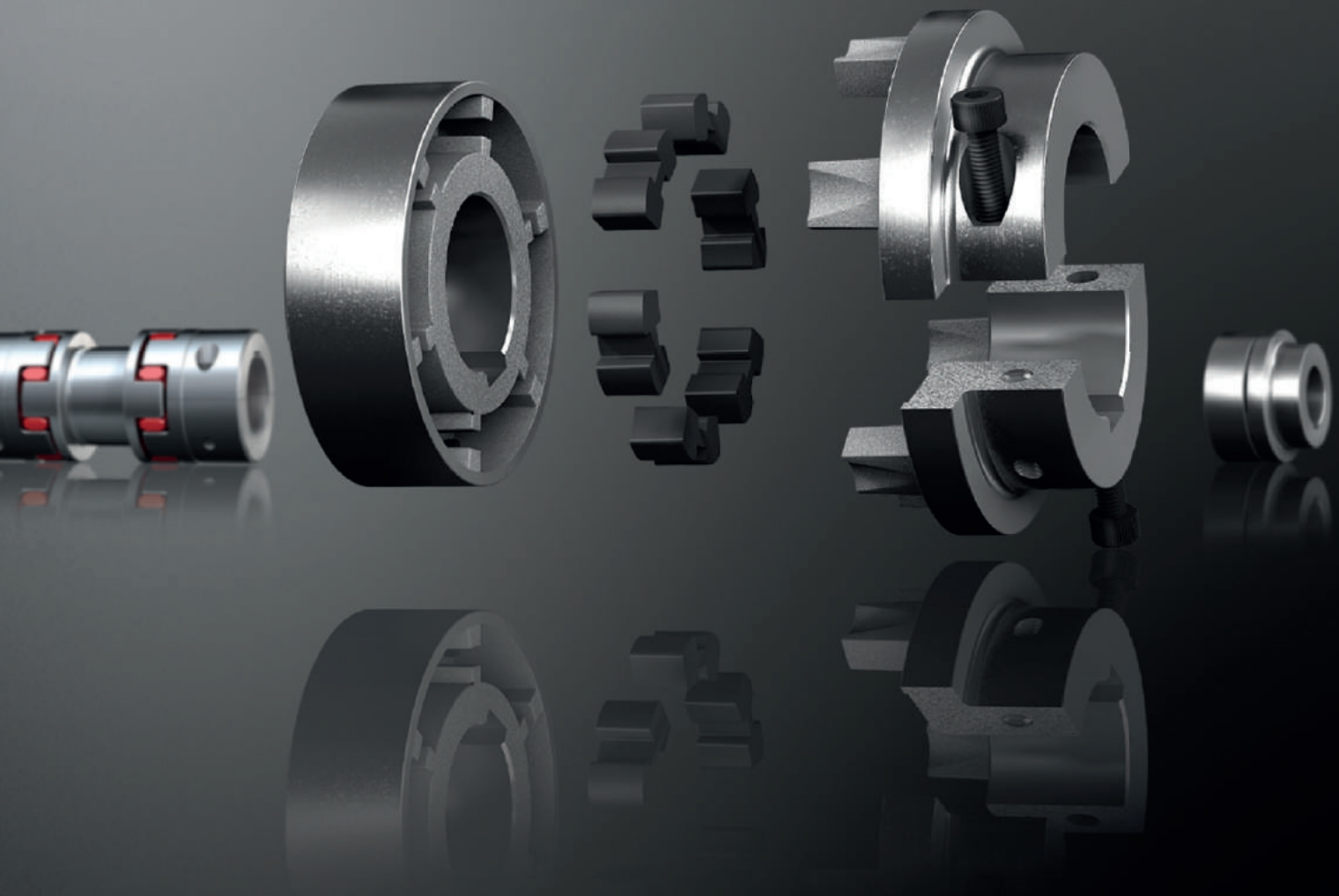
Made for Motion KTR



ROFLEX®

+ ROTEX® ZS-DKM-SH

Flexible jaw coupling

ktr.com

Fast, easy and reliable - with the product finder and our online tools

The product finder allows you to get to the suitable product in just a few steps. For this purpose either make use of the search function if you already know the product or use the full-text search which guides you to the requested result via various product-specific filters. Our selection tools speed up the detailed product selection. Few technical data suffice to rapidly find the right product for your application in the configurators - without having to browse catalogues lengthily.

Online tools

Tailor-made to your specifications - make use of our online tools

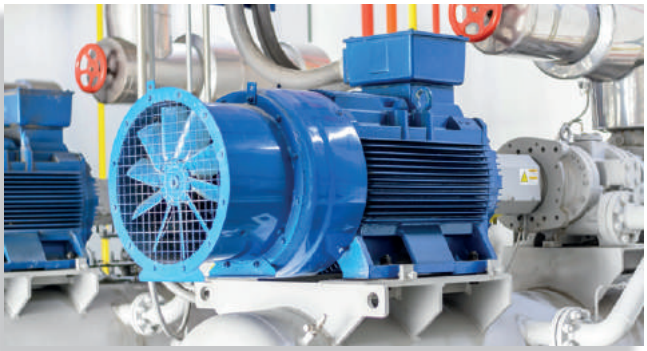
Product finder

The suitable product for your application - fast and simple with our product finder.

