

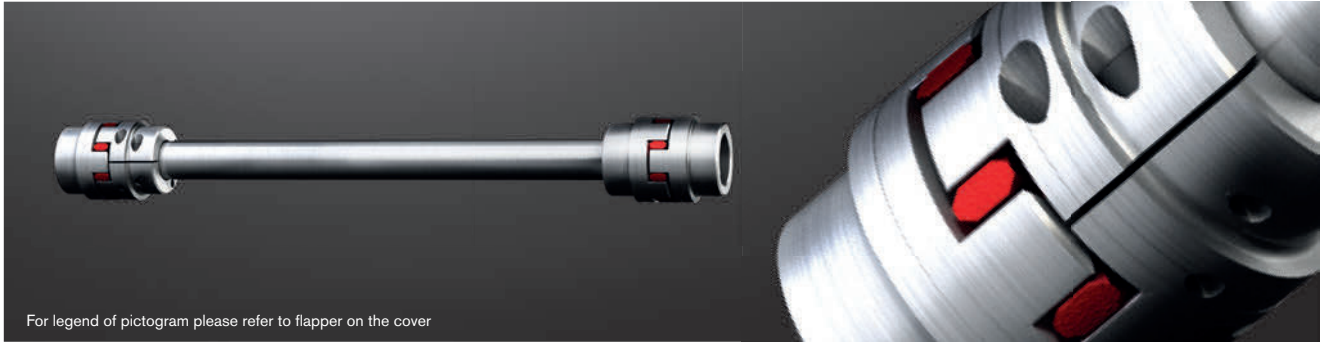


Ordering example:	ROTEX® 38	CF	92 ShA	1	GJL	Ø20
	Coupling size	Type	Spider hardness	Hub side, component	Material	Finish bore

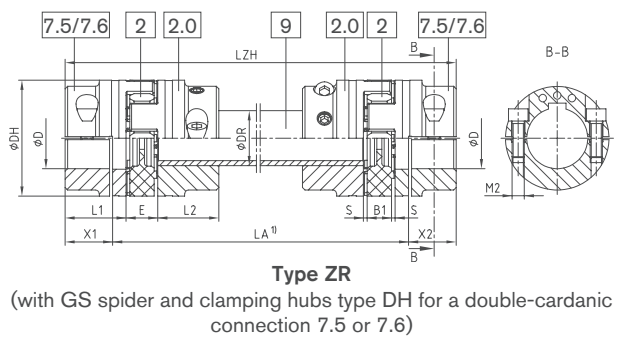
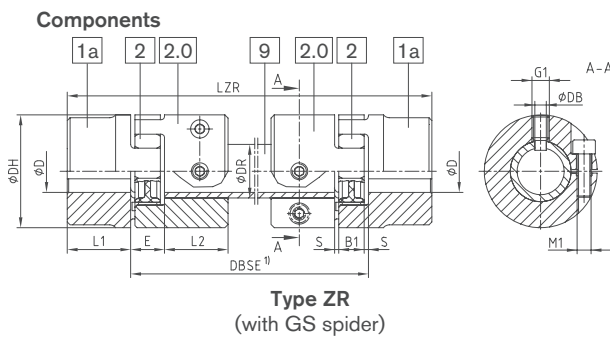
# ROTEX® ZR

## Flexible jaw couplings

### Intermediate shaft programme



For legend of pictogram please refer to flapper on the cover

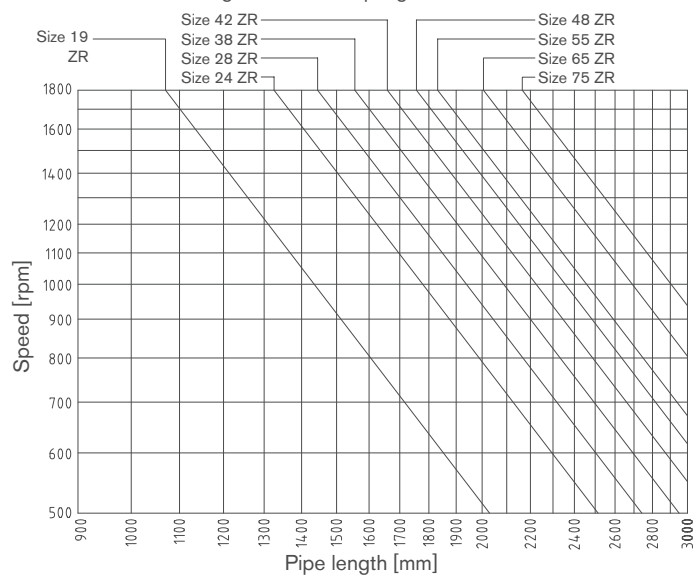


ROTEX® Type ZR																						
Size	Max. finish bore D		Dimensions [mm]							Intermediate pipe Torsional stiffness/m		Clamping screw component 2.0		Clamping screw component 7.5/7.6		LZR, LZH	Min. DBSE	Min. LA	Locking screw G1	Cone bore DB [mm]	Axial displacement [mm]	Angular displacement [degree]
	Component 1a	Component 7.5/7.6	DH	L1, L2	X1, X2	E	B1	S	RA	C <sup>2)</sup> [Nm <sup>2</sup> /rad]	M1	T <sub>A</sub> [Nm]	M2	T <sub>A</sub> [Nm]								
19	25	20	40	25	17.5	16	12	2.0	Ø20x3	954.9	M6	14	M6	10	LZR = DBSE + 2 • L1 LZH = LA + 2 • X1/X2	110	97	M6	4.0	1.2	0.9	
24	35	28	55	30	22.5	18	14	2.0	Ø30x4	4522	M6	14	M6	14		128	111	M8	5.5	1.4	0.9	
28	40	38	65	35	25.5	20	15	2.5	Ø35x4	7611	M8	35	M8	35		145	129	M10	7.0	1.5	0.9	
38	48	45	80	45	35.5	24	18	3.0	Ø40x4	11870	M8	25	M8	35		180	157	M12	8.5	1.8	1.0	
42	55	55	95	50	39.0	26	20	3.0	Ø45x4	17487	M10	49	M10	69		198	174	M12	8.5	2.0	1.0	
48	62	60	105	56	45.0	28	21	3.5	Ø50x4	24648	M12	86	M12	120		217	190	M16	12	2.1	1.1	
55	74	70	120	65	50.0	30	22	4.0	Ø55x4	33544	M12	120	M12	120		242	220	M16	12	2.2	1.1	
65	80	80	135	75	60.0	35	26	4.5	Ø65x5	68329	M12	120	M12	120		281	250	M16	12	2.6	1.2	
75	95	90	160	85	67.5	40	30	4.0	Ø75x5	108000	M16	295	M16	295		318	285	M16	12	3.0	1.2	

