



D2C - Designed to Customer

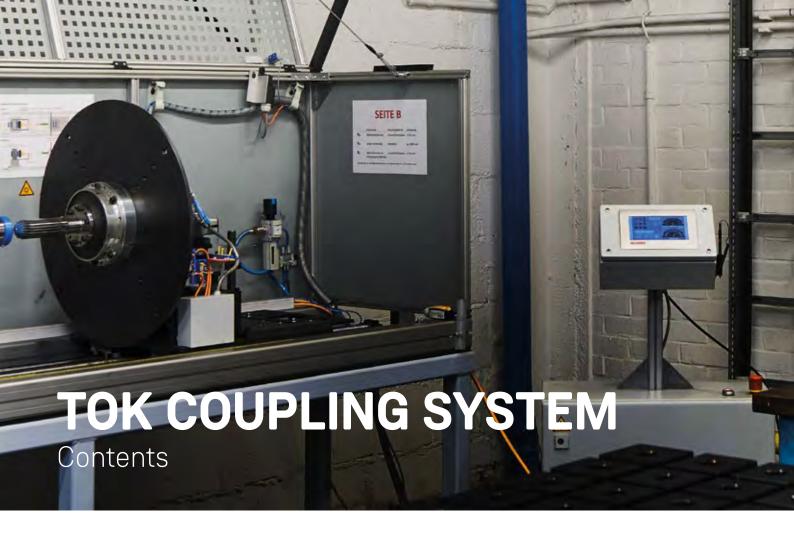
The guiding principle of Designed to Customer is the recipe for success behind REICH. In addition to the catalogue products, we supply our customers with couplings developed to their specific requirements. The designs are mainly based on modular components to provide effective and efficient customer solutions. The special nature of our close cooperation with our partners ranges from; consulting, development, design, manufacture and integration to existing environments, to customer-specific production, logistics concepts and after-sales service - worldwide.

This customer-oriented concept applies to both standard products and production in small batch sizes.

The company policy at REICH embraces, first and foremost, principles such as customer satisfaction, flexibility, quality, prompt delivery and adaptability to the requirements of our customers.

REICH supplies not only a coupling, but a solution: Designed to Customer - SIMPLY **POWERFUL.**





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TOK COUPLING SYSTEM

General Technical Description

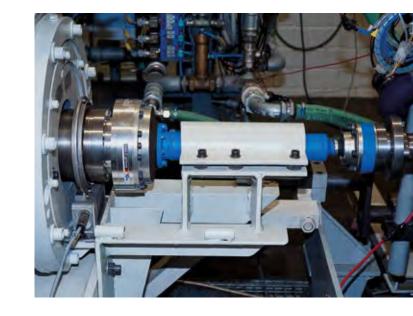
TOK COUPLING SYSTEM

Highly Flexible Coupling Shafts for Test Benches

Test benches have a wide variety of applications in power transmission engineering. They are used to determine properties of test objects in research, development, manufacturing and quality assurance. The drive train components which are predominantly tested on test benches include, but are not limited to, engines, gearboxes, transmission elements and consumables. Given the multitude of testing tasks, the specific requirements for couplings on test benches are quite diverse. The TOK coupling system can be used in almost all applications. and on test benches in particular. The wide range of flexible coupling elements, adaptations and connection shafts ensures that a standard solution is almost always available in a wide variety of different tasks. These can be complemented by specific customised designs on request.

The flexible element is designed to combine high torque transmission capacity with high speed capability. Its torsional stiffness can be adapted to requirements by selecting different types of rubber.

Bearings or integrated joints support the loads arising from the connection between the drive end and the output end. Cardan shafts, constant velocity (CV) shafts and compact shafts are available as connections which also compensate for displacements. Adaptive designs are based on the standard DIN or SAE flange connection dimensions, the CV shaft joints and the torque measuring flanges. The couplings cover a torque range from approx. 100 Nm at 10000 min⁻¹ up to 70000 Nm at 1800 min⁻¹.





TOK COUPLING SYSTEM

Advantages

Salient features and advantages of the highly flexible TOK COUPLING SYSTEMS:

- Elements available in different dynamic torsional stiffnesses
- Suited for highest speeds
- Adaptation to DIN or SAE flanges or according to specification
- Self-centering, backlash-free and maintenance-free
- Optional reduction of the torsional stiffness through the use of 2 elements
- Compensation of axial, radial and angular displacements
- Light-weight construction through the use of high-strength aluminium
- Variable mounting lengths through telescopic intermediate shafts
- For use up to T_KN , depending on the application

Standard Types



- Constant velocity shaft CV (one joint)
- Telescopic length and displacement compensation
- For highest speeds
- Little weight to be supported
- Adapters matched to DIN. SAE or CV
- Adapters for the engine and brake sides



- Cardan shaft with DIN connection
- Telescopic length and displacement compensation
- Adapters matched to DIN. SAE or CV
- Adapters for the engine and brake sides
- Easy bolting of the cardan shaft by means of stay bolts and nuts