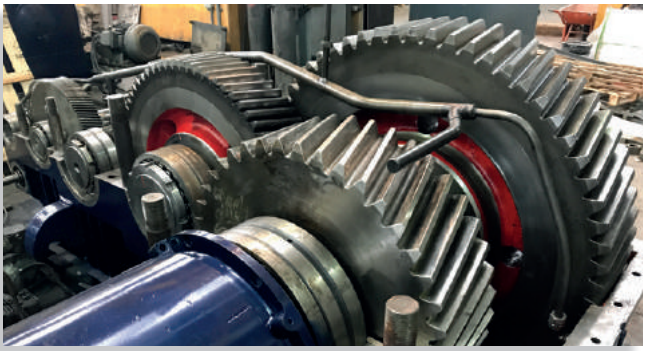
Examples of application

Pumps

Industrial fans



Compactors and compressors



Industrial gears

Conveyors

Agitators

COUPLING SELECTION ACCORDING TO DIN 740 PART II

Coupling types

Flexible jaw couplings

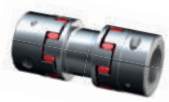
ROTEX®

Flexible coupling

– Flexible
– Maintenance-free
– Fail-safe
– Compact dimensions
– Axial plug-in

ROTEX® ZS-DKM-SH

Flexible coupling



– Flexible
– Maintenance-free
– Fail-safe
– Double-cardanic
– Can be mounted radially

ROFLEX®

Flexible coupling

– Flexible
– Maintenance-free
– Fail-safe
– Compact dimensions
– Axial plug-in

POLY-NORM®

Flexible coupling

– Flexible
– Maintenance-free
– Fail-safe
– Compact dimensions
– Axial plug-in

POLY

Flexible, shear type coupling

– Flexible
– Maintenance-free
– Shear type
– Axial plug-in

Gear couplings

BoWex®

Torsionally stiff curved-tooth gear coupling®

– Torsionally stiff
– Maintenance-free
– Shear type
– Compact dimensions
– Single-cardanic or double-cardanic
– Axial plug-in

BoWex® HEW Compact

Highly flexible shaft coupling

– Highly flexible
– Maintenance-free
– Shear type
– Compact dimensions
– Single-cardanic
– Axial plug-in

Flange couplings for I. C.-engines

BoWex-ELASTIC®

Highly flexible flange coupling

– Flexible to highly flexible
– Maintenance-free
– Shear type
– Compact dimensions
– Single-cardanic
– Axial plug-in

MONOLASTIC®

One-piece, flexible flange coupling

– Flexible
– Maintenance-free
– Shear type
– Compact dimensions
– Single-cardanic
– Axial plug-in

BoWex® FLE-PA/-PAC

Torsionally stiff flange coupling

– Torsionally stiff
– Maintenance-free
– Shear type
– Compact dimensions
– Single-cardanic
– Axial plug-in

COUPLING SELECTION ACCORDING TO DIN 740 PART II

Terminology of coupling selection

Description	Symbol	Definition or explanation
Rated torque of coupling [Nm]	T_{KN}	Torque that can be continuously transmitted over the entire permissible speed range
Maximum torque of coupling [Nm]	$T_{K\,max}$	Torque that can be transmitted as dynamic load ≥ 10^5 times respectively $5 \cdot 10^4$ as vibratory load over the entire operating life of the coupling
Vibratory torque of coupling [Nm]	T_{KW}	Torque amplitude of the permissible periodical torque fluctuation with a frequency of 10 Hz and a basic load of T_{KN} respectively dynamic load up to T_{KN}.
Damping power of coupling [W]	P_{KW}	Permissible damping power with an ambient temperature of +30 °C
Rated torque of machine [Nm]	T_N	Stationary rated torque on the coupling
Rated torque of driving side [Nm]	T_{AN}	Rated torque of machine, calculated on the basis of rated power and rated speed
Rated torque of load side [Nm]	T_{LN}	Maximum figure of the load torque calculated on the basis of power and speed
Peak torque of machine [Nm]	T_S	Peak torque on the coupling
Peak torque of driving side [Nm]	T_{AS}	Peak torque with torque shock on driving side, e. g. tilting moment of the electric motor
Peak torque of load side [Nm]	T_{LS}	Peak torque with torque shock on load side, e. g. braking
Vibratory torque of machine [Nm]	T_W	Amplitude of the vibratory torque effective on the coupling

