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MGBS

The MGBS is a ball screw driven mini linear unit where the rotary motion (rotation) of the drive shaft is converted to the linear motion (translation) of the carriage with high mechanical efficiency and low internal friction.

High-performance features such as high speed, good positioning accuracy, and high repeatability are ensured through a precision ball screw drive and a linear guiding system.

A preassembled standard motor (in-line with a motor adapter and a coupling or in-parallel with a motor side drive and a timing belt) together with a standard drive, makes the system plug and drive ready. Compact dimensions and optimally selected motor combinations cover a wide range of applications.

Options, such as different ball screw leads, together with a wide range of accessories and possible multi-axis system combinations make this product highly flexible.

□ = Square cross section

Dimensions in mm.

For other CAD files, please contact Rollco.

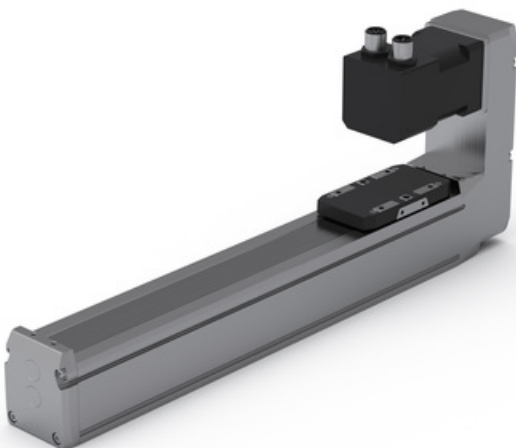
Ambient Temperature (°C): 0 °C ~ +50 °C

Ambient Temperature without a Motor (°C): 0 °C ~ +60 °C

Protection Class: IP40

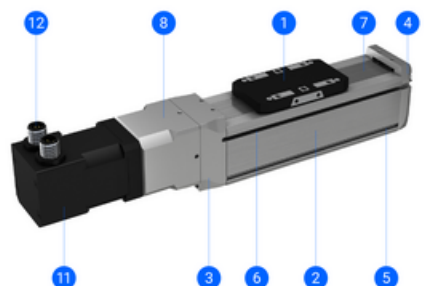
Duty Cycle: 100 %

Maintenance: Life-time pre-lubricated



MGBS

MGBS with motor and motor adapter VK



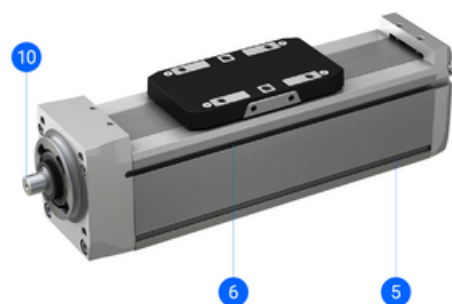
1. Carriage
2. Aluminium profile
3. Drive block
4. End block
5. Mounting slots
6. Slot for the magnetic field sensors
7. Corrosion-resistance protection strip
8. Motor adapter VK with a coupling
11. Preassembled motor (with/without a brake)
12. Standard connectors (motor, encoder and brake - optionally)

MGBS with motor and motor side drive MSD



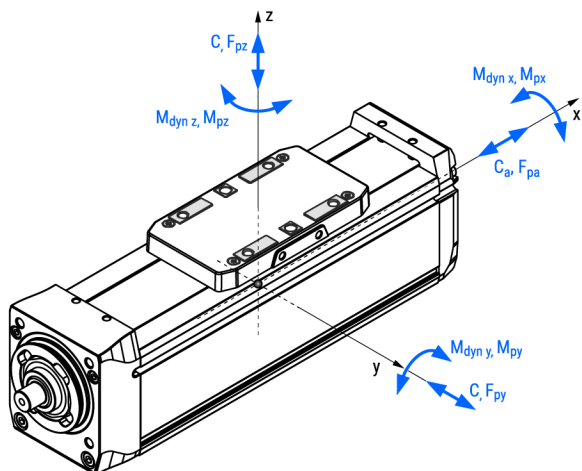
9. Motor side drive MSD with a timing belt
11. Preassembled motor (with/without a brake)
12. Standard connectors (motor, encoder and brake - optionally)

