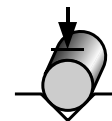
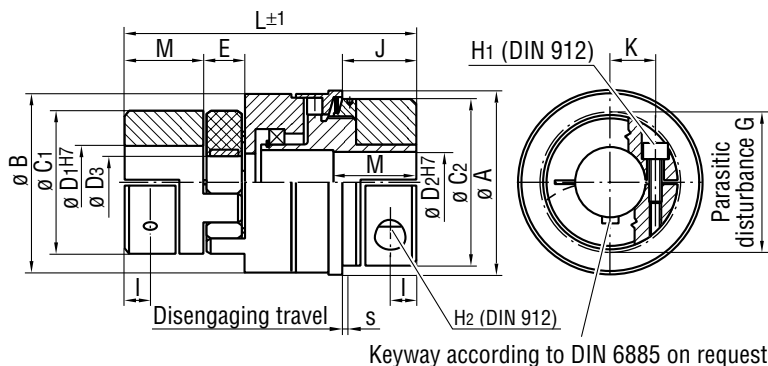


Backlash-free safety couplings



Series DMK/DS with clamping hubs

Axial elastomer servo-insert gear rim



1) Continuous engagement version is possible.
Stainless steel version is possible.

Technical data – series DMK/DS

TYPE			10	18	30	60	150	300	500
Disengaging torque (Nm) adjustable	T_{KN}	Version a	2–5	5–12	5–20	12–35	25–75	30–140	140–350
	T_{KN}	Version b	5–10	12–20	15–35	20–70	65–150	50–300	250–500
Moment of inertia (10^{-3} Kg m^2)	J	Hub side	0.05	0.1	0.17	0.32	0.8	3	5
	J	Elastomer side	0.09	0.2	0.36	0.65	1.5	5	10
Weight (appr. kg)	m		0.33	0.5	0.68	1.4	2.8	4.6	7.5
Tightening torque of retaining screws (Nm)	M_A		5	10	10	18	43	84	145
Max. permissible misalignment	- radial (mm)	ΔK_r	0.06	0.06	0.08	0.1	0.11	0.12	0.16
	- axial (mm)	ΔK_a	1.2	1.2	1.3	1.4	1.5	1.8	2.1
	- angular (degrees)	ΔK_w	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Dynamic torsional stiffness (Nm/rad)	$C_{T\ dyn}$		513	2580	4380	6189	10314	21486	55925
Radial spring stiffness (N/mm)	C_r		604	2010	2290	2560	3200	4400	5930
Max. rotational speed (rpm)	n_{max}		11450	8950	8810	7630	6030	4980	4440
Disengaging travel (mm)	s		0.7	1.2	1.2	1.2	2	2	2

Dimensions (mm) – series DMK/DS

TYPE			10	18	30	60	150	300	500
Ø A			50	65	65	75	95	115	129
Ø B			49	60	60	70	92	110	128
Ø C ₁			30	40	45	55	65	80	105
Ø C ₂			45	56	56	55	76	96	110
Ø D ₁		min.–max.	9–14	10–20	12–24	20–28	24–35	32–44	40–60
Ø D ₂		min.–max.	8–14	12–20	12–20	20–25	24–35	32–40	40–50
Ø D ₃			—	12	16	20	24	27	39
E			13	15	17	18	20	24	28
G		Disengaging travel	34	45	47	57	70	89	111
I			5	6	7.5	10	11	18	20
J			20	22	22	28	42	38	56
K			10.5	15	17	20	24	30	40
L			75	96	100	124	142	160	185
M			11	25.5	26.5	30	35	45	56
H ₁		DIN 912	M4	M5	M5	M6	M8	M10	M12
H ₂		DIN 912	M5	M6	M6	M8	M10	M12	M12

- Temperature range: -30 °C to +90 °C
- Ring gear made of polyurethane Sh 98 A.
Other shore hardnesses Sh 92 A / Sh 64 D

D₁ Elastomer side: hubs 10 to 300 made of aluminium
hub 500 made of steel

D₂ Hub side: 10 to 500 made of steel
Clamping hub: 10 to 60 made of aluminium
150 to 500 made of steel