Description	Symbol	Definition or explanation
Damping power of machine [W]	P_W	Damping power which is effective on the coupling due to the load generated by the vibratory torque
Engine power [kW]	P	Rated power of drive
Speed [rpm]	n	Rated speed of engine
Rotational inertia coefficient of driving side	M_A	Factor considering the mass distribution with shocks and vibrations generated on the driving or load side
Rotational inertia coefficient of load side	M_L	
Mass moment of inertia of driving side [kgm²]	J_A	Total of moments of inertia existing on the driving or load side referring to the coupling speed
Mass moment of inertia of load side [kgm²]	J_L	
Mass moment of inertia of coupling [kgm²]	J_{KA}	Mass mom. of inertia of the coupl. half on drive side
	J_{KL}	Mass mom. of inertia of the coupl. half on load side
Starting factor	S_Z	Factor considering the additional load caused by the starting frequency per hour
Shock factor on driving side	S_A	Factor considering the shocks arising depending on the application (e. g. starting shocks)
Shock factor on load side	S_L	
Temperature factor	S_t	Factor considering the lower loading capacity or larger deformation of an elastomer part under load particularly in case of increased temperatures
Operating factor	S_B	Factor considering the different demands on the coupling dependent on the application
Screw tightening torque [Nm]	T_A	Tightening torque of screw

Temperature factor S_t

	-50 °C	-30 °C/+40 °C	≤ +50 °C	≤ +60 °C	≤ +70 °C	≤ +80 °C	≤ +90 °C	≤ +100 °C	≤ +110 °C	≤ +120 °C
ROTEX®										
T-PUR®	1.0	1.0	1.2	1.3	1.45	1.6	1.8	2.1	2.5	3.0
PUR	–	1.0	1.3	1.4	1.55	1.8	2.2	–	–	–
ROFLEX®										
NBR / PUR	–	1.0	1.0	1.0	1.4	1.8	–	–	–	–
POLY-NORM®										
NBR 78 Shore A	–	1.0	1.3	1.4	1.6	1.8	–	–	–	–
POLY										
NBR (cuboid)	–	1.0	1.3	1.4	1.6	1.8	–	–	–	–
BoWex®										
PA 6.6	1.0	1.0	1.0	1.0	1.2	1.4	1.6	1.8	–	–
PA-CF	1.0	1.0	1.0	1.0	1.1	1.2	1.4	1.6	1.9	2.2
BoWex® HEW Compact	–	1.0	1.0	1.0	1.1	1.4	1.7	–	–	–
BoWex-ELASTIC®										
Standard	–	1.0	1.0	1.0	1.1	1.4	1.7	–	–	–
MONOLASTIC®										
Standard	–	1.0	1.0	1.0	1.1	1.4	1.7	–	–	–
BoWex® FLE-PA/-PAC										
PA 6 GF	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.4	1.6	1.8
PA-CF	1.0	1.0	1.0	1.0	1.1	1.2	1.4	1.6	1.9	2.2

For the selection with PEEK spider a temperature factor is not necessary.
For temperature factors for PA spiders see page 30.

Starting factor S_Z

ROTEX®, POLY-NORM®, POLY, BoWex®, BoWex® HEW Compact				
Starting frequency per hour	< 100	< 200	< 400	< 800
S_Z	1.0	1.2	1.4	1.6
BoWex-ELASTIC®				
Starting frequency per hour	< 10	< 60	< 120	> 120
S_Z	1.0	1.5	2.0	On request

Shock factor S_A/S_L

ROTEX®, POLY-NORM®, POLY, BoWex®, BoWex® HEW Compact, BoWex-ELASTIC®	S_A/S_L
Moderate shocks	1.5
Average shocks	1.8
Heavy shocks	2.5

Operating factor S_B

Hydrostatic drives for BoWex® FLE-PA, MONOLASTIC®	
Applications	S_B
Wheel loaders	1.6
Compact loaders	1.6
Hydraulic excavators	1.4
Mobile cranes	1.6
Graders	1.5
Vibration rollers	1.4
Forklift trucks	1.6
Concrete mixer trucks	1.3
Concrete pumps	1.4
Asphalt finishers	1.4
Concrete cutters	1.4
Road milling machines	1.4

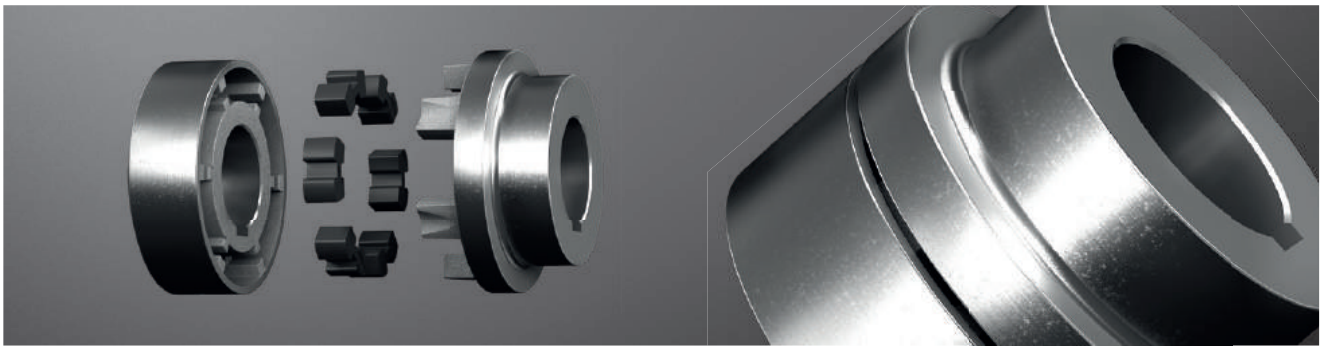
Permissible load on feather keyway of the coupling hubs