- Intermediate shaft. compact design
- Large telescopic length and displacement compensation
- Little weight to be supported
- For highest speeds
- Adapters matched to DIN. SAE or CV
- Adapters for the engine and brake sides

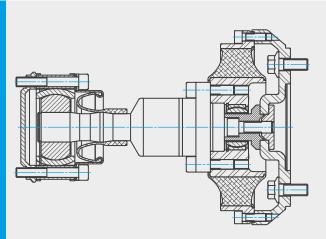
- Short design
- Integrated spherical bearing for angular displacement compensation
- For intermediate shafts similar to S-CV
- For highest speeds
- Little weight to be supported
- Adapter-mounted



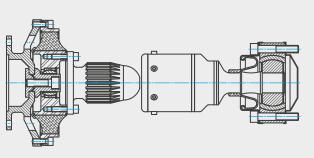
- Short design with DIN connection on the drive end
- Integrated rolling bearing arrangement
- For highest speeds
- For cardan shaft
- Adapter-mounted CV shaft
- Stay bolts for direct cardan shaft connection



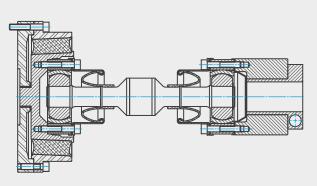
Special Types



- Extremely short design
- Compact connecting flange
- Constant velocity shaft CV
- Minimum weight to be supported

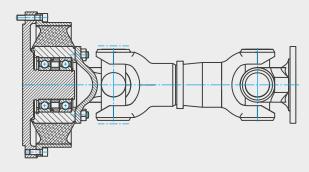


- Easy handling
- For multiple test cells
- Minimised rigging times
- Freely pluggable
- Combinable for different engines
- Short mounting length option
- Large telescopic length option

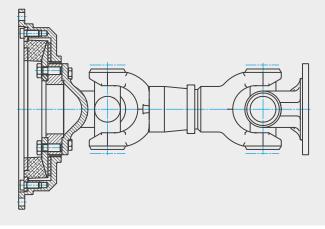


- Extremely short design
- CV shaft joint integrated in the coupling
- Constant velocity shaft CV
- Compact connecting flange
- Shaft connection with hydraulic clamping bush

- Increased speeds possible
- High speeds possible with CV shafts
- Increased displacements possible



- U-joint coupling for cardan shaft
- Highly flexible rubber element
- Integral bearing
- Frictional damping
- Robust design



Technical Layout

Design and Function

The highly flexible, torsionally optimised TOK couplings are specifically designed for use on test benches.

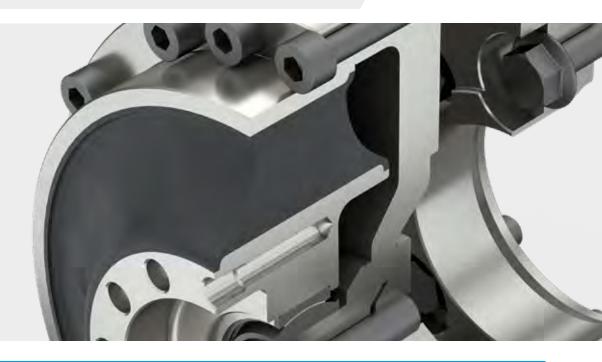
Radial and axial loads are supported by the bearing arrangement (2) towards the output end. Low-backlash spherical bearings (2a) centre the ends relative to each other in a true running manner. Alternatively, the spherical bearings (TOK-S) can be replaced by an integrated rolling bearing (TOK-B) (2b). The highly flexible coupling element (3) is designed as a rubber-metal bond between the inner sleeve (3a), the rubber element (3b) and the outer ring (3c). When torque acts on the drive side, the flexibility of the rubber element enables relative twisting against the output side. Torsional vibrations from the drive are thus efficiently de-coupled from the output side.

Besides the standard types customised special solutions can also be realised with the TOK coupling systems.

TOK layout and materials



TOK Materials



Materials Overview

Part No.	Designation	Materials
1	Coupling flange, output side	High-strength aluminium
2	Bearing arrangement	-
2a	Spherical bearing	Steel (maintenance-free)
2b	Rolling Bearing	Composite material (maintenance-free)
3	Flexible element	-
3a	Inner sleeve	High-strength aluminium/steel
3b	Rubber body	Rubber according to general technical data
3c	Outer ring	High-strength aluminium/steel

Technical Note

The technical data applies only to the complete coupling or the corresponding coupling elements. It is the customer's/user's responsibility to ensure there are no inadmissible loads acting on any of the components. In particular, existing connections, e.g. bolted connections, must be checked with regard to the torques to be transmitted. If necessary, further measures, such as additional reinforcement with pins, may be necessary. It is the customer's/ user's responsibility to make sure the dimensioning of the shaft and keyed or other connection, e.g. shrinking or clamping connection, is correct. All components that can rust are protected against corrosion as standard.

REICH have an extensive range of couplings and coupling systems to cover nearly every drive configuration. Customized solutions can be developed and manufactured even in small batches or as prototypes. In addition calculation programs are available for all necessary dimensioning.

