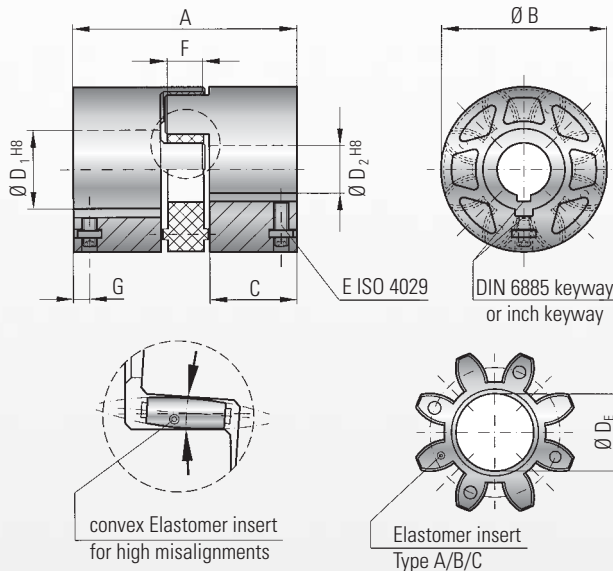


# MODEL TX 1



### Properties:

- Low moment of inertia
- Economically priced
- Corrosion resistant
- Low backlash, due to keyway connection
- Electrically insulating
- Vibration damping

### Material:

Hubs: high strength fiber reinforced plastic  
Elastomer insert: precision molded wear resistant and thermally stable polymer

### Design:

Two couplings hubs concentrically molded with concave driving jaws  
Bore tolerance H8 + keyway + clamping set screw

### Speed:




See below, higher speeds on request

### Tolerance:

On the hub/shaft connection max. 0.1 mm

### Temperature:




-20°C to +100°C

Model TX 1	Series																	
	10			20			60			150			300					
	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C			
Elastomer insert																		
Rated torque (Nm)	$T_{KN}$			12,5	16	4	17	21	6	60	75	20	160	200	42	325	405	84
Max. torque (Nm)	$T_{Kmax}$			25	32	6	34	42	12	120	150	35	320	400	85	650	810	170
Overall length (mm)	A			35			66			78			90			114		
Outer diameter (mm)	B			32			42			56			66,5			82		
Mounting length (mm)	C			12			25			30			35			45		
Inner diameter possible from - to (mm)	$D_{1/2}$			6 - 16			10 - 24			16 - 30			19 - 38			20 - 45		
Inner diameter max. (elastomer) (mm)	$D_E$			14,2			19,2			27,2			30,2			38,2		
Set screw ISO 4029	E			M3			M4			M5			M6			M6		
Tightening torque (Nm)	E			0,8			1,5			3			6			6		
Width elastomer insert (mm)	F			9,5			12			14			15			18		
Distance (mm)	G			3,5			4			6			7			7		
Moment of inertia (hub) ( $10^{-3}$ kgm <sup>2</sup> )	$J_v/J_2$			0,0014			0,01			0,03			0,067			0,18		
Approx. weight (kg)				0,03			0,08			0,18			0,27			0,51		
Speed (rpm)				10.000			9.000			8.000			7.000			6.000		
Static torsional stiffness (Nm/rad)	$C_T$			260	600	90	1140	2500	520	3290	9750	1400	4970	10600	1130	12400	18000	1280
Dynamic torsional stiffness (Nm/rad)	$C_{Tdyn}$			541	1650	224	2540	4440	876	7940	11900	1350	13400	29300	3590	23700	40400	6090
Lateral  (mm)	Max. values			0,2	0,17	0,2	0,2	0,2	0,22	0,22	0,25	0,25	0,25	0,25	0,28	0,28	0,28	0,3
Angular  (degree)	Max. values			1,5			1,5			1,5			1,5			1,5		
Axial  (mm)	Max. values			±1			±1,5			±1,5			±2			±2		

Static torsional stiffness at 50%  $T_{KN}$

Dynamic torsional stiffness at  $T_{KN}$

1 Nm = 8,85 lbs

The prebored bore diameter depends on the inner structure					
Series	10	20	60	150	300
 <b>Structure I</b> from Ø to Ø	6 - 12.9	10 - 14.9	16 - 20.9	19 - 26.9	20 - 28.9
 <b>Structure II</b> from Ø to Ø	13 - 16	15 - 19.9	21 - 25.9	27 - 33.9	29 - 38.9
 <b>Structure III</b> from Ø to Ø		20 - 24	26 - 30	34 - 38	39 - 45

### Ordering example

TX1 / 60 / A / 20 / 25.4 / XX

Model  
Series  
Type Elastomer insert  
Bore Ø D1 H8  
Bore Ø D2 H8  
Non standard e.g. ATEX