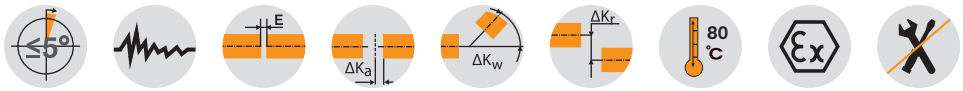
The shaft-hub-connection needs to be inspected by the customer.

Permissible surface pressure according to DIN 6892 (method C)			
Cast iron (GJL)	225 N/mm²	Powder metal steel	180 N/mm²
Nodular iron (GJS)	225 N/mm²	Aluminium diecast (Al-D)	110 N/mm²
Steel	250 N/mm²	Aluminium wrought products (Al-H)	200 N/mm²
Polyamide	30 N/mm² (up to +40 °C)	For other steel materials $p_{perm.}$	0.9 • R_e ($R_{p0.2}$)

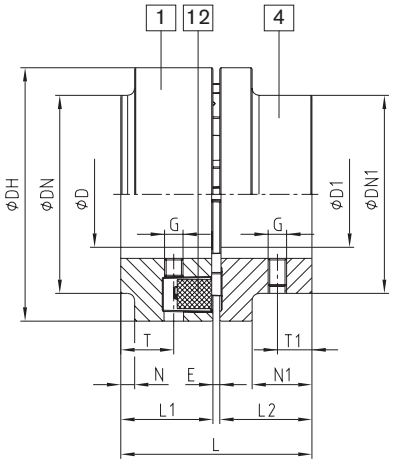
ROFLEX® N
Flexible jaw couplings

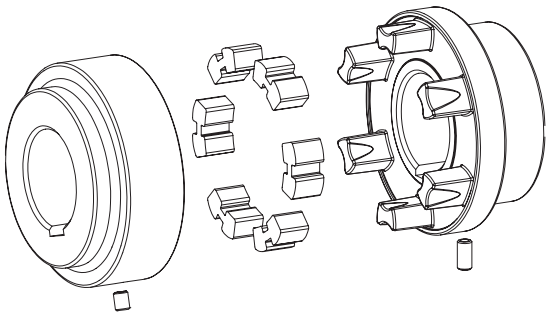
Two-part





Components



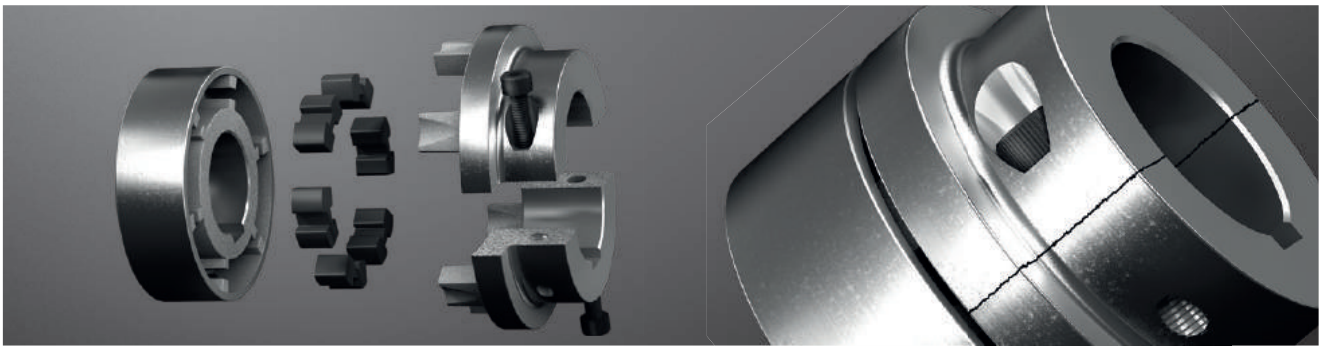


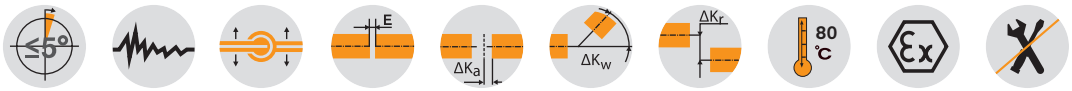
ROFLEX® type N																			
Size	Torque		Max. speed [rpm]	Dimensions														Mass moment of inertia J1 [kgm²]	Mass moment of inertia J4 [kgm²]	Total weight m [kg] [1]
				Max. finish bore		General								Thread for setscrews						
	T_{KN} [Nm]	$T_{Kmax.}$ [Nm]		D	D1	L	L1,L2	E	DH	DN	DN1	N	N1	G	T	T1	TA [Nm]			
68	65	180	8500	28	38	43	20	3	68	-	-	-	-	M5	8.5	8	2	0.00016	0.00029	0.6
80	80	220	7500	35	45	63	30	3	80	-	68	-	20	M8	20.5	12	10	0.00059	0.00055	1.2
95	125	345	6800	45	48	73	35	3	95	76	76	5	23	M8	22	15	10	0.00116	0.00120	1.9
110	205	565	6500	50	55	83	40	3	110	86	86	6	26	M8	24	18	10	0.0024	0.0024	2.9
125	315	865	5800	60	65	103	50	3	125	100	100	14	32	M8	32	20	10	0.0046	0.0052	4.5
140	450	1240	5400	70	65	113	55	3	140	100	100	21	35	M10	13	22	17	0.0062	0.0077	5.3
160	790	2170	4800	75	70	124	60	4	160	108	108	21	40	M10	13	25	17	0.014	0.013	8.1
180	1150	3160	4350	85	80	144	70	4	180	125	125	28	50	M10	16	32	17	0.021	0.023	11.0
200	1800	4950	3950	90	90	164	80	4	200	140	140	33	56	M12	20	40	40	0.038	0.044	16.3
225	2100	5775	3600	100	100	184	90	4	225	150	150	38	72	M12	22	40	40	0.06	0.06	20.4
250	3550	9765	3000	110	110	205.5	100	5.5	250	165	165	40	82	M16	24	45	80	0.11	0.10	28.2
280	5000	13750	3000	120	120	225.5	110	5.5	280	180	180	45	90	M16	28	45	80	0.19	0.16	38.1

[1] Mass moments of inertia J1 and J4 as well as the total weight m refer to the maximum bore diameters
■ = Available from stock

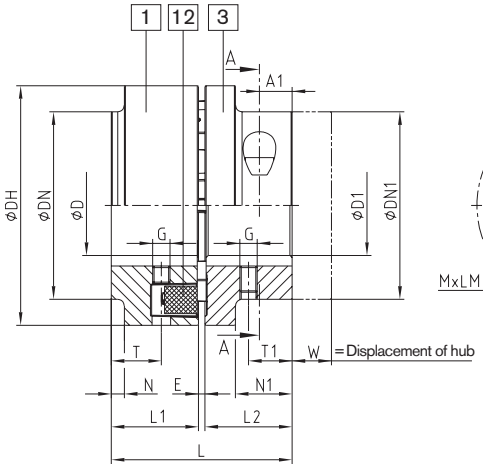
Ordering example:	ROFLEX® 110	Standard	ØD1 = 48	ØD4 = 38
	Coupling size	Type	Finish bore	Finish bore