General Technical Data



Standard Type						
Coupling size	Nominal torque	Maximum torque	Continuous fatigue torque	Dynamic Torsional Stiffness ^{1) 4)}	Permissible power loss ²⁾	Maximum speed
	T _{KN}	T _{K max}	T _{KW (10 Hz)}	C _{T dyn}	P _{KV} (30°)	n _{max}
	[Nm]	[Nm]	[Nm]	[Nm/rad]	[w]	[min ⁻¹]
TOK 100 - 135 ⁴⁾	100	250	60	135	50	10 000
TOK 250 - 280	250	625	80	280	45	10 000
TOK 350 - 600	350	875	135	600	60	10 000
TOK 500 - 1050	500	1250	170	1050	60	10 000
TOK 600 - 1150	600	1500	200	1150	70	10 000
TOK 700 - 1500	700	1750	230	1500	70	10 000
TOK 1000 - 2400	1000	2500	330	2400	90	10 000
TOK 1600 - 4800	1600	4000	510	4800	100	8 000
TOK 2200 - 5300	2200	5500	690	5300	180	6 000
TOK 3400 - 11000	3 400	8500	1000	11 000	180	5000
TOK 5000 - 11500	5000	12500	1650	11500	450	5 000
TOK 8000 - 24000 ³⁾	8000	20 000	2500	24000	500	4000
TOK 18000 - 56000 ³⁾	18 000	45 000	5 400	56000	1000	3500
TOK 35000 - 140000 ³⁾	35 000	87 500	8750	140 000	1000	3000
TOK 70000 - 360000 ³⁾	70 000	175 000	22 000	360 000	2500	1800



2) Permissible power loss up to 1 hour

3) Coupling dimensions and data on request

4) The stiffness may deviate by up to 20% due to manufacturing and material tolerances according to DIN <math>53505

Shore hardness Sh A and relative damping Ψ

Element version	Sh A	Ψ
HN	48	0.40

i Due to the physical properties of the rubber material, the measurable rubber hardness is subject to a variation that is defined as ± 5° Shore A according to DIN 53505. However, this variation is minimized by our own rubber production.

Other version on request.

Selection of the Coupling Size

In selecting the coupling size the following should be satisfied:

The nominal torque of the coupling T_{KN} must be taken into account at every temperature and operating load of the coupling, whilst observing the service factors S (e.g. temperature factor S_t) shall be at least equal to the maximum nominal torque on the drive side T_{AN}; the temperature in the immediate vicinity of the coupling must be taken into account.

$$T_{KN} \ge T_{AN} \cdot S_t \cdot S_B$$

 \blacksquare A safety factor of S_M = 1.3 should be applied if the coupling size is pre-selected based on the continuous engine power to be transmitted. For the layout, it is recommended to consider the nominal \mathbf{engine} \mathbf{drive} \mathbf{torque} $\mathbf{T_{AN}}$ and the maximum coupling torque occurring in operation. The coupling size selection for test bench applications should be verified by a torsional vibration analysis which we will conduct on request. For compiling the details, please use the sheet "Details for coupling selection and torsional vibration analysis" on the last page. For long test bench shafts, the bending critical speed may also have to be taken into account. In principle, it is the responsibility of the operator to comply with the safety regulations applicable to the specific use.

$$T_{AN}[Nm] = 9550 \frac{P[kW]}{n[min^{-1}]} \cdot S_{M}$$

 \Box The **temperature factor S_{t}** allows for the decreasing load capacity of the coupling when affected by elevated ambient temperatures in the vicinity of the coupling.

Temperature t	60 °C	70 °C	80 °C	>80 °C
S _t	1.25	1.4	1.6	on request

A continuous torsional vibration analysis to verify the coupling selection should confirm that the permissible continuous fatigue torque T_{KW} is at least equal to the highest fatigue torque T_{W} under reversing stresses encountered throughout the operating speed range while taking into account the temperature and frequency.

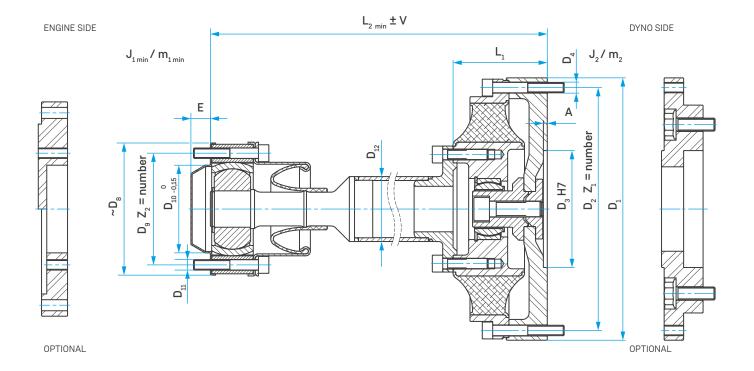
$$T_{KW (10 Hz)} \ge T_W \cdot S_f \cdot S_t$$

 \blacksquare The **frequency factor S_f** allows for the frequency dependence of the permissible continuous fatigue torque under reversing stresses $T_{KW (10 \text{ Hz})}$ with an operating frequency f_x .

$$S_f = \sqrt{\frac{f_x}{10}}$$

Take care not to continuously operate the system at the resonance frequency of the test bench to avoid damage to the coupling, the test objects and the test bench components.