For inquiries and orders please specify the shaft distance dimension DBSE/LA along with the maximum speed to review the critical bending speed.  
<sup>2)</sup> Torsion spring stiffness with an intermediate pipe length of 1 m  
 Finish bore according to ISO fit H7, feather keyway according to DIN 6885, sheet 1 [JS9].  
 Friction torques of clamping hubs have to be considered.  
 Please order dimension sheet M583613.

Not permissible for crane and hoist drives

Diagramme for coupling selection:

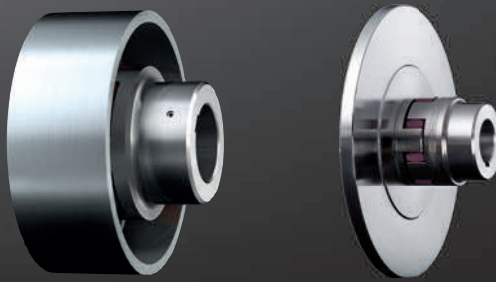


Ordering example:	ROTEX® 38	ZR	1200	98 ShA-GS	7.5	Ø38	7.5	Ø30
	Coupling size	Type	Shaft distance dimension DBSE/LA	Spider hardness	Hub type	Finish bore	Hub type	Finish bore



# ROTEX® BTAN and SBAN Flexible jaw couplings

With brake drum/with brake disk



For legend of pictogram please refer to flapper on the cover



## ROTEX® Type BTAN and SBAN

Size	Pilot bore, D, DN, DN1	Max. finish bore D1		Dimensions [mm]										
		GJS	Steel	DH	DI1	DI2	D4	Z	pitch <sup>1)</sup>	M	T <sub>A</sub> [Nm]	L1, L2	E	L
38	Jaw coupling: page 38 to 40 Stock programme: page 36 and 37	—	35	80	38	50	66	8	8 x 45°	M8	35	45	24	114
42		—	45	95	46	60	80	12	16 x 22.5°	M8	41	50	26	126
48		—	50	105	51	68	90	12		M8	41	56	28	140
55		—	58	120	60	78	102	8	8 x 45°	M10	83	65	30	160
65		—	68	135	68	92	116	12	16 x 22.5°	M10	83	75	35	185
75		—	78	160	80	106	136	15		M12	120	85	40	210
90		—	100	200	100	140	172	15	20 x 18°	M16	295	100	45	245
100		100	—	225	113	156	195	15		M16	295	110	50	270
110		110	—	255	127	176	218	15	M20	580	120	55	295	
125		130	—	290	147	204	252	15		M20	580	140	60	340

Brake drum	Type BTAN										Speed rpm [V] (30 m/s)	Brake disk	Type SBAN										Speed rpm [V] (30 m/s)
	ROTEX® BTAN dimension „C“												ROTEX® SBAN dimension „N1“										
	38	42	48	55	65	75	90	100	110	125		38	42	48	55	65	75	90	100	110	125		
160x60	14										3550	200x12.5	31.25										2800
200x75	9	12	17	24							2800	250x12.5	31.25	34.25	39.25								2240
250x95	1	4	9	16	25	33					2240	315x16		32.5	37.5	44.5	53.5	61.5					1800
315x118		-5	0	7	16	24	36				1800	400x16			37.5	44.5	53.5	61.5	73.5	81.5	88.5		1400
400x150		-18	-13	-6	3	11	23	31	38		1400	500x16				44.5	53.5	61.5	73.5	81.5	88.5	104.5	1120
500x190					-12	-4	8	16	23	39	1120	630x20					51.5	59.5	71.5	79.5	86.5	102.5	900
630x236						-22	-10	-2	5	21	900	710x20					51.5	59.5	71.5	79.5	86.5	102.5	800
710x265								-13	-6	10	800	800x25							69	77	84	100	710
800x300										-4	710	900x25									84	100	630

<sup>1)</sup> Thread in the hub between the cams.

Other sizes on request according to dimension sheet:

BTAN: M380821

SBAN straight: M380822; cranked: M 370065

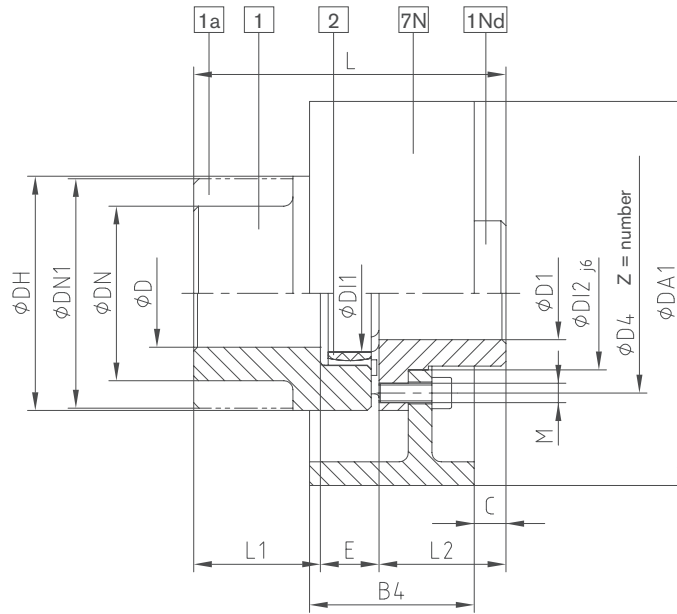
FNN hub: M 380823

Finish bore according to ISO fit H7, feather keyway according to DIN 6885, sheet 1 [JS9].

