

Motor side drive MSD with a timing belt



Minimum dimension L1 [mm] depends on the motor shafts diameter ØD

Designation	Type	Compatible with	Gear ratio	ØD [mm]					
				1	4	5	6	6,35	
MSD 25 - T1 - 1	T1	MCE/MSCE 25	1	14	14	14	14	14	
MSD 32 - T1 - 1	T1	MCE/MSCE 32	1	14	14	14	14	14	
MSD 32 - T2 - 1	T2	MCE/MSCE 32	1	-	17,5	17,5	17,5	17,5	
MSD 45 - T1 - 1	T1	MCE/MSCE 45	1	-	20,5	20,5	20,5	20,5	
MSD 45 - T2 - 1	T2	MCE/MSCE 45	1	-	20	20	20	20	

Designation	ØD [mm]							
	7	8	9	9,52	10	11	12	12,7
MSD 25 - T1 - 1	-	-	-	-	-	-	-	-
MSD 32 - T1 - 1	-	-	-	-	-	-	-	-
MSD 32 - T2 - 1	17,5	17,5	-	-	-	-	-	-
MSD 45 - T1 - 1	20,5	20,5	-	-	-	-	-	-
MSD 45 - T2 - 1	20	20	20,5	20,5	20,5	20,5	20,5	20,5

Compatibility of the standard motor side drives MSD with the MCE/MSCE and standard motors

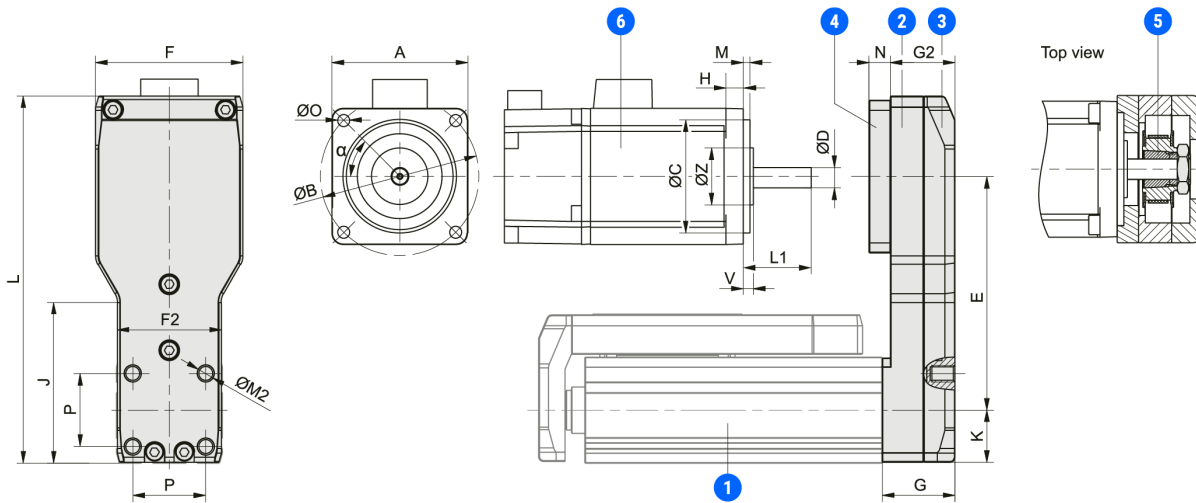
Designation	Motor			Motor shaft length		Motor shaft diameter	Motor mounting holes	Mass
	Type	Size [mm]	Standard	min	max	[mm]	ØO × H [mm]	m _{MSD} [kg]
MSD 25 - T1 - 108261	Stepper	28	NEMA 11	14	20	5,0	M2,5 × 2,5 (min.)	0,10
MSD 32 - T1 - 108262	Stepper	28	NEMA 11	14	20	5,0	M2,5 × 2,5 (min.)	0,12
MSD 32 - T2 - 108263	Stepper	42	NEMA 17	17,5	24	5,0	M3 × 4,5 (min.)	0,38
MSD 45 - T1 - 108264	Stepper	42	NEMA 17	20,5	28	5,0	M3 × 4,5 (min.)	0,28
MSD 45 - T2 - 108265	Stepper	56	NEMA 23	20	28	6,35	5 × 4,5 (min.) - 5,5 (max.)	0,36

Variant Data

Designation	Type	Compatible with	Gear ratio (I)	Max. Drive Torque (Nm)	Max. Radial Load on Shaft (N)
MSD 25 - T1 - 108261	T1	MCE/MSCE 25	1	0,10	15
MSD 32 - T1 - 108262	T1	MCE/MSCE 32	1	0,10	15
MSD 32 - T2 - 108263	T2	MCE/MSCE 32	1	0,25	15
MSD 45 - T1 - 108264	T1	MCE/MSCE 45	1	0,30	15
MSD 45 - T2 - 108265	T2	MCE/MSCE 45	1	0,80	45