TOK Type - S - CV



i For adapter dimensions see page 24

Coupling dimensions, drive side and output side

Coupling size			CV con	nection								
	D ₈	D ₉	Z ₂	D ₁₁	D ₁₀	E	D ₁	D ₂	Z_1	D ₄	D ₃	A
	[mm]	[mm]			[mm]	[mm]	[mm]	[mm]			[mm]	[mm]
250-280	103	86.0	6	M8	67.5	15	182	170.0	12	M6	90	3
350-600	103	86.0	6	M8	67.5	15	168	156.0	12	M6	90	3
500-1050	103	86.0	6	M8	67.5	15	202	187.0	12	M8	90	3
600-1150	103	86.0	6	M8	67.5	15	202	187.0	12	M8	90	3
700-1500	103	86.0	6	M8	67.5	15	202	187.0	12	M8	90	3
1000-2400	111	94.0	6	M10	81.0	16	228	210.0	12	M8	90	3
1600-4800	131	108.0	6	M12	90.0	20	269	252.0	12	M8	90	3
2200-5300	131	108.0	6	M12	90.0	20	305	286.0	12	M8	90	3
3400-11000	150	128.0	6	M12	112.0	25	373	345.0	12	M12	90	3
5000-11500	188	155.5	6	M16	136.0	26	472	438.2	16	M12	140	3

Coupling details

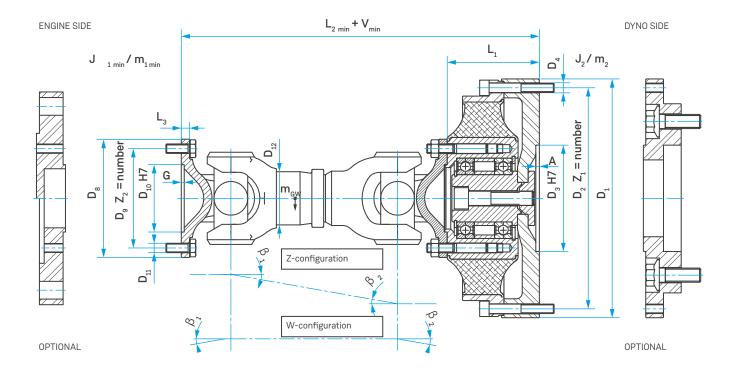
Coupling size	L ₁ [mm]	L _{2 min} 1) [mm]	D ₁₂ [mm]	Joint size CV shaft	V [mm]	J _{1 min} [kgm²]	m _{1 min} [kg]	J ₂ [kgm ²]	m ₂ [kg]
250-280	71	277	50	CV13	11.0	0.0040	2.6	0.0100	3.8
350-600	64	231	50	CV13	11.0	0.0043	2.4	0.0070	3.4
500-1050	73	240	50	CV13	11.0	0.0060	2.4	0.0180	5.3
600-1150	78	245	50	CV13	11.0	0.0062	2.4	0.0180	5.3
700-1500	86	253	50	CV13	11.0	0.0065	2.5	0.0190	5.5
1000-2400	85	255	60	CV15	8.0	0.0120	3.2	0.0260	6.6
1600-4800	86	264	70	CV21	12.0	0.0260	5.1	0.0500	9.3
2200-5300	99	277	70	CV21	12.0	0.0370	5.2	0.0960	14.0
3400-11000	100	348	90	CV30	12.5	0.0920	8.4	0.2100	23.0
5000-11500	130	415	100	CV32	12.5	0.1800	13.0	0.6300	35.0

i 1) Alternative lengths on request

₹ /	Ordering example				
	ing size nal torque of the coupling	Dynamic torsional stiffness of the coupling	Bearing version (S = spherical bearing)	Constant velocity shaft size	Total length of the coupling without adapter (L ₂)
TOK6	00	- 1150 -	S -	CV13 -	245

Coupling designation: TOK600 - 1150 - S - CV13 - 245

TOK Type - B - CS



i For adapter dimensions see page 24

Coupling dimensions, drive side and output side

Coupling size			DIN cor	nection								
	D ₈	D ₉	Z ₂	D ₁₁	D ₁₀	G	D ₁	D ₂	Z ₁	D ₄	D ₃	Α
	[mm]	[mm]			[mm]	[mm]	[mm]	[mm]			[mm]	[mm]
250-280	100	84.0	6	M8	57	2.5	182	170.0	12	M6	90	3
350-600	90	74.5	4	M8	47	2.5	168	156.0	12	M6	90	3
500-1050	100	84.0	6	M8	57	2.5	202	187.0	12	M8	90	3
600-1150	100	84.0	6	M8	57	2.5	202	187.0	12	M8	90	3
700-1500	100	84.0	6	M8	57	2.5	202	187.0	12	M8	90	3
1000-2400	120	101.5	8	M10	75	2.5	228	210.0	12	M8	90	3
1600-4800	150	130.0	8	M12	90	3.0	269	252.0	12	M8	90	3
2200-5300	150	130.0	8	M12	90	3.0	305	286.0	12	M8	90	3
3400-11000	180	155.5	8	M16	110	3.6	373	345.0	12	M12	90	3
5000-11500	180	155.5	10	M16	110	3.6	472	438.2	16	M12	140	3