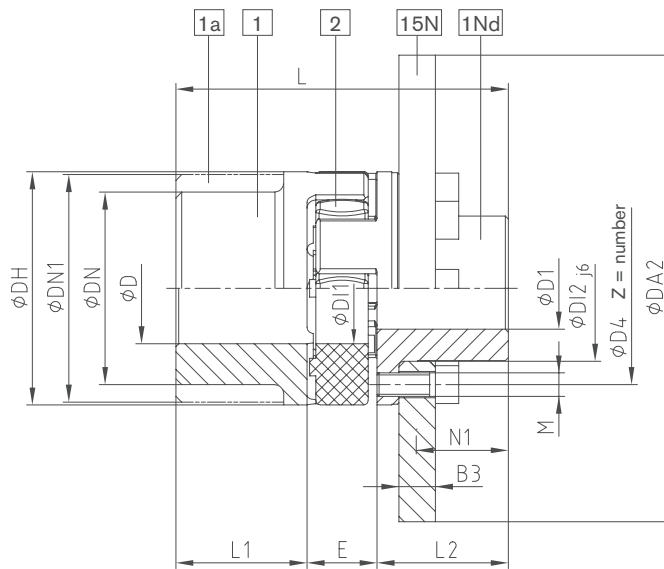
Ordering example:

ROTEX® 38	BTAN	Ø200x75	98 ShA	1Nd	Ø34	1	Ø30
Coupling size	Type	Brake drum Ø x width	Spider hardness	Component	Finish bore	Component	Finish bore

Components



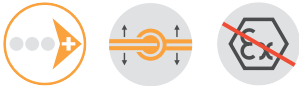
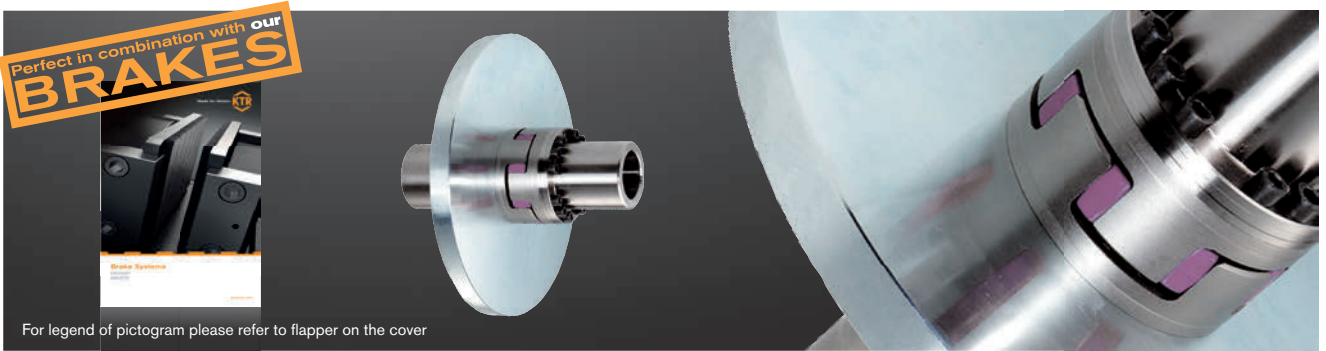
Brake drum  
Type BTAN



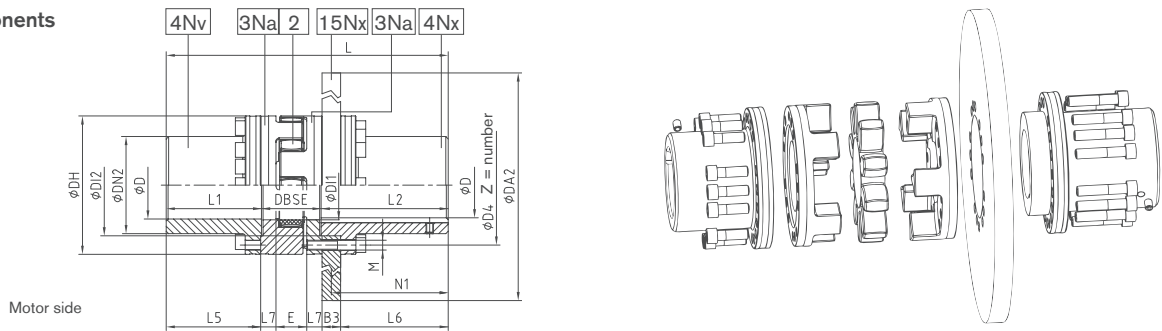
Brake disk  
Type SBAN

# ROTEX® AFN-SB special Flexible jaw couplings

## Drop-out center design coupling with brake disk



### Components



### ROTEX® Type AFN-SB special

Size	Finish bore D		Dimensions [mm]										
	Min.	Max.	DH	DN2	DI2 H7/h7	D4	DI1	DBSE	E	M	Z	Pitch	T <sub>A</sub> [Nm]
65	22	70	135	94	96	116	68	65	35	M10	12	16x22.5°	83
75	30	80	160	108	112	136	80	75	40	M12	15		120
90	40	105	200	142	145	172	100	82	45	M16	15		295
100	46	115	225	158	165	195	113	97	50	M16	15		295
110	60	130	255	178	180	218	127	103	55	M20	15	20x18°	580
125	60	150	290	206	215	252	147	116	60	M20	15		580
140	60	170	320	235	245	282	165	128	65	M20	15		580
160	80	200	370	270	280	325	190	146	75	M24	15		1000
180	85	230	420	315	330	375	220	159	85	M24	18	24x15°	1000