MGBS without motor



5. Mounting slots
6. Slot for the magnetic field sensors
10. Drive shaft of the precision ball screw drive

General Data



The moved mass is already considered in the equation for calculating the mass of the linear unit m_{MGBS} and the mass moment of inertia J_{MGBS} . The moved mass includes the mass of the carriage together with the ball nut.

For the combination with a standard motor and motor adapter VK or motor side drive MSD the mass m_{MGBS} should be increased by $m_{\text{VK+m}}$ or $m_{\text{MSD+m}}$ respectively.

Abs. stroke	Absolute stroke [mm]
m_{load}	Applied mass to be moved [kg]

Designation	Description	Ball Screw (d x l)	Axial Dynamic Load Capacity C_a (N)	Dynamic Load Capacity C (N)	Dynamic Moment M_x (Nm)
MGBS 32 - 8x2	Without a motor	8 x 2	2000	1310	4.8
MGBS 32 - 8x8	Without a motor	8 x 8	1500	1310	4.8
MGBS 45 - 10x3	Without a motor	10 x 3	3500	3240	20.1
MGBS 45 - 10x10	Without a motor	10 x 10	3200	3240	20.1
MGBS 60 - 12x5	Without a motor	12 x 5	5000	11190	77.4
MGBS 60 - 12x10	Without a motor	12 x 10	3800	11190	77.4

Designation	Dynamic Moment M_y (Nm)	Dynamic Moment M_z (Nm)	Max. Permissible Loads Forces F_{py} (N)	Max. Permissible Loads Forces F_{pz} (N)	Max. Permissible Loads Moments M_{px} (Nm)	Max. Permissible Loads Moments M_{py} (Nm)
MGBS 32 - 8x2	4.1	4.1	200	300	2.0	1.8
MGBS 32 - 8x8	4.1	4.1	200	300	2.0	1.8
MGBS 45 - 10x3	17.4	17.4	400	700	7.4	6.3
MGBS 45 - 10x10	17.4	17.4	400	700	7.4	6.3
MGBS 60 - 12x5	79.8	79.8	850	2000	29.2	30.8
MGBS 60 - 12x10	79.8	79.8	850	2000	29.2	30.8

Designation	Max. Permissible Loads Moments Mpz (Nm)	Axial Backlash (mm)	Max. Repeatability (mm)	Absolute Stroke	Max. Permissible Axial Load Fpa (N)	Max. Permissible Payload Horizontal mph (kg)
MGBS 32 - 8×2	1.3	≤ 0.06	± 0.015	50, 100, 150, 200, 250, 300, 400, 500, 600, 700, 800	285	31
MGBS 32 - 8×8	1.3	≤ 0.06	± 0.015	50, 100, 150, 200, 250, 300, 400, 500, 600, 700, 800	285	31
MGBS 45 - 10×3	4.7	≤ 0.06	± 0.015	50, 100, 150, 200, 250, 300, 400, 500, 600, 700, 800	695	71
MGBS 45 - 10×10	4.7	≤ 0.06	± 0.015	50, 100, 150, 200, 250, 300, 400, 500, 600, 700, 800	695	71