Coupling details

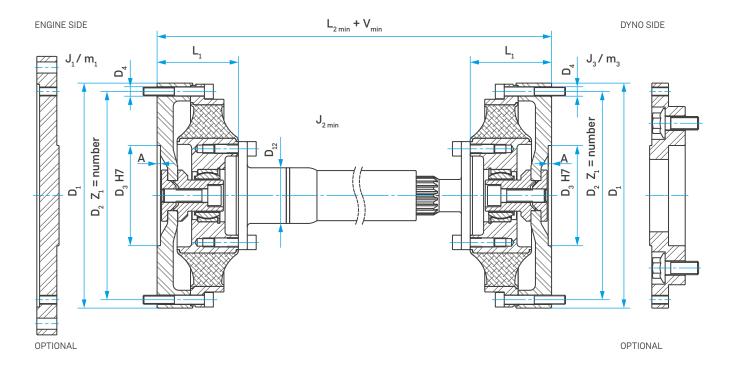
Coupling size	L ₁	L _{2 min} 1) 2)	L ₃	D ₁₂	V _{min} 2)	J _{1 min} 2)	m ₁ ²⁾	J ₂	m ₂ ²⁾	n _{max} 3)
	[mm]	[mm]	[mm]	[mm]	[mm]	[kgm ²]	[kg]	[kgm ²]	[kg]	[min ⁻¹]
250-280	92	325	7	50	17	0.0053	2.0	0.0100	6.4	7000
350-600	64	297	6	50	17	0.0046	1.9	0.0070	5.5	7000
500-1050	73	336	7	50	22	0.0086	2.5	0.0180	8.5	7000
600-1150	78	341	7	50	22	0.0090	2.5	0.0190	8.8	7000
700-1500	86	349	7	50	22	0.0100	2.5	0.0190	9.6	7000
1000-2400	82	435	9	70	27	0.0260	5.6	0.0250	15.0	5500
1600-4800	86	454	10	80	32	0.0590	7.8	0.0510	22.0	4500
2200-5300	99	507	12	90	42	0.0980	10.0	0.0970	30.0	4000
3400-11000	100	578	14	110	47	0.2500	18.0	0.2100	51.0	2500
5000-11500	140	618	14	110	47	0.3800	18.0	0.7600	77.0	2300

- i 1) Alternative lengths/telescopic lengths on request
 - 2) Shortest mounting length which can be pushed together by at least another 8 mm
 - 3) The maximum speed exclusively applies to the design as shown. For the speed reduction for other cardan shafts, see page 24. Alignment $\beta_1 = \beta_2 \le 1^\circ$. Cardan shaft with a balancing grade of G 6.3 according to DIN ISO 21940

₹	Ordering example					
	ling size nal torque of the coupling	Dynamic torsional stiffness of the coupling	Bearing version (B = rolling bearing)	DIN connection of the cardan shaft	Total length of the coupling without adapter (L ₂)	Telescopic length of the coupling
TOK6	600	- 1150 -	В-	CS100 -	341 -	V22

Coupling designation: TOK600 - 1150 - B - CS100 - 341 - V22

TOK Type - S - I



i For adapter dimensions see page 24

Coupling dimen	sions, drive side	and output side				
Coupling size	D_1	D ₂	Z_1	D ₄	D_3	А
	[mm]	[mm]			[mm]	[mm]
250-140	182	170.0	12	M6	90	3
350-300	168	156.0	12	M6	90	3
500-525	202	187.0	12	M8	90	3
600-575	202	187.0	12	M8	90	3
700-750	202	187.0	12	M8	90	3
1000-1200	228	210.0	12	M8	90	3
1600-2400	269	252.0	12	M8	90	3
2200-2650	305	286.0	12	M8	90	3
3400-5500	373	345.0	12	M12	90	3
5000-5750	472	438.2	16	M12	140	3

Coupling detai	Coupling details												
Coupling size	L ₁	L _{2 min} 1) 2)	D ₁₂	V min 1)	J ₁	m ₁ ²⁾	J _{2 min} ²⁾	J ₃	m ₃ ²⁾				
	[mm]	[mm]	[mm]	[mm]	[kgm ²]	[kg]	[kgm ²]	[kgm ²]	[kg]				
250-140	71	320	40	32	0.0100	3.6	0.0020	0.0100	3.7				
350-300	64	328	40	32	0.0070	3.4	0.0028	0.0070	3.6				
500-525	73	374	50	32	0.0180	5.5	0.0065	0.0180	5.8				
600-575	78	384	50	32	0.0180	5.5	0.0069	0.0180	6.0				
700-750	86	400	50	32	0.0190	6.0	0.0076	0.0190	6.3				
1000-1200	85	448	70	32	0.0260	7.9	0.0160	0.0260	8.9				
1600-2400	86	450	80	32	0.0500	11.0	0.0340	0.0500	12.0				
2200-2650	99	596	90	32	0.0960	17.0	0.0610	0.0960	19.0				
3400-5500	100	558	100	32	0.2100	25.0	0.1500	0.2100	27.0				
5000-5750	130	618	110	32	0.6300	39.0	0.2700	0.6300	42.0				