### ROTEX® Type AFN-SB special

Size	Torque with 98 ShA <sup>1)</sup>		Max. speed [rpm]	Max. braking torque <sup>2)</sup> [Nm]	Dimensions [mm]							
	T <sub>KN</sub>	T <sub>K max</sub>			L1	L2	L5	L6	L7	N	L	
65	940	1880	3450	1880	113.5	166.0	112.5	135	16	150	344.5	
75	1920	3840	3250	3840	133.0	166.5	131.5	135	19	150	374.5	
90	3600	7200	3000	7200	165.5	206.5	164.0	175	20	190	454.0	
100	4950	9900	2800	9900	155.0	206.5	153.5	175	25	190	458.5	
110	7200	14400	2600	14400	203.5	212.0	201.5	180	26	195	518.5	
125	10000	20000	2250	20000	200.5	212.0	198.5	180	30	195	528.5	
140	12800	25600	1800	25600	247.0	252.5	244.5	220	34	235	627.5	
								210 <sup>3)</sup>		230 <sup>3)</sup>		
160	19200	38400	1500	38400	229.0	252.5	226.5	220	38	235	627.5	
								210 <sup>3)</sup>		230 <sup>3)</sup>		
180	28000	56000	1350	56000	198.0	252.5	195.0	220	40	235	609.5	

### ROTEX® Selection of coupling/brake disk

Size	Brake disk ØDA2 x B3										
	355x30	400x30	450x30	500x30	560x30	630x30	710x30	800x30	900x30	900x40	1000x40
65	x	x	x								
75		x	x	x							
90			x	x	x	x					
100				x	x	x					
110				x	x	x	x				
125						x	x	x			
140							x	x	x	x	x
160							x	x	x	x	x
180							x	x	x	x	x

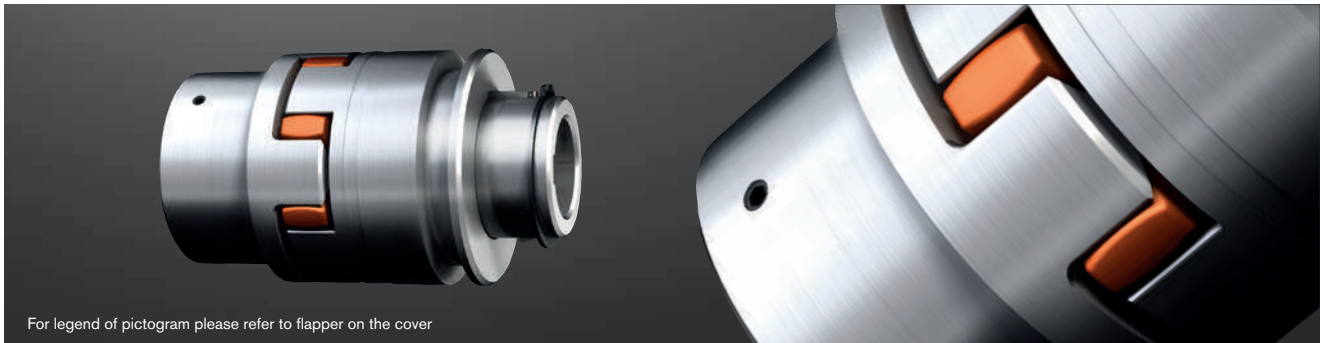
<sup>1)</sup> For selection see page 14 et seqq. <sup>2)</sup> The maximum braking torque must not exceed the maximum torque of the coupling. <sup>3)</sup> Dimensions with a width of brake disk B3 of 40 mm.

Ordering example:	ROTEX® 90	AFN-SB special	Ø450x30	98 ShA	4Nv	Ø90	4Nx	Ø90
	Coupling size	Type	Brake disk Ø x width	Spider hardness	Component	Finish bore	Component	Finish bore

# ROTEX® SD

## Flexible jaw couplings

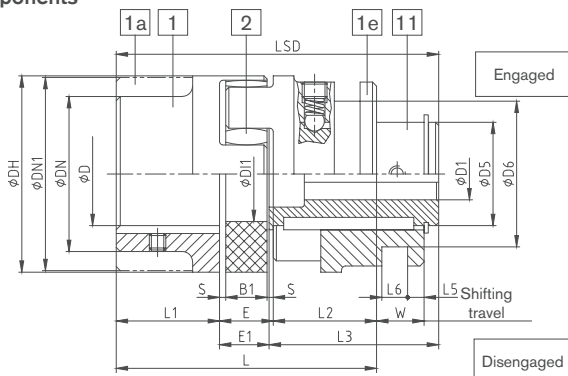
### Shiftable coupling shiftable at standstill



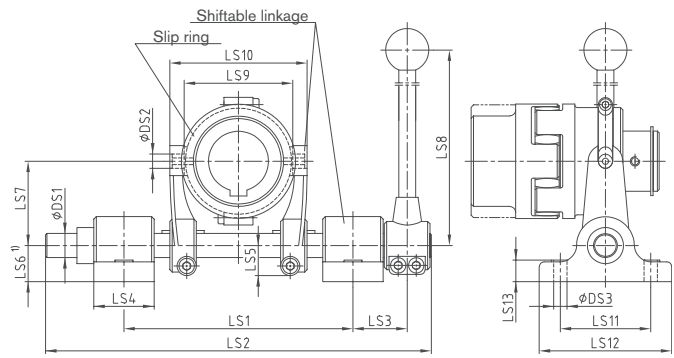
For legend of pictogram please refer to flapper on the cover



#### Components



Type SD



Type SD with slip ring and shiftable linkage

Upon request: Shiftable linkage available with locking pin, locking device and retrieval of shift position.