General Data

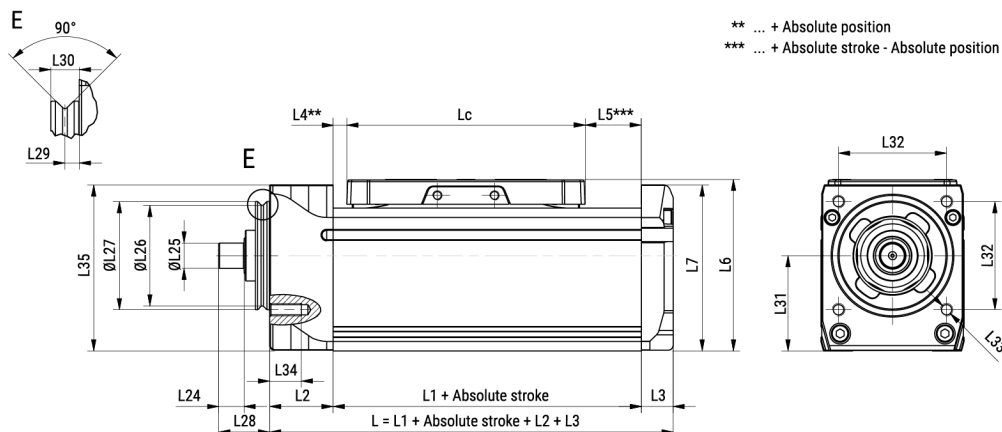
Designation	Max. Permissible Loads Moments Mpz (Nm)	Axial Backlash (mm)	Max. Repeatability (mm)	Absolute Stroke	Max. Permissible Axial Load Fpa (N)	Max. Permissible Payload Horizontal mph (kg)
MGBS 60 - 12×5	31.8	≤ 0.06	± 0.010	50, 100, 150, 200, 250, 300, 400, 500, 600, 700, 800, 900, 1000	1100	204
MGBS 60 - 12×10	31.8	≤ 0.06	± 0.010	50, 100, 150, 200, 250, 300, 400, 500, 600, 700, 800, 900, 1000	1100	204

Designation	Max. Permissible Payload Vertical mpv (kg)	Max. Drive Torque Mp (Nm)	No Load Torque Mo (Nm)	Max. Permissible Radial Load on Shaft Fpr (N)	Max. Travel Speed Vmax (m/s)	Max. Rotational Speed (rev/min)
MGBS 32 - 8×2	24	0.10	0.04	50	0.150	4500
MGBS 32 - 8×8	24	0.40	0.05	50	0.600	4500
MGBS 45 - 10×3	59	0.37	0.10	100	0.225	4500
MGBS 45 - 10×10	59	1.23	0.11	100	0.750	4500
MGBS 60 - 12×5	93	0.97	0.16	200	0.483	5800
MGBS 60 - 12×10	93	1.95	0.17	200	0.967	5800

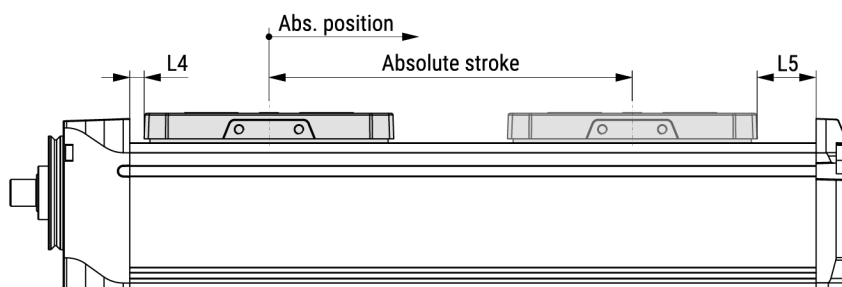
Designation	Max. Acceleration (m/s ²)	Moved Mass (kg)	Mass of Linear Unit (kg)	Mass Moment of Inertia JMGBS (10 ⁻² kg cm ²)	Planar Moment of Inertia Iy (cm ⁴)	Planar Moment of Inertia Iz (cm ⁴)
MGBS 32 - 8×2	20	0.12	0.36 + 0.0015 × Abs. Stroke	0.85 + 0.0024 × Abs. Stroke + 0.1013 × mload	4.3	4.6
MGBS 32 - 8×8	20	0.12	0.36 + 0.0015 × Abs. Stroke	1.04 + 0.0025 × Abs. Stroke + 1.6211 × mload	4.3	4.6
MGBS 45 - 10×3	20	0.23	0.80 + 0.0028 × Abs. Stroke	3.17 + 0.0055 × Abs. Stroke + 0.2280 × mload	14.3	15.9
MGBS 45 - 10×10	20	0.23	0.80 + 0.0028 × Abs. Stroke	3.72 + 0.0056 × Abs. Stroke + 2.5330 × mload	14.3	15.9
MGBS 60 - 12×5	20	0.53	1.80 + 0.0049 × Abs. Stroke	11.04 + 0.0132 × Abs. Stroke + 0.6333 × mload	43.8	50.3
MGBS 60 - 12×10	20	0.53	1.80 + 0.0049 × Abs. Stroke	11.97 + 0.0126 × Abs. Stroke + 2.5330 × mload	43.8	50.3