Designation	No Load Torque (Nm)	Mass moment of inertia (10 ⁻⁶)	Mass (kg)
MSD 25 - T1 - 108261	0,01	0,39	0,10
MSD 32 - T1 - 108262	0,02	0,39	0,12
MSD 32 - T2 - 108263	0,02	1,04	0,18
MSD 45 - T1 - 108264	0,02	4,16	0,28
MSD 45 - T2 - 108265	0,02	4,20	0,36

Dimensions

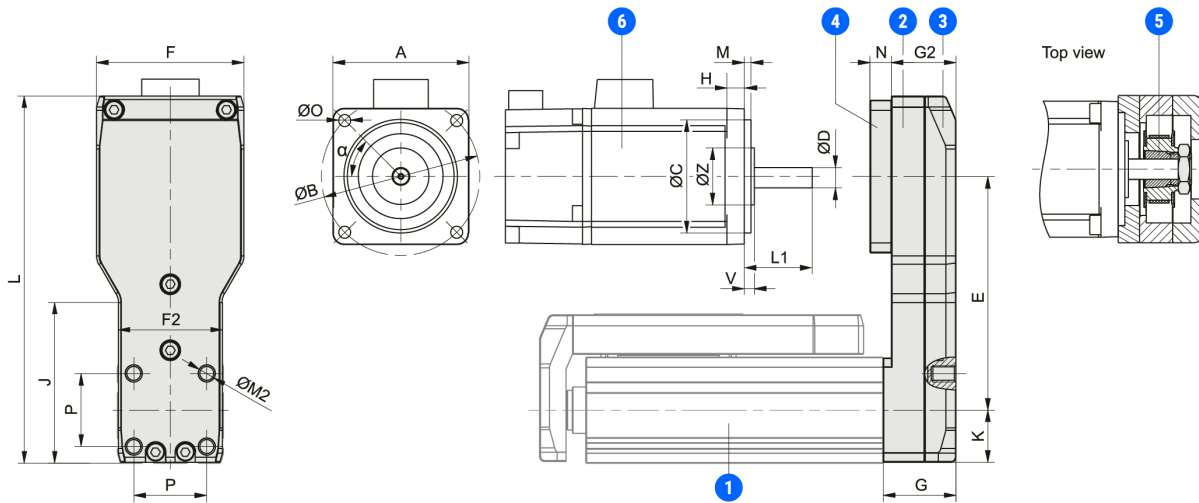


- 1 - MCE/MSCE
 - 2 - Motor side drive housing
 - 3 - Motor side drive cap
 - 4 - Motor side drive tensioning plate
 - 5 - Clamping set
 - 6 - Motor
- Motor side drive MSD

Designation	B	E	F	G	G2	N	K	L	P
MSD 25 - T1 - 108261	max 35	52.5 (±0.5)	31,50	22	19,50	5,50	12,25	83	18
MSD 32 - T1 - 108262	max 35	52.5 (±0.5)	31,50	22	19,50	5,50	15,75	86,50	22
MSD 32 - T2 - 108263	max 50	70.5 (±0.5)	44,50	22	19,50	6,50	15,75	110,50	22
MSD 45 - T1 - 108264	max 50	81 (±0.5)	44,50	27,50	24,50	6,50	22,25	128	32
MSD 45 - T2 - 108265	max 70	88.5 (±0.5)	59,50	27,50	24,50	6	22,25	144	32

Designation	M2	F2	J	C
MSD 25 - T1 - 108261	M4x6	24,50	38,50	max 25
MSD 32 - T1 - 108262	M5x7	31,50	0	max 25
MSD 32 - T2 - 108263	M5x7	31,50	48	max 36
MSD 45 - T1 - 108264	M6x7	44,50	0	max 36
MSD 45 - T2 - 108265	M6x7	44,50	64,50	max 50

Motor Size Limits



- 1 - MCE/MSCE
 - 2 - Motor side drive housing
 - 3 - Motor side drive cap
 - 4 - Motor side drive tensioning plate
 - 5 - Clamping set
 - 6 - Motor
- Motor side drive MSD

Designation	A	B	L1 Min. Clamping set	L1 max.	C
MSD 25 - T1 - 108261	max 34	max 35	**	20	max 25
MSD 32 - T1 - 108262	max 34	max 35	**	20	max 25
MSD 32 - T2 - 108263	max 46	max 50	**	24	max 36
MSD 45 - T1 - 108264	max 46	max 50	**	28	max 36
MSD 45 - T2 - 108265	max 59.5	max 70	**	28	max 50

Designation	ØD Max. Clamping set
MSD 25 - T1 - 108261	6,35
MSD 32 - T1 - 108262	6,35
MSD 32 - T2 - 108263	8
MSD 45 - T1 - 108264	8
MSD 45 - T2 - 108265	12,70