#### ROTEX® Type SD

Size	D, DN, DN1	Finish bore D1		Dimensions [mm]															Shifting force set in [N]	Slip ring size	Shiftable linkage size
		Min.	Max.	DH	DI2	D5	D6±0,1	L	L1, L2	L3	L5	L6±0,1	LSD	E	E1	B1	S	W			
24	Jaw coupling: page 38 to 40 Stock programme: page 36 and 37	8	20	55	27	30	41	78	30	51.5	6.0	6.0	98	18	16.5	14	2.0	16.0	110	—	—
28		10	24	65	30	36	58	90	35	60.0	8.0	8.0	113	20	18.0	15	2.5	17.5	130	—	—
38		12	30	80	38	45	70.5	114	45	73.0	8.0	12.5	140	24	22.0	18	3.0	21.0	150	1.1	1
42		14	35	95	46	50	70.5	126	50	82.0	8.0	12.5	156	26	24.0	20	3.0	23.0	180	1.1	1
48		15	42	105	51	60	89.5	140	56	90.5	6.0	17.5	172	28	25.5	21	3.5	24.5	200	2.2	2
55		18	50	120	60	70	112.5	160	65	103.0	6.0	18.0	195	30	27.0	22	4.0	26.0	250	3.3	3
65		20	55	135	68	80	112.5	185	75	120.0	7.0	18.0	227	35	32.0	26	4.5	30.5	280	3.3	3
75		25	65	160	80	95	130.5	210	85	135.0	6.0	20.5	257	40	37.0	30	5.0	35.0	350	4.4	3
90		28	75	200	100	110	164.5	245	100	152.0	8.0	25.5	293	45	41.0	34	5.5	39.5	350	5.5	4
100		30	80	225	113	115	164.5	270	110	169.0	14.0	25.5	325	50	46.0	38	6.0	44.0	380	5.5	4
110		35	85	255	127	125	164.5	295	120	184.0	18.5	25.5	355	55	51.5	42	6.5	48.5	450	5.5	4
125		40	100	290	147	145	210.5	340	140	208.5	18.5	30.5	404	60	55.5	46	7.0	53.0	500	6.6	5

#### Slip ring and shiftable linkage

Size	Size of shiftable linkage	Dimensions [mm]																	Max. speed [rpm] of slip ring
		DS1	DS2	DS3	LS1min.	LS1max.	LS2	LS3	LS4	LS5	LS6	LS7	LS8	LS9	LS10	LS11	LS12	LS13	
38	1	20	12	11	180	190	320	55	50	25	30	70	400	90	114	75	110	18	3280
42	1																		
48	2	25	17	13.5	240	270	430	60	27	97.5	450	111	151	140	180	100	140	25	2550
55	3																		
65	3	30	21	13.5	280	310	490	70	60	32.5	40	120	600	170	210	120	160	25	2120
75	3																		
90	4	35	21	13.5	321	365	565	70	60	37.5	50	147.5	750	200	244	120	160	25	1360
100	4																		
110	4	40	25	13.5	365	410	630	80	46	190	1085	250	300	250	300	250	300	25	855
125	5																		

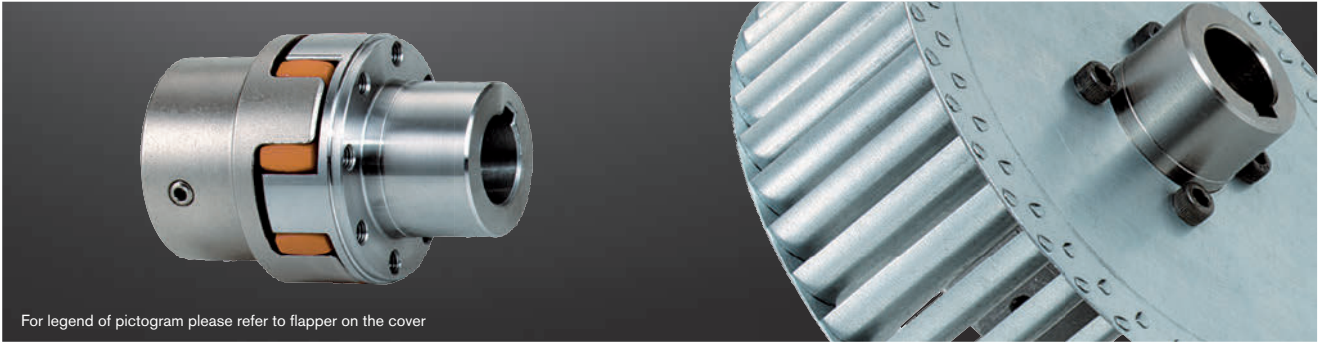
<sup>1)</sup> With a through base plate dimension „LS6“ of the shiftable linkage size 5 to be increased by at least 10 mm. Finish bore according to ISO fit H7, feather keyway according to DIN 6885, sheet 1 [JS9].

Ordering example:	ROTEX® 38	SD	With 1.1 and 1	98 ShA	1	Ø38	11	Ø28
		Coupling size	Type	With slip ring 1.1 and shiftable linkage 1	Spider hardness	Component	Finish bore	Component

# ROTEX® FNN

## Flexible jaw couplings

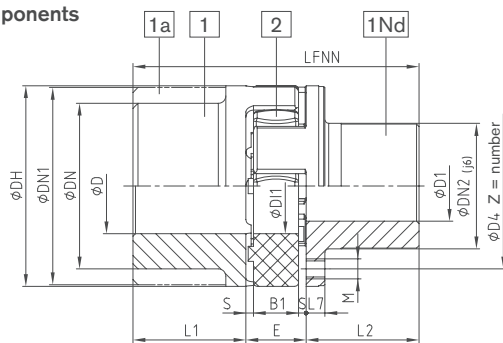
### For mounting of fan



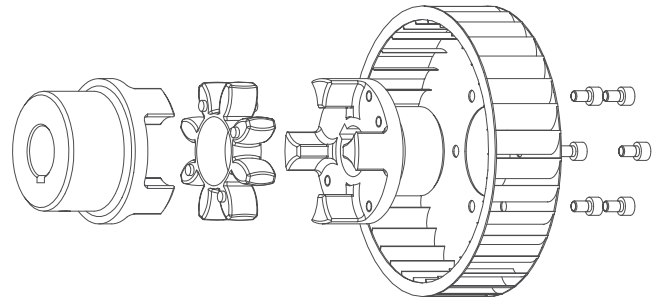
For legend of pictogram please refer to flapper on the cover



#### Components



Type FNN



Type FNN with fan (type 1)

#### ROTEX® Type FNN

Size	D, DN, DN1	Max. finish bore D1	Dimensions [mm]												
			DH	D2	D4	dH	E	B1	S	L1, L2	L7	M	Z	Pitch	LFNN
28		28	65	40	54	30	20	15	2.5	35	6.5	M6	8		90
38		35	80	50	66	38	24	18	3.0	45	7.5	M8	8	8x45°	114
42	Jaw coupling: page 38 to 40 Stock programme: page 36 and 37	42	95	60	80	46	26	20	3.0	50	9.5	M8	12		126
48		50	105	68	90	51	28	21	3.5	56	10.5	M8	12	16x22.5°	140
55		55	120	78	102	60	30	22	4.0	65	12.5	M10	8	8x45°	160
65		65	135	92	116	68	35	26	4.5	75	13.5	M10	12	16x22.5°	185
75		75	160	106	136	80	40	30	5.0	85	15.5	M12	15		210
90		100	200	140	172	100	45	34	5.5	100	18.5	M16	15	20x18°	245

Other sizes on request.