Dimensions

MGBS without motor



Absolute stroke of the MGBS definition



Designation	Lc	L1	L2	L3	L4	L5	L6	L7	L8
MGBS 32 - 8×2	65	81.5	16	8	2.5	14	38.5	35.75	32
MGBS 32 - 8×8	65	81.5	16	8	2.5	14	38.5	35.75	32
MGBS 45 - 10×3	75	97	20	10	4.3	17.7	54	52.25	45
MGBS 45 - 10×10	75	97	20	10	4.3	17.7	54	52.25	45
MGBS 60 - 12×5	90	133	24	12	3.2	39.8	72	68.75	60
MGBS 60 - 12×10	90	133	24	12	3.2	39.8	72	68.75	60

Designation	L9	L10	L11	L12	L13	L14	L15	L16	L17	L18
MGBS 32 - 8×2	4.4	23.7	4	5.9	18	M2	4	14.6	18.4	22.5
MGBS 32 - 8×8	4.4	23.7	4	5.9	18	M2	4	14.6	18.4	22.5
MGBS 45 - 10×3	4.4	36.5	5	7.8	18	M3	6	18.6	26.4	32
MGBS 45 - 10×10	4.4	36.5	5	7.8	18	M3	6	18.6	26.4	32
MGBS 60 - 12×5	4.4	45	6	11	30	M4	6	25.4	38.4	45
MGBS 60 - 12×10	4.4	45	6	11	30	M4	6	25.4	38.4	45

Designation	L19	L20	L21	L22	L23	L24	L25	L26	L27	L28
MGBS 32 - 8×2	30	35	M3	2 (H7)	5	7	5 (h7)	22.6	25 (h7)	14
MGBS 32 - 8×8	30	35	M3	2 (H7)	5	7	5 (h7)	22.6	25 (h7)	14

Dimensions

Designation	L19	L20	L21	L22	L23	L24	L25	L26	L27	L28
MGBS 45 - 10×3	42	42	M4	4 (H7)	6	8	8 (h7)	31.6	34	16
MGBS 45 - 10×10	42	42	M4	4 (H7)	6	8	8 (h7)	31.6	34	16
MGBS 60 - 12×5	57	55	M5	5 (H7)	8	10	10 (h7)	39.6	42	20
MGBS 60 - 12×10	57	55	M5	5 (H7)	8	10	10 (h7)	39.6	42	20

Designation	L29	L30	L31	L32	L33	L34	L35
MGBS 32 - 8×2	2.3	4.5	20	24.5	M3	6	35.75
MGBS 32 - 8×8	2.3	4.5	20	24.5	M3	6	35.75
MGBS 45 - 10×3	2.3	4.5	30	34	M4	10	52.25
MGBS 45 - 10×10	2.3	4.5	30	34	M4	10	52.25
MGBS 60 - 12×5	2.3	4.5	39	48	M5	10	68.75
MGBS 60 - 12×10	2.3	4.5	39	48	M5	10	68.75

MGTB

The MGTB is a toothed belt driven mini linear unit where the rotary motion (rotation) of the drive shaft is converted to the linear motion (translation) of the carriage with high mechanical efficiency and low internal friction.

