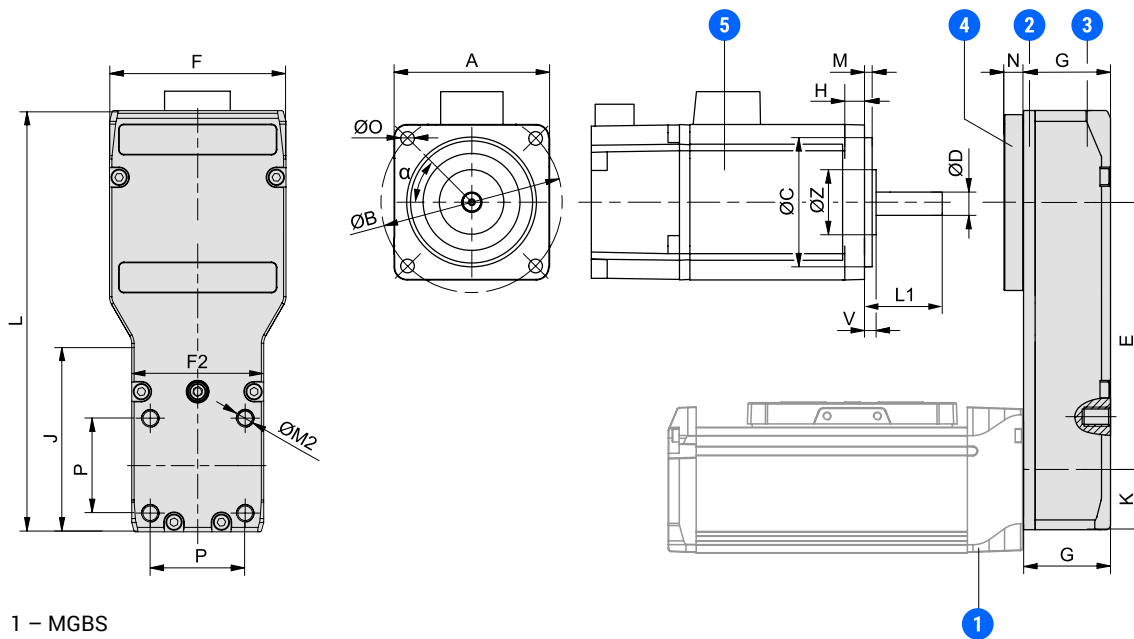


MOTOR SIDE DRIVE MSD WITH A TIMING BELT



- 1 – MGBS
2 – Motor side drive main panel
3 – Motor side drive cover
4 – Motor side drive tensioning plate
5 – Motor

Motor side drive MSD

How to order

Motor side drive – Mini series: – MG – Size: – 32 – 45 – 60 – Type

MSD - MG 32 - T2 - 42,3 - 43,8 - 22 - 2 - 24 - 5 - 4,5 - M3 - 0 - 0 - 45

A ØB ØC M L1 ØD H ØO V ØZ α

Motor dimensions [mm]

[°]

i Dimension ØO is also used for tapped holes. In case of tapped hole, prefix M must be applied.

Standard motor side drives MSD compatible with MGBS and standard motors

MGBS	Motor			Motor shaft length		Motor shaft diameter [mm]	Motor mounting holes	Motor side drive MSD	Code	Mass
Size	Type	Size □ [mm]	Standard	L1 [mm]			diameter × depth			m _{MSD} [kg]
				min	max		ØO × H [mm]			
32	Stepper	28	NEMA 11	14	20	5,0	M2,5 × 2,5 (min.)	MSD MG 32 T1	108262	0,12
45		42	NEMA 17	17,5	24	5,0	M3 × 4,5 (min.)	MSD MG 32 T2	108263	0,18
				20,5	28			MSD MG 45 T1	108264	0,28
		60	56	NEMA 23	20	28	6,35	5 × 4,5 (min.) ~ 5,5 (max.)	MSD MG 45 T2	108265
25					38	MSD MG 60 T1			112515	0,60
86			NEMA 32	28,5	38	14	7 × 8,0 (min.) ~ 9,8 (max.)	MSD MG 60 T2	112516	0,88

Technical data

MSD MG	Type	Gear ratio	Max. drive torque	Max. radial load on shaft ¹	No load torque	Mass moment of inertia	Mass ³	Motor size limits [mm]					
								A	ØB	ØC	L1		ØD
		i	M _{p, MSD} [Nm]	F _{r, MSD} [N]	M _{0, MSD} [Nm]	J _{MSD} [10 ⁻² kg cm ²]	m _{MSD} [kg]	max [mm]	max [mm]	max ⁵ [mm]	min ² [mm]	max [mm]	max [mm]
32	T1	1	0,10	15	0,015	0,39	0,12	34	35	25	15	23	5
	T2	1	0,25	15	0,015	1,04	0,18	46	50	36	14,5	25,5	6,35
45	T1	1	0,30	15	0,020	4,16	0,28	46	50	36	16,2	29	15
	T2	1	0,80	45	0,020	4,20	0,36	59,5	70	50	18	34	15
60	T1	1	0,80	35	0,025	7,52	0,60	59,5	70	50	18	35,5	9
	T2	1	1,94	90	0,035	10,30	0,88	85,5	100	75	24	37,5	19

¹ This is the load which is linearly dependent on the maximum drive torque M_{p, MSD} and is generated by the correct pretension of the belt.

This load needs to be reduced in accordance with the capabilities of the motor.

² Minimum dimension L1 depends on the belt drive pulley size.

³ This is an average value. It could differ depending to the motor dimensions.

⁴ Keyway is not valid.

⁵ Higher value is also possible but only with a thicker tensioning plate (dimension N increases, dimension L1 increases accordingly).

Dimensions

MSD MG	Type	Gear ratio	E (±0,5)	F	F2	G	N ¹	J	K	L	P	ØM2
		i	[mm]									
32	T1	1	52,5	31,5	31,5	22	4	0	15,75	85,5	22	M5 × 6
	T2	1	70,5	44,5	31,5	22	4,5	48	15,75	110	22	M5 × 6,5
45	T1	1	81	44,5	44,5	27,5	4,5	0	22,25	127	32	M6 × 8,5
	T2	1	88,5	59,5	44,5	27,5	6,5	63,5	22,25	142	32	M6 × 8,5
60	T1	1	96	59,5	59,5	33	6,5	0	29,75	157	38	M6 × 8
	T2	1	121,5	85,5	59,5	33	8,5	81,5	29,75	195,5	38	M6 × 8

¹ This is a standard value. It could differ depending to the motor dimensions M and L1.