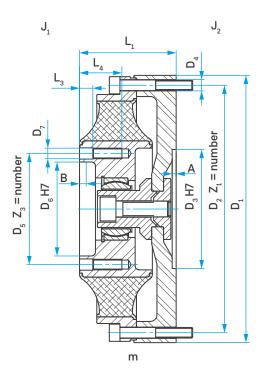
1) Alternative lengths/telescopic lengths on request

2) Shortest mounting length

€ `	Ordering example					
	ling size nal torque of the coupling	Dynamic torsional stiffness of the coupling	Bearing version (S = spherical bearing)	Telescopic shaft as spacer	Total length of the coupling without adapter (L ₂)	Telescopic length of the coupling
TOK6	00	- 575 -	S -	l -	384 -	V32

Coupling designation: TOK600 - 575 - S - I - 384 - V32

TOKType - S



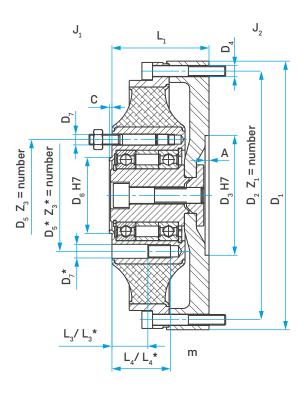
Coupling dime	ensions, drive	side and o	utput side						
Coupling size	D ₅	Z ₃	D ₇	D ₆	D ₁	D ₂	Z_1	D ₄	D ₃
	[mm]			[mm]	[mm]	[mm]			[mm]
250-280	56.0	12	M6	43	182	170.0	12	M6	90
350-600	66.0	8	M8	53	168	156.0	12	M6	90
500-1050	84.0	12	M8	71	202	187.0	12	M8	90
600-1150	84.0	12	M8	71	202	187.0	12	M8	90
700-1500	84.0	12	M8	71	202	187.0	12	M8	90
1000-2400	101.5	12	M10	75	228	210.0	12	M8	90
1600-4800	108.0	12	M12	85	269	252.0	12	M8	90
2200-5300	130.0	12	M12	104	305	286.0	12	M8	90
3400-11000	155.5	10	M16	110	373	345.0	12	M12	90
5000-11500	155.5	14	M16	110	472	438.2	16	M12	140

Coupling details	Coupling details							
Coupling size	L ₁	L ₃	L ₄	А	B _{min}	J ₁	J ₂	m
	[mm]	[mm]	[mm]	[mm]	[mm]	[kgm ²]	[kgm ²]	[kg]
250-280	71	9	23	3	5	0.0007	0.0100	2.8
350-600	64	10	26	3	5	0.0010	0.0073	2.6
500-1050	73	10	32	3	5	0.0021	0.0180	4.1
600-1150	78	10	32	3	5	0.0022	0.0180	4.2
700-1500	86	12	32	3	5	0.0025	0.0190	4.5
1000-2400	85	12	30	3	5	0.0042	0.0270	5.0
1600-4800	86	16	34	3	5	0.0120	0.0500	7.0
2200-5300	99	16	34	3	5	0.0200	0.0970	11.0
3400-11000	100	20	44	3	5	0.0530	0.2100	17.0
5000-11500	130	30	50	3	5	0.1000	0.6300	29.0

	l	1	I	1	ı	1	l	
₹ `	Ordering example							
	ling size nal torque of the coupling	Dynamic torsional stiffness of the coupling	Bearing version (S = spherical bearing)					
TOKE	600	- 1150 -	S					

Coupling designation: TOK600 - 1150 - S

TOK Type - B



Coupling dime	nsions, dr	ive side	and outp	out side								
Coupling size	D ₅	D ₅ *	Z ₃	Z ₃ *	D ₇	D ₇ *	D ₆	D ₁	D ₂	Z ₁	D ₄	D ₃
	[mm]	[mm]					[mm]	[mm]	[mm]			[mm]
250-280	84.0	-	6	-	M8	-	57	182	170.0	12	M6	90
350-600	74.5	74.5	4	4	M8	M8	47	168	156.0	12	M6	90
500-1050	84.0	84.0	6	6	M8	M10	57	202	187.0	12	M8	90
600-1150	84.0	84.0	6	6	M8	M10	57	202	187.0	12	M8	90
700-1500	84.0	84.0	6	6	M8	M10	57	202	187.0	12	M8	90
1000-2400	101.5	-	8	-	M10	-	75	228	210.0	12	M8	90
1600-4800	130.0	-	8	-	M12	-	90	269	252.0	12	M8	90
2200-5300	130.0	130.0	8	8	M12	M14	90	305	286.0	12	M8	90
3400-11000	155.5	-	8	-	M16	-	110	373	345.0	12	M12	90
5000-11500	155.5	-	10	-	M16	-	110	472	438.2	16	M12	140

