SERVOMATE® Disc couplings

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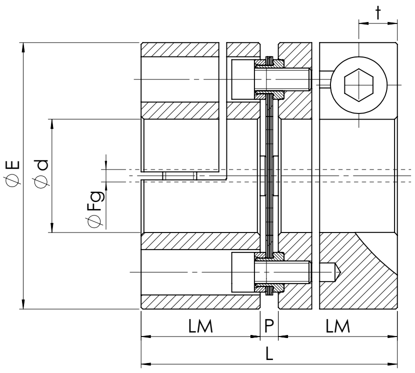
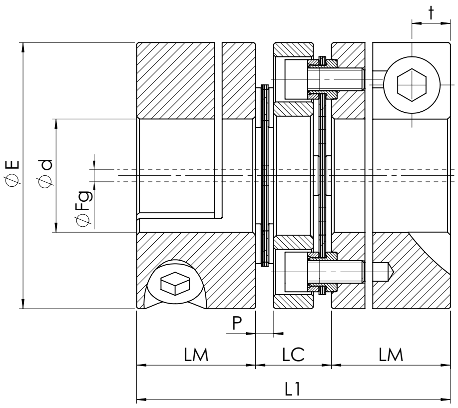
SERVOMATE® disc couplings

SERVOMATE® disc couplings have been specially designed for servomotor applications.
The aluminium hubs and the compact design provide low mass moment of inertia resulting in a reliable and maintenance free coupling for high speeds. The double disk pack execution has been designed for applications with radial misalignment.
Note: It is possible to have aligned keyways upon inquiry.



GSM



GSMC

Size	Dimensions [mm]									Screw		Weights and moments of inertia				T_{KN} [Nm]	T_{Kmax} [Nm]	Torsional ridigity CT [Nm/rad]		Max. speed [rpm]
	Prebored Fg	d_{max}	E	LC	LM	L	L1	P	t	Type	M_s [Nm]	GSM		GSMC				GSM	GSMC	
												W* [Kg]	J* [Kg · m²]	W* [Kg]	J* [Kg · m²]					
15	5,5	20	47	13	21	45	55	3	6,8	M6	10	0,16	$52 \cdot 10^{-6}$	0,20	$63 \cdot 10^{-6}$	20	40	12.000	6.000	16.000
20	7,5	25	59	19	24	52	67	4	6,5	M6	10	0,30	$149 \cdot 10^{-6}$	0,40	$194 \cdot 10^{-6}$	30	60	30.000	15.000	12.000
25	9,5	35	70	24	32	69	88	5	9,0	M8	25	0,53	$384 \cdot 10^{-6}$	0,66	$492 \cdot 10^{-6}$	60	120	60.000	30.000	10.000

*= with max bore

Size	Misalignment **GSM**			Misalignment **GSMC**		
	Radial [mm]	Axial [mm]	Angular [°]	Radial [mm]	Axial [mm]	Angular [°]
15	-	0,5	1	0,16	1,0	1
20	-	0,6	1	0,25	1,2	1
25	-	0,8	1	0,30	1,6	1

Size	Trasmissible torque [Nm] related to shaft diameter [mm]														
	Ø10	**Ø11**	**Ø12**	**Ø14**	**Ø15**	**Ø16**	**Ø19**	**Ø20**	**Ø22**	**Ø24**	**Ø25**	**Ø28**	**Ø30**	**Ø32**	**Ø35**
15	20	22	24	28	30	32	38	40	-	-	-	-	-	-	-
20	-	-	24	28	30	32	38	40	44	48	50	-	-	-	-
25	-	-	-	-	55	59	70	73	81	88	92	103	110	117	128

Order form

Coupling

GSM 020

1 disc pack execution: GSM
2 disc packs + spacer execution: GSMC

Size