High-performance features such as high speed, good positioning accuracy, and high repeatability are ensured through a zero-backlash toothed belt drive and a linear guiding system.

A preassembled standard motor (with a motor adapter and a coupling) together with the standard drive, makes the system plug and drive ready. Compact dimensions and optimally selected motor combinations cover a wide range of applications.

Options, such as different motor sizes, together with a wide range of accessories and possible multi-axis system combinations make this product highly flexible.

□ = Square cross section

Dimensions in mm.

For other CAD files, please contact Rollco.

Ambient Temperature (°C): 0 °C ~ +50 °C

Ambient Temperature without a Motor (°C): 0 °C ~ +60 °C

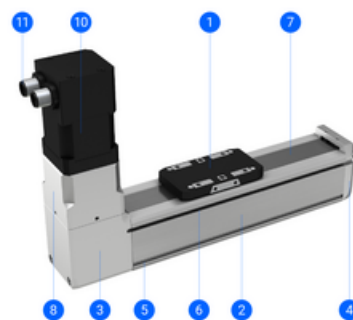
Protection Class: IP40

Duty Cycle: 100 %

Maintenance: Life-time pre-lubricated



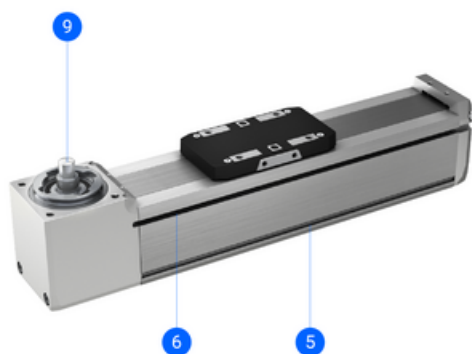
MGTB with motor and motor adapter VK



1. Carriage
2. Aluminium profile
3. Drive block with a pulley
4. End block
5. Mounting slots
6. Slot for the magnetic field sensors
7. Corrosion-resistance protection strip
8. Motor adapter VK with a coupling
10. Preassembled motor (with/without a brake)
11. Standard connectors (motor, encoder and brake - optionally)

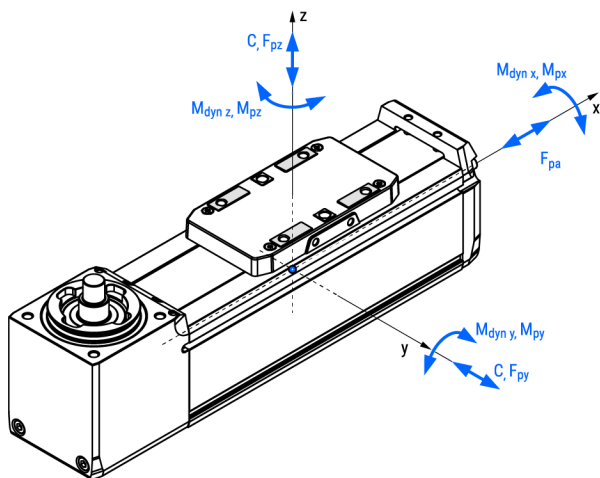
MGTB

MGTB without motor



- 5. Mounting slots
- 6. Slot for the magnetic field sensors
- 9. The drive shaft of the pulley

General Data



The moved mass is already considered in the equation for calculating the mass of the linear unit m_{MGTB} and the mass moment of inertia J_{MGTB} . The moved mass includes the mass of the carriage.

For the combination with a standard motor and motor adapter VK the mass m_{MGTB} should be increased by m_{VK+m} .

Abs. stroke	Absolute stroke [mm]
m_{load