i For the permissible speeds and attached weights see page 24

Coupling deta	Coupling details									
Coupling size	L ₁	L ₃	L ₃ *	L ₄	L ₄ *	А	С	J ₁	J ₂	m
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kgm ²]	[kgm ²]	[kg]
250-280	92	9.0	-	23	-	3	2.0	0.0024	0.0100	4.4
350-600	64	35.0	35.0	47	47	3	2.0	0.0022	0.0070	3.6
500-1050	73	33.9	30.3	47	55	3	2.0	0.0044	0.0180	5.8
600-1150	78	33.9	30.3	47	48	3	2.0	0.0048	0.0190	6.1
700-1500	86	33.9	30.3	47	48	3	2.0	0.0060	0.0190	6.9
1000-2400	82	30.3	-	48	-	3	2.0	0.0110	0.0250	8.7
1600-4800	86	37.4	-	56	-	3	2.5	0.0320	0.0510	14.0
2200-5300	99	35.3	33.5	58	58	3	2.5	0.0590	0.0970	20.0
3400-11000	100	39.9	-	66	-	3	3.0	0.1500	0.2100	32.0
5000-11500	140	39.9	-	65	-	3	3.0	0.2800	0.7600	58.0

4 /i	Ordering example		
	ling size inal torque of the coupling	Dynamic torsional stiffness of the coupling	Bearing version (S = spherical bearing)
TOK6	800	- 1150 -	В

Coupling designation: TOK600 - 1150 - B

Adapter dimension tables

Optional DIN standard adapters, output side

Coupling size	Adapter connections Output side			Ac	Adapter connections Output side			Adapter connections Output side		
	DIN	J ₄ [kgm ²]	m ₄ [kg]	DIN	J ₄ [kgm ²]	m ₄ [kg]	DIN	J ₄ [kgm ²]	m ₄ [kg]	
250-280	90	0.0048	1.3	100	0.0050	1.4	120	0.0055	1.5	
350-600	90	0.0036	1.0	100	0.0037	1.0	120	0.0038	1.0	
500-1050/ 600-1150/ 700-1500	100	0.0073	1.6	120	0.0078	1.7	150	0.0091	1.8	
1000-2400	120	0.0110	1.8	150	0.0120	1.9	180	0.0140	2.0	
1600-4800	120	0.0220	2.4	150	0.0220	2.4	180	0.0260	3.2	
2200-5300	120	0.0360	3.4	150	0.0380	3.6	180	0.0400	3.8	
3400-11000	150	0.1310	7.4	180	0.1310	7.4	225	0.1360	7.8	
5000-11500	180	0.3400	12.1	225	0.3420	11.9	250	0.3470	12.4	

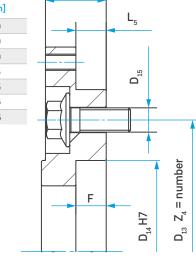
4 /i	Ordering example					
Dyna	mometer side	DIN120				
D		120				

- Adapter designation: TOK350 - D - 120

DIN adapter dimensions, output side

Size DIN	D ₁₃	Z ₄	D ₁₅	D ₁₄	L ₄ ¹⁾	L ₅	F _{min}
	[mm]			[mm]	[mm]	[mm]	[mm]
90	74.5	4	M8	47	30	15	3.0
100	84.0	6	M8	57	30	15	3.0
120	101.5	8	M10	75	30	15	3.0
150	130.0	8	M12	90	30	15	3.5
180	155.5	8	M14	110	30	15	4.5
225	196.0	8	M16	140	30	15	5.5
250	218.0	8	M18	140	30	15	6.5

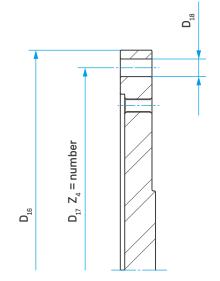
i 1) If necessary different for TOK3400 and TOK5000



Flywheel adapter SAE J 620, drive side

Engine flywheel SAE J 620

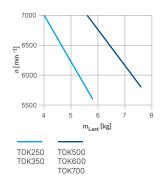
Size	D ₁₆	D ₁₇	D ₁₈	Z ₄
	[mm]	[mm]	[mm]	
8	263.5	244.5	10	6
10	314.3	295.3	10	8
11.5	352.4	333.4	10	8
14	466.7	438.2	12	8
18	571.5	542.9	16	6

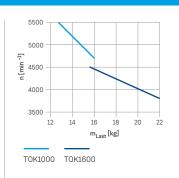


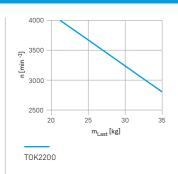
ĕ ₩	Ordering ex	ample		
Nomi coupl	nal torque of the ing	engine side	SAE8	
TOK10	000 -	E -	8	