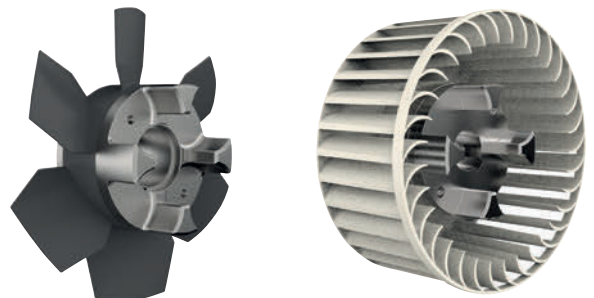
#### Type 1: Fan screwed on

The ROTEX® hub can be supplied with the fan screwed on. Customised connection dimensions such as pitch circle of threads, size of threads and number or centering of fans must be specified in your inquiry.



#### Type 2: Fan injection-moulded

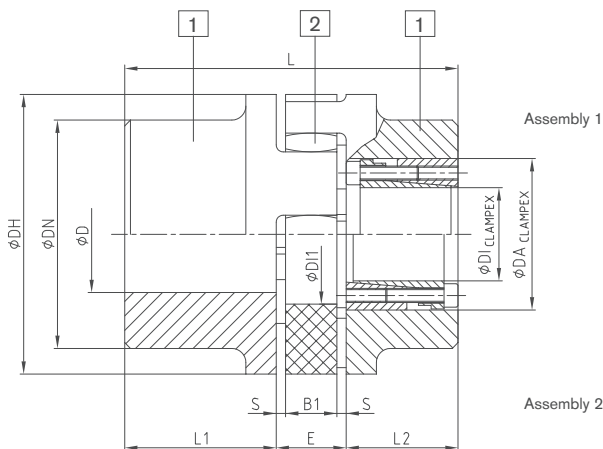
Low prices due to optimisation of production with bigger volumes.



#### Ordering example:

ROTEX® 38	FNN	92 ShA	1	Ø38	1Nd	Ø30
Coupling size	Type	Spider hardness	Component	Finish bore	Component	Finish bore

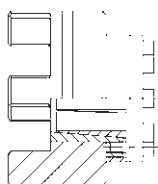
## Other types with clamping sets



Components

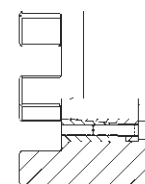
ROTEX® with clamping set CLAMPEX® KTR 200														
Size	D, DN	Hub material	CLAMPEX® KTR 200		L2	Dimensions [mm]								
			Max. size of KTR clamping set D1xD2	Transmittable torque and axial force T [Nm]    FAX [kN]		L1	E	B1	S	DH	DN	D11	L	
42	Jaw coupling: page 38 to 40 Stock programme: page 36 and 37	Steel Component 1	30x55	790    53	48	50	26	20	3.0	95	—	46	Length = L1 + E + L2 (clamping set)	
48			35x60	1300    74	48	56	28	21	3.5	105	—	51		
55			45x75	2200    98	59	65	30	22	4.0	120	—	60		
65			45x75	2200    98	59	75	35	26	4.5	135	115	68		
75			50x80	3330    132	59	85	40	30	5.0	160	135	80		
90		65x95	4300    132	59	100	45	34	5.5	200	160	100			
100		65x95	4300    132	59	110	50	38	6.0	225	180	113			
110		70x110	7500    214	70	120	55	42	6.5	255	200	127			
125		80x120	8500    213	70	140	60	46	7.0	290	230	147			
140		95x135	12600    265	70	155	65	50	7.5	320	255	165			
160	110x155	16500    300	80	175	75	57	9.0	370	290	190				
180	120x165	22500    375	80	195	85	64	10.5	420	325	220				

### Type 4.2 with CLAMPEX® clamping set KTR 250



Frictionally engaged, backlash-free shaft-hub-connection for transmitting average torques.

### Type 4.3 with CLAMPEX® clamping set KTR 400



Frictionally engaged, backlash-free shaft-hub-connection for transmitting bigger torques. Maximum size of clamping set depends on the hub collar diameter. Clamping set screw fitting possible both internally and externally. For details of calculation see CLAMPEX® catalogue.

For CLAMPEX® programme see page 280 to 315.

Other types with torque limiters



**ROTEX® BKN - Overload coupling, type BKN**

- Torsionally flexible coupling ROTEX® with shear pin
- Load-separating with blockage/overload
- Easy replacement of shear pin
- Fracture torque to be defined individually depending on the application

Customer variant from the stock programme.  
Please specify the fracture torques with your order!  
For further details see dimension sheet No. 5020/000/009-760313



**ROTEX® - RUFLEX® - Overload coupling**

- High power density
- Large wear volume with long service life
- Easy assembly and torque setting

For further details see catalogue page 250



**ROTEX® - KTR-SI - Overload coupling**

- Available in a ratchet, synchronous, idle rotation and fail-safe design
- High response accuracy, even after a long operating period
- Maintenance-free