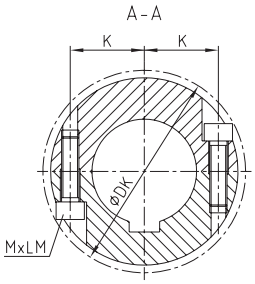
Coupling with split hub

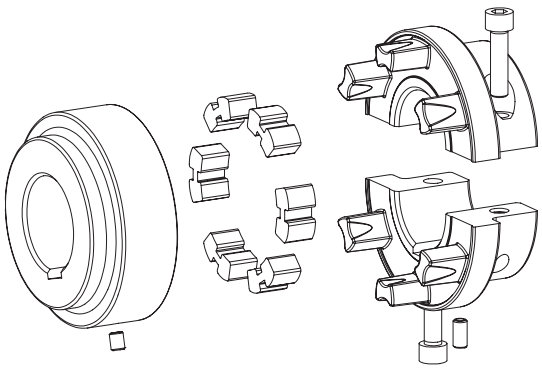




Components







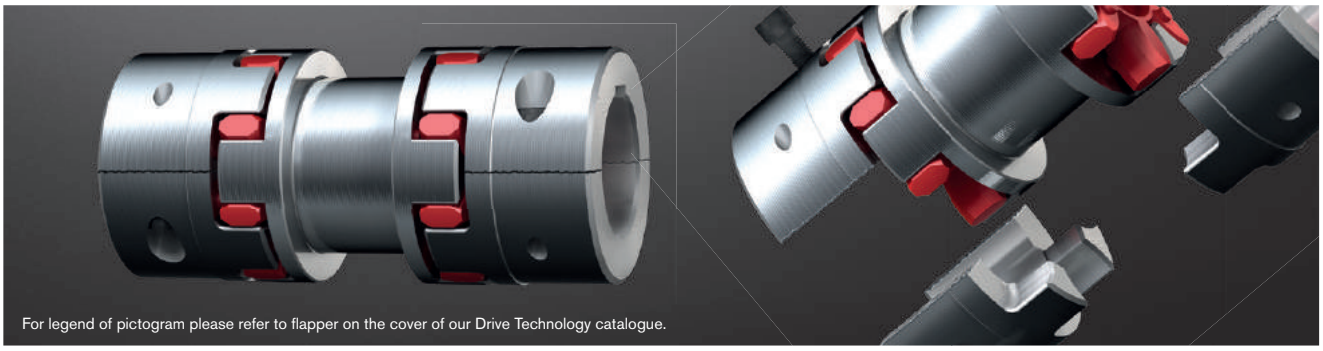
ROFLEX® type SH																												
Size	Torque		Max. speed [rpm]	Dimensions																							Mass moment of inertia J1 [kgm²] 1)	Mass moments of inertia J3 [kgm²] 1)	Total weight m [kg] 1)
				Max. finish bore		General										Thread for setscrews				Cap screws								
	T_{KN} [Nm]	$T_{Kmax.}$ [Nm]		D	D1	L	L1	L2	E	DH	DN	DN1	N	N1	W	G	T	T1	T_A [Nm]	MxLM	DK	K	A1	A2	T_A [Nm]			
80	80	220	7500	35	38	63	30	30	3	80	80	68	-	20	15.5	M8	20.5	12	10	M8x25	75	25	11	-	34	0.00059	0.00058	1.3
95	125	345	6800	45	42	73	35	35	3	95	76	76	5	23	18	M8	22	15	10	M8x30	82	28.5	13	-	34	0.00116	0.00123	2.0
110	205	565	6500	50	48	83	40	40	3	110	86	86	6	26	21	M8	24	18	10	M8x35	94	31.5	15	-	34	0.0024	0.0025	3.1
125	315	865	5800	60	55	103	50	50	3	125	100	100	14	32	23.5	M8	32	20	10	M10x40	108	38.5	20	-	67	0.0046	0.0052	4.5
140	450	1240	5400	70	60	113	55	55	3	140	100	100	21	35	25	M10	13	22	17	M10x35	108	39.0	10.5	25.5	67	0.0062	0.0080	5.7
160	790	2170	4800	75	65	124	60	60	4	160	108	108	21	40	30	M10	13	25	17	M12x35	118	42.5	12	29	115	0.014	0.014	8.5
180	1150	3160	4350	85	75	144	70	70	4	180	125	125	28	50	32	M10	16	32	17	M12x40	135	50	15	35	115	0.021	0.024	11.6
200	1800	4950	3950	90	85	164	80	80	4	200	140	140	33	56	34	M12	20	40	40	M16x50	153	54	17	40	290	0.038	0.044	17.8

1) Mass moments of inertia J1 and J4 as well as the total weight m refer to the maximum bore diameters
■ = Available from stock

Ordering example:	ROFLEX® 110	SH	ØD1 = 42	ØD3 = 48
	Coupling size	Type	Finish bore	Finish bore

ROTEX® ZS-DKM-SH
Flexible jaw couplings

Double-cardanic shaft coupling with SPLIT hubs



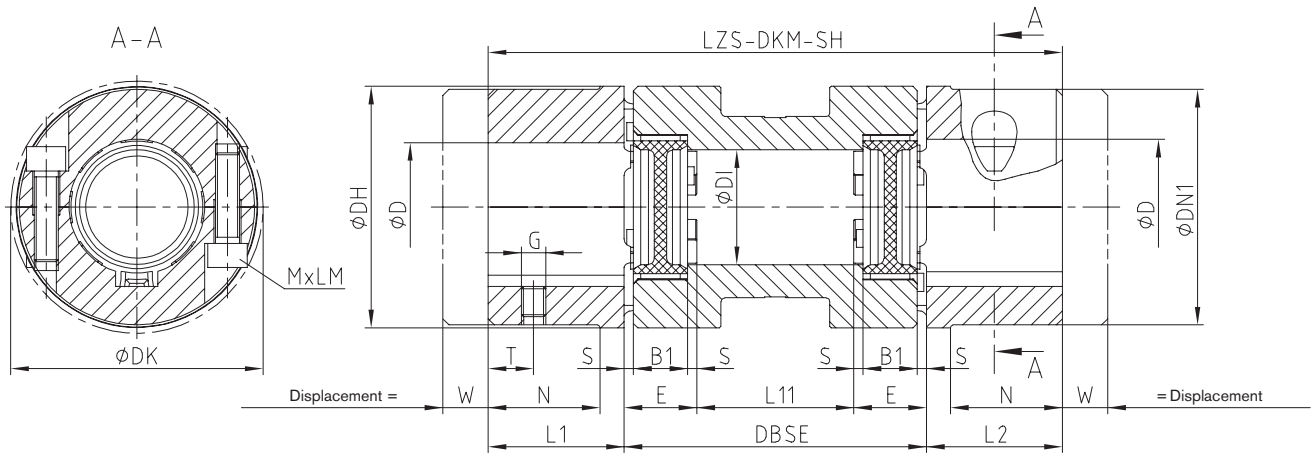
ROTEX® type ZS-DKM-SH

Size [3]	Drop-out center length DBSE [mm]	Finish bore D		Spider 98 Sh A GS T_{KN} [Nm] [1)2)]	Dimensions [mm]											Screws DIN EN ISO 4762		Max. displacements				
																		Axial [mm]	with n = 1500 rpm		with n = 3000 rpm	
		Min.	Max.		DH	DN1	DK	D1	L1, L2	L11	E	B1	S	LZS-DKM-SH	G	W	MxLM	T_A [Nm]		Radial [mm]	Angular [°]	Radial [mm]	Angular [°]
24	100	0	28	35	55	-	57.5	27	30	64	18	14	2.0	160	M5	12	M6x20	14	1.4	1.43		1.07	
	140									104				200						2.13		1.60	
28	100	0	38	95	65	-	73	30	35	60	20	15	2.5	170	M8	12	M8x25	34	1.5	1.40		1.05	
	140									100				210						2.10		1.57	
38	100	24	45	190	80	78	83.5	38	45	52	24	18	3.0	190	M8	15	M8x30	34	1.8	1.33		0.99	
	140									92				230						2.02		1.52	
42	100	24	55	265	95	94	97	46	50	48	26	20	3.0	200	M8	15	M10x35	67	2.0	1.29		0.97	
	140									88				240						2.00		1.49	
48	100	24	60	310	105	104	108.5	51	56	44	28	21	3.5	212	M8	15	M12x40	115	2.1	1.26		0.94	
	140									84				252						1.95	1	1.47	0.75
55	100	24	70	410	120	118	122	60	65	40	30	22	4.0	230	M10	15	M12x45	115	2.2	1.22		0.92	
	140									80				270						1.92		1.44	
	180									120				310						2.62		1.96	
	200									140				330						2.97		2.22	
65	140	24	80	625	135	135	132.5	68	75	70	35	26	4.5	290	M10	15	M12x40	115	2.6	1.83		1.37	
	180									110				330						2.53		1.90	
75	140	40	90	1280	160	160	158	80	85	60	40	30	5.0	310	M10	20	M16x50	290	3.0	1.75		1.31	
	180									100				350						2.44		1.83	
	200									120				370						2.79		2.09	
	250									170				420						3.67		2.75	
90	180	40	110	2400	200	200	197	100	100	90	45	34	5.5	380	M12	20	M20x60	560	3.4	2.36		1.76	
	250									160				450						3.58		2.68	

[1)] Maximum torque of the coupling TK max = rated torque of the coupling TK rated x 2.
[2)] Mathematically transmittable torque with double-cardanic types acc. to 92 Sh-A GS using the higher quality spiders 98 Sh-A GS
[3)] ROTEX-SPLIT hub material sizes 24 and 28 = sintered steel; hub material sizes 38 to 90 = EN-GJL
[4)] Hub type 7.1 = SPLIT hub with feather keyway and thread for setscrews

Ordering example:

ROTEX® 38	ZS-DKM-SH	140	98 ShA-GS	7.1 [4)]	Ø 38	7.1 [4)]	Ø30
Coupling size	Type	Shaft distance dimension DBSE	Spider hardness	Hub type	Finish bore	Hub type	Finish bore


A – A
LZS-DKM-SH
A
ØDH
ØD
ØDI
ØD
ØDN1
G
MxLM
ØDK
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Displacement =
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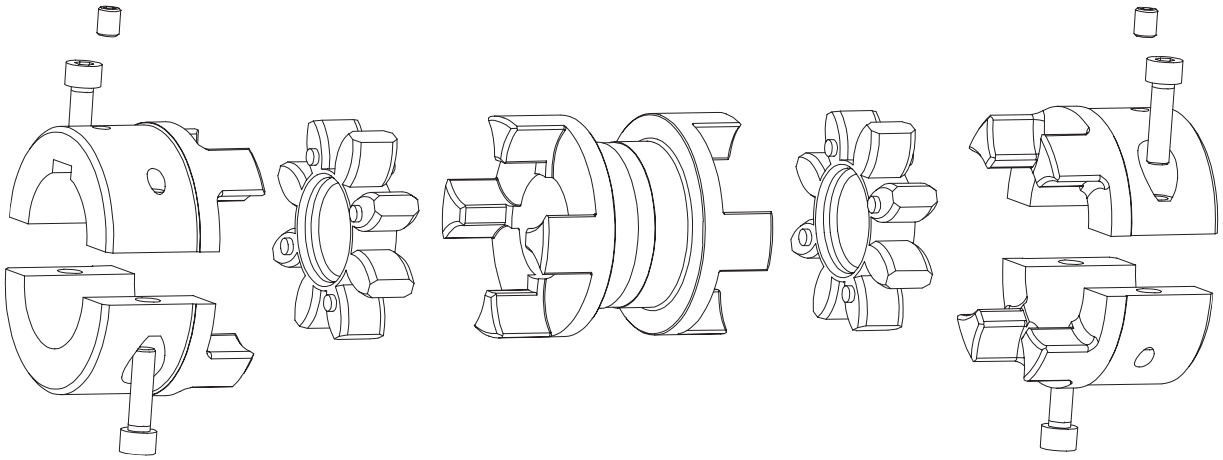
= Displacement
L1
DBSE
L2



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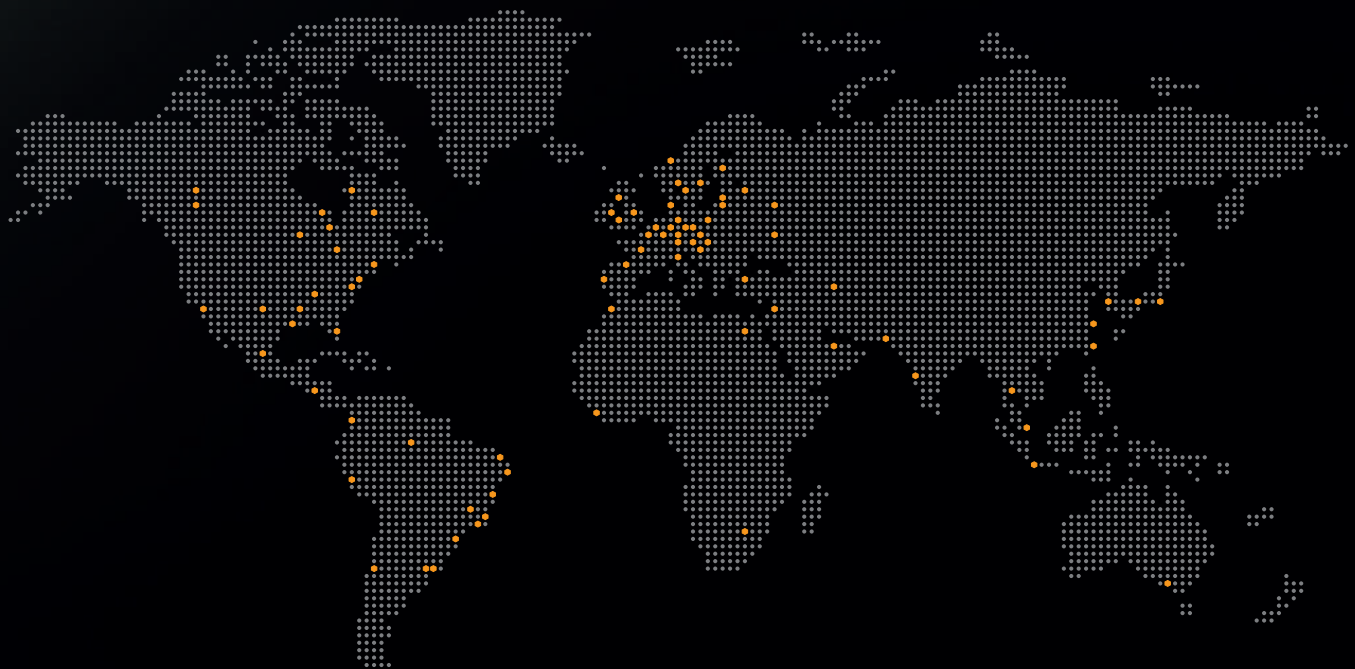

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Made for Motion KTR

Certificates and Approvals

Being one of the first companies in the field of drive technology, KTR was certified in accordance with DIN EN ISO 9001 already in 1993, including the plants in Poland, China, India and USA.

Currently KTR products have been approved by numerous internationally renowned societies for standardization and classification. Individual approvals by other societies can be implemented on request without fail.

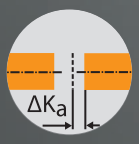
Legend of pictograms

torsionally rigid


Light-weight


Maintenance-free

Torsionally flexible



Axial compensation

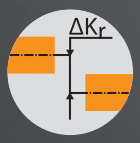

Protected against corrosion

Highly flexible

Angular compensation


Electrically insulating


Damping vibrations



Radial compensation

Maximum speed


Axial plug-in


Shiftable at standstill


No eddy current losses

Consider shaft distance


Double-cardanic

Torque limiter slipping

Relatively short shaft distance


Radial disassembly, ease of service

Torque limiter with synchronous ratching

Maximum operating temperature


Standard drop-out center length

Torque limiter with idle rotation type


High speeds

Available in accordance with API


Hardened surface


Backlash-free

Complying with ATEX
For details refer to our ATEX leaflet

Accuracy X %


Shear type, separating, slipping

Certified in accordance with ABS


Consider axial displacement


Additional features compared to standard version