DESCRIPTION OF THE ELASTOMER TYPES

Design	Shore hardness	Color	Material	Relative damping (µ)	Temperature range	Features
A	98 Sh A	red	TPU	0.4 - 0.5	-30°C to +100°C	high damping
B	64 Sh D	green	TPU	0.3 - 0.45	-30°C to +120°C	high torsional stiffness
D	65 Sh D	black	TPU	0.3 - 0.45	-10°C to + 70°C	electrically conductive

The values of the relative damping were determined at 10 Hz and +20° C.

ES2 | ESL

SIZE			5		10		20		60		150		300		450		800		1500	
Elastomer type			A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
Static torsional stiffness	(Nm/rad)	C_T	150	350	260	600	1140	2500	3290	9750	4970	10600	12400	18000	15100	27000	41300	66080	87600	109000
Dynamic torsional stiffness	(Nm/rad)	C_{Tdyn}	300	700	541	1650	2540	4440	7940	11900	13400	29300	23700	40400	55400	81200	82600	180150	17500	216000
Lateral	± (mm)	Max. values	0.08	0.06	0.1	0.08	0.1	0.08	0.12	0.1	0.15	0.12	0.18	0.14	0.2	0.18	0.25	0.2	0.5	0.3
Angular	± (Degree)		1	0.8	1	0.8	1	0.8	1	0.8	1	0.8	1	0.8	1	0.8	1	0.8	1.5	1
Axial	± (mm)		± 1		± 1		± 2		± 2		± 2		± 2		± 2		± 2		± 3	

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

SLE

SIZE			30		60		150		300	
Elastomer type			A	B	A	B	A	B	A	B
Static torsional stiffness	(Nm/rad)	C_T	3290	9750	4970	10600	12400	18000	15100	27000
Dynamic torsional stiffness	(Nm/rad)	C_{Tdyn}	7940	11900	13400	29300	23700	40400	55400	81200
Lateral	± (mm)	Max. values	0.12	0.1	0.15	0.12	0.18	0.14	0.2	0.18
Angular	± (Degree)		1	0.8	1	0.8	1	0.8	1	0.8
Axial	± (mm)		± 2		± 2		± 2		± 2	

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

ES2 | MAXIMUM TRANSMITTABLE TORQUE (Nm) OF THE CLAMPING HUB DEPENDS ON THE BORE DIAMETER (mm)

Size	Ø 4	Ø 5	Ø 8	Ø 16	Ø 19	Ø 25	Ø 30	Ø 32	Ø 35	Ø 45	Ø 50	Ø 55	Ø 60	Ø 65	Ø 70	Ø 75	Ø 80	Ø 85	Ø 90
5	1.5	2	8																
10		4	12	32															
20			20	35	45	60													
60				50	80	100	110	120											
150					120	160	180	200	220										
300					200	230	300	350	380	420									
450							420	480	510	600	660	750	850						
800									700	750	800	835	865	900	925	950	1,000		
1500									1,900	2,600	2,900	3,200	35,00	3,800	4,000	4,300	4,600	4,900	5,200

Higher torque possible with keyways

SLE | MAXIMUM TRANSMITTABLE TORQUE (Nm) OF THE CLAMPING HUB DEPENDS ON THE BORE DIAMETER (mm)

Size	Ø 12	Ø 15	Ø 20	Ø 25	Ø 30	Ø 35	Ø 40	Ø 45	Ø 50	Ø 55	Ø 60
30	30	55	80	110	130						
60		80	120	160	200	220					
150			200	250	300	350	400	450			
300				350	430	510	590	670	750	830	910

ORDERING EXAMPLE	SLE | ES2	60	A	W	30	19.05	80	40-100	XX
Model	●								Special designation only (e.g. special bore tolerance).
Size		●							
Elastomer insert type			●						
Function system				●					
Bore D1 H7					●				
Bore D2 H7						●			
Disengagement torque Nm							●		
Torque adjustment range Nm								●	

For custom features place an XX at the end of the part number and describe the special requirements (e.g. SLE / 60 / A / W / 30 / 19.05 / 80 / 40-100 / XX; XX=anodized aluminum)