For further details see catalogue page 257



**ROTEX® - KTR-SI FRE - idle rotation overload coupling**

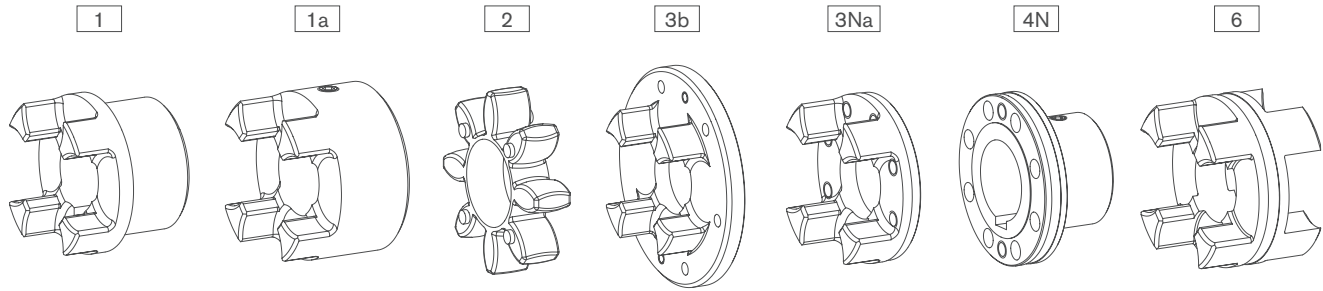
- Idle rotation overload system for high torques
- High repeatability
- Intelligent further development towards the shear pin coupling and hydraulic clamping sets

For further details see catalogue page 259

# ROTEX®

## Flexible jaw couplings

### Weights and mass moments of inertia



ROTEX® individual components														
Size	Standard hub				Large hub			Spider	Driving flange				Coupling flange	DKM spacer
	Component 1				Component 1a			Component 2	Component 3b	Component 3Na			Component 4N	Component 6
	Aluminium [kg] [kgm²]	GJL [kg] [kgm²]	GJS [kg] [kgm²]	St [kg] [kgm²]	Aluminium [kg] [kgm²]	GJL [kg] [kgm²]	St [kg] [kgm²]	Polyurethane (Vulkollan) [kg] [kgm²]	GJS [kg] [kgm²]	St [kg] [kgm²]	GJS [kg] [kgm²]	St [kg] [kgm²]	Aluminium [kg] [kgm²]	
14	—	—	—	—	0.020	—	—	0.0044	—	—	—	—	—	
	—	—	—	—	0.000003	—	—	0.0000005	—	—	—	—	—	
19	0.064	—	—	—	0.074	—	0.25	0.0057	—	—	—	—	—	
	0.00001	—	—	—	0.00002	—	0.00006	0.000001	—	—	—	—	—	
24	0.123	—	—	—	0.174	—	0.55	0.014	0.028	0.145	—	0.30	0.14	
	0.00004	—	—	—	0.00008	—	0.00023	0.000006	0.00023	0.00007	—	0.00009	0.00006	
28	0.200	—	—	—	0.264	—	0.89	0.024	0.54	0.232	—	0.49	0.22	
	0.00010	—	—	—	0.00019	—	0.00053	0.00001	0.0007	0.00017	—	0.0002	0.00013	
38	0.44	1.16	—	1.6	0.470	1.32	1.74	0.042	0.73	—	0.313	0.87	0.35	
	0.00033	0.00086	—	0.00151	0.00046	0.00135	0.00155	0.00004	0.001	—	0.00038	0.0005	0.00035	
42	0.69	1.75	—	2.44	0.772	2.05	2.74	0.065	1.26	—	0.608	1.4	0.47	
	0.00067	0.00178	—	0.00281	0.00111	0.00291	0.00343	0.00008	0.0032	—	0.00089	0.0011	0.00068	
48	0.80	2.44	—	3.34	1.01	2.78	3.72	0.086	1.45	—	0.755	1.92	0.62	
	0.0012	0.00308	—	0.00473	0.00174	0.00484	0.00570	0.00013	0.0043	—	0.001358	0.0018	0.0011	
55	—	3.68	—	5.05	—	4.08	5.57	0.11	2.58	—	1.243	2.93	0.90	
	—	0.00615	—	0.00948	—	0.00926	0.01193	0.00023	0.0105	—	0.002920	0.0037	0.0021	
65	—	5.67	—	6.79	—	6.04	8.22	0.17	3.10	—	1.635	4.36	1.31	
	—	0.01240	—	0.01516	—	0.01789	0.02079	0.00043	0.0149	—	0.004891	0.0069	0.0039	
75	—	8.72	—	10.5	—	9.53	14.3	0.32	4.46	—	2.511	6.80	1.97	
	—	0.02644	—	0.03269	—	0.03946	0.05069	0.001166	0.0281	—	0.01050	0.0151	0.0082	
90	—	14.8	—	18.7	—	18.2	24.0	0.57	6.94	—	4.151	12.84	3.45	
	—	0.06730	—	0.08742	—	0.15086	0.13151	0.00326	0.0651	—	0.02723	0.0448	0.0224	
100	—	—	19.7	—	—	—	—	0.82	10.2	—	6.350	16.16	—	
	—	—	0.11694	—	—	—	—	0.00592	0.1165	—	0.05273	0.0798	—	
110	—	—	27.4	—	—	—	—	1.14	—	—	8.578	21.35	—	
	—	—	0.20465	—	—	—	—	0.01048	—	—	0.09121	0.2824	—	
125	—	—	42.3	—	—	—	—	1.56	—	—	12.598	34.33	—	
	—	—	0.40727	—	—	—	—	0.01878	—	—	0.17469	0.3229	—	
140	—	—	58.1	—	—	—	—	2.02	—	—	17.271	48.69	—	
	—	—	0.67739	—	—	—	—	0.02989	—	—	0.29247	0.4917	—	
160	—	—	84.2	—	—	—	—	3.08	—	—	26.305	71.08	—	
	—	—	1.31729	—	—	—	—	0.06049	—	—	0.59436	0.9693	—	
180	—	—	118.5	—	—	—	—	5.04	—	—	33.076	109.43	—	
	—	—	2.30835	—	—	—	—	0.13295	—	—	0.97394	1.9650	—	

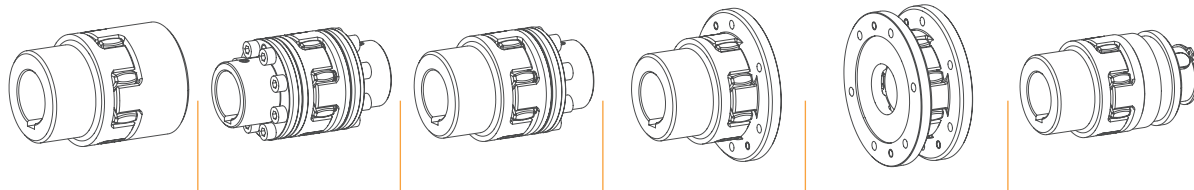
Weight and mass moment of inertia each refer to the average finish bore without feather keyway.