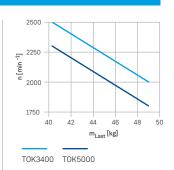
Adapter designation: TOK1000 - E - 8

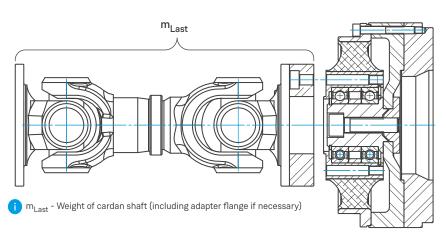
Dependence of speed on weight load







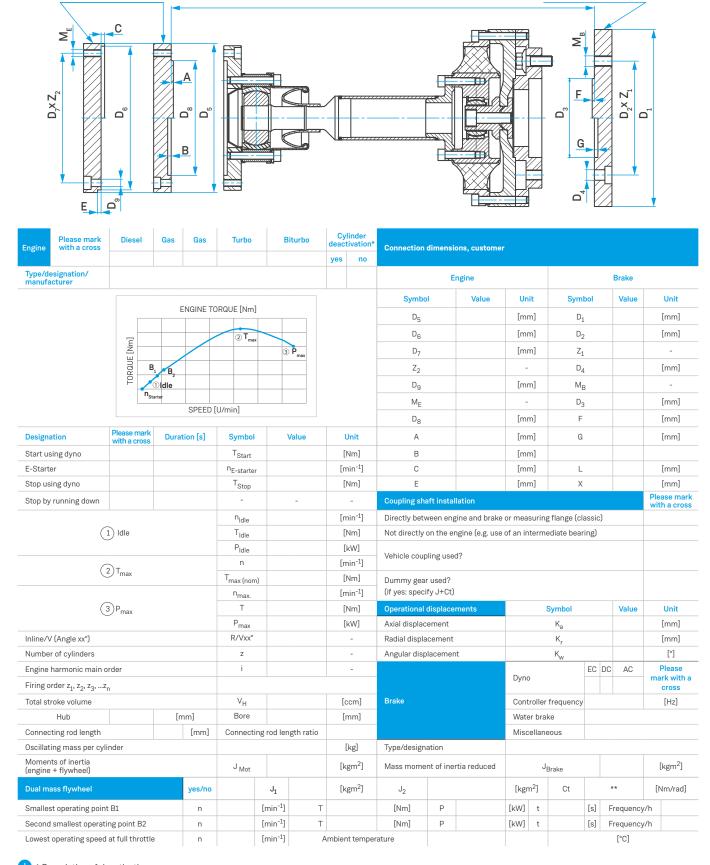




Customer connection

Engine side

Data Required for Coupling Size Selection



Installation length between the connecting flanges

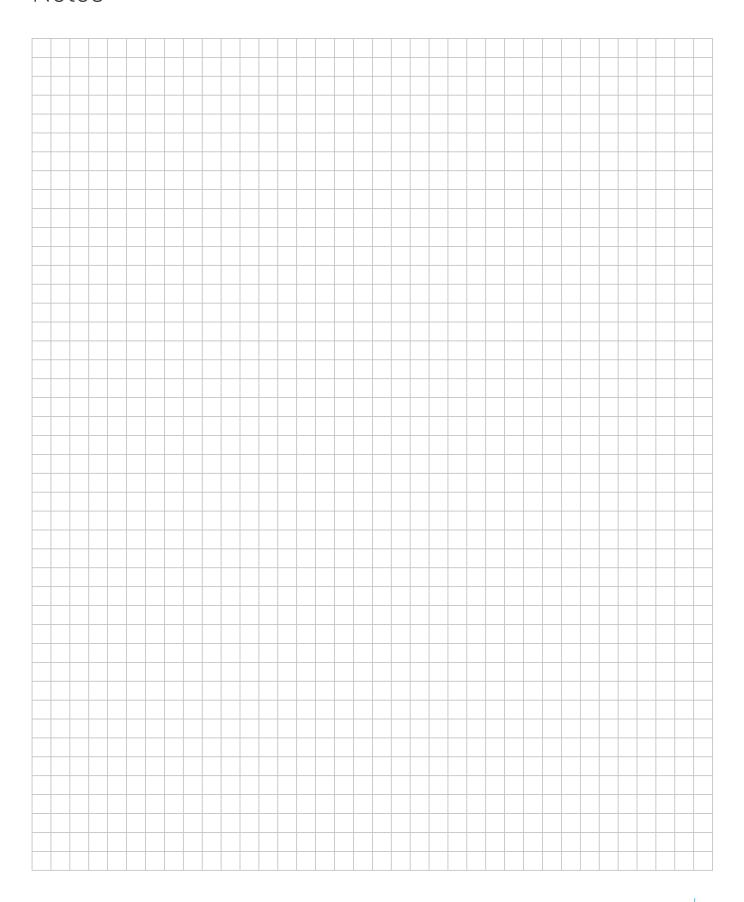
Customer connection

Brake side

^{*} Description of deactivation

^{**} Provide dual mass flywheel characteristic curve

Notes





TOK COUPLING SYSTEM

SIMPLY POWERFUL. -



Industrial solutions:

Power generation

Mobile applications

Test benches

Pumps & compressors

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Ship & port engineering

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