



coupling type		ZKES 06	ZKES 08	ZKES 10	ZKES 13	ZKES 15	ZKES 17	ZKES 19
T_{KN}	Nm	1850	3150	5000	8000	13000	18000	24000
T_{KNmax}	Nm	3150	5300	8500	10500	21500	24000	40000
n_{max}	1/min	2500	2500	2300	2300	2000	1800	1400
L	mm	387,5	460,5	482,5	507,5	552,5	644	708
ødG	pilot bore	mm	28	38	38	48	58	78
	max. final bore	mm	75	100	100	110	145	190
øDF _{h9}	mm	108	140	140	158	206	235	270
øDH	mm	160	200	200	225	290	320	370
IG1	mm	150	190	190	190	195	235	235
MA ₁	Nm	120	295	295	295	580	580	1000
ødM	pilot bore	mm	28	38	38	48	58	90
	max. final bore	mm	75	95	105	125	150	180
	max. final bore at dyn. balancing	mm	70	85	100	120	145	180
ødM3	mm	108	133	153	180	214	234	260
ødM4	mm	178	213	240	280	318	347	390
IM1	mm	237,5	270,5	292,5	317,5	357,5	409	473
IM3	mm	106	124,5	133,5	141	164	186	225
IM4	mm	6	6	6	6	6	8	8
MA ₂	Nm	lock at mounting, adjustment and maintenance of couplings on page 15						

For Information on Weight, Inertia and for Selection Criteria, please see p 2/2

Weight and Inertia

coupling type		ZKES 06	ZKES 08	ZKES 10	ZKES 13	ZKES 15	ZKES 17	ZKES 19
ØA x b1 brake disc		* type, weight m, weight moment of inertia J						
Ø355x30	kg	52,0						
	kgm ²	0,437						
Ø400x30	kg	58,2	79,8					
	kgm ²	0,658	0,775					
Ø450x30	kg	65,9	87,4	104,4				
	kgm ²	1,007	1,119	1,232				
Ø500x30	kg	74,6	96,2	113,2	152,3			
	kgm ²	1,497	1,611	1,723	2,090			
Ø560x30	kg	86,3	107,8	125,0	164,0	223,3		
	kgm ²	2,316	2,424	2,545	2,910	3,686		
Ø630x30	kg		123,0	140,1	179,4	238,7	295,3	
	kgm ²		3,774	3,887	4,269	5,040	5,875	
Ø710x30	kg		142,9	159,9	199,3	258,6	315,1	415,1
	kgm ²		5,988	6,100	6,495	7,261	8,076	10,067
Ø800x30	kg					283,7	340,1	440,2
	kgm ²					10,830	11,628	13,621

other dimensions upon request
other disc diameter upon request.
all dimensions in mm

* weight and weight moment of inertia applied at max. bore ØdG and ØdM!
alterations reserved!

Information

- The coupling is designed to be driven with electro-motors, medium shocks, irregular load, e.g. for hoisting systems, conveyors, cranes, pumps, ventilators.
- Finished bores according to ISO-fitting H7 (DIN 7161, p. 2), other tolerances upon request.
- Keyways according to DIN 6885/1, tolerance for keyway width = P9 .
- Axial fixing of coupling hub possible with set-screw above the key (upon request) .
- Individual balancing of coupling components available upon request.
Required data when ordering: quality of balance, nominal speed, method of balancing .
- It is recommended to check the fastening torque M_{A1} and M_{A2} regularly to ensure availability of required fastening torque.
- Low maintenance coupling.
Wearing parts: brake disc
Check of grease acc. coupling operating instructions ,if necessary please fill up.
- Take care for permissible shaft displacement, alignment of coupling please refer to operating instructions.

The ZKES- coupling design does provide advantages as follows

- Replacement of disc without axial shifting of motor.
- Compact dimensions, high torques, simple installation.
- Low maintenance due to teeth design with minimum tolerance.
- High temperature stability

Selection of coupling size

- Calculate nominal torque of drive.
- Calculate braking torque and brake disc diameter.
- The nominal torque of the coupling T_{KN} must be higher than the nominal torque of drive.
- The available braking torque respective the drive shock torque must be smaller than T_{Kmax} .
- Check, if the shaft diameters fit with the hub bores.
- Check transmission of torque regarding shaft-hub-connection.
- Care for max. speed and displacement of shaft of coupling combination.
- Check, if the outer diameter dG4 and dM4 of the coupling allows the installation of selected disc brake.

Alterations reserved

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