For continuously updated data please refer to our online catalogue at [www.ktr.com](http://www.ktr.com)

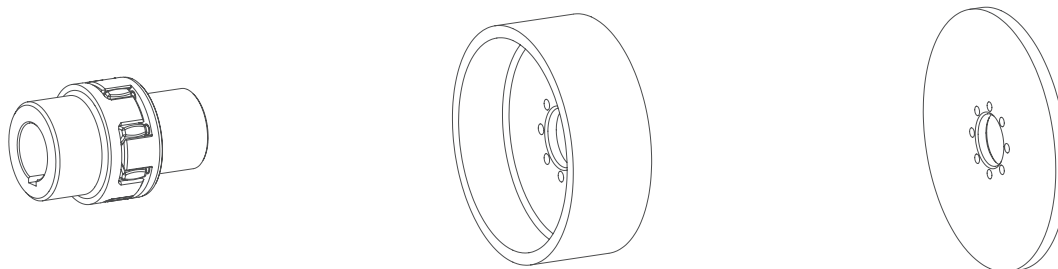


# ROTEX® Flexible jaw couplings

## Weights and mass moments of inertia



ROTEX® Complete coupling types												
Size	Standard		AFN		BFN		CF		DF		SD	
	Weight [kg]	Mass moment of inertia J [kgm²]	Weight [kg]	Mass moment of inertia J [kgm²]	Weight [kg]	Mass moment of inertia J [kgm²]	Weight [kg]	Mass moment of inertia J [kgm²]	Weight [kg]	Mass moment of inertia J [kgm²]	Weight [kg]	Mass moment of inertia J [kgm²]
19	0.51	0.000121	—	—	—	—	0.44	0.00016	0.38	0.00020	0.42	0.00008
24	1.1	0.000466	0.98	0.00036	1.1	0.00041	0.84	0.00047	0.57	0.00047	1.1	0.00046
28	1.8	0.00107	1.6	0.00083	1.7	0.00095	1.5	0.00124	1.1	0.00141	1.9	0.00106
38	2.5	0.00171	2.8	0.00209	2.6	0.00193	1.9	0.00217	1.5	0.00259	3.0	0.00435
42	3.9	0.00476	4.5	0.00472	4.1	0.00419	3.1	0.00513	2.6	0.00662	4.4	0.00804
48	5.3	0.00805	5.9	0.00736	5.5	0.00684	3.9	0.00755	3.0	0.00881	6.2	0.00223
55	7.9	0.01564	8.9	0.01480	8.3	0.01369	6.4	0.01692	5.3	0.02131	9.8	0.0166
65	11.9	0.03071	12.9	0.0266	12.3	0.0259	8.9	0.02780	6.4	0.003037	14.9	0.0326
75	18.6	0.06706	20.6	0.0601	19.3	0.0572	13.5	0.0557	9.2	0.05741	23.2	0.0706
90	33.6	0.22139	37.8	0.1718	34.2	0.1551	22.3	0.1356	14.5	0.1333	40.5	0.1891
100	40.2	0.23976	49.6	0.3068	45.2	0.2737	30.9	0.2401	21.2	0.2394	46.7	0.2467
110	56.0	0.42027	67.5	0.5385	61.7	0.4793	42.9	0.4324	29.8	0.4446	61.5	0.4186
125	86.2	0.83426	102.6	1.0485	94.4	0.9413	64.4	0.8187	42.2	0.8031	96.8	0.8497
140	118.3	1.38607	141.2	1.743	129.7	1.564	90.4	1.4221	62.5	1.4580	127.8	1.368
160	171.6	2.69781	210.3	3.517	190.9	3.107	127.6	2.589	83.6	2.4805	190.3	2.723
180	242.25	4.75449	306.6	6.582	274.4	5.668	175.1	4.448	107.9	4.141	262.2	4.810



BTAN/SBAN without drum/disk		
Size	Weight [kg]	Mass moment of inertia J [kgm²]
28	0.90	0.0004
38	2.10	0.0014
42	3.24	0.0031
48	4.41	0.0053
55	6.60	0.0105
65	10.1	0.0209
75	15.4	0.0442
90	27.6	0.1224
100	36.9	0.2074
110	50.9	0.3665
125	79.1	0.7349
140	109.0	1.2292
160	161.9	2.4569
180	232.9	4.4967

Brake drum for BTAN <sup>1)</sup>		
Brake drum ØD <sub>B</sub> x B	Weight [kg]	Mass moment of inertia J [kgm²]
160 x 60	2.12	0.01
200 x 75	3.45	0.03
250 x 95	6.87	0.08
315 x 118	14.95	0.28
400 x 150	31.20	0.89
500 x 190	60.00	2.70
630 x 236	112.00	8.01
710 x 265	161.00	14.9
800 x 300	202.00	27.2

Brake disk for SBAN <sup>1)</sup>		
Brake disk ØA x G <sub>S</sub>	Weight [kg]	Mass moment of inertia J [kgm²]
200 x 12.5	2.928	0.015367
250 x 12.5	4.662	0.037584
315 x 16	8.618	0.111829
400 x 16	15.230	0.315206
500 x 16	23.964	0.769963
630 x 20	47.716	2.426359
710 x 20	60.934	3.915100
800 x 25	94.913	7.878998
900 x 25	118.954	12.609089
1000 x 25	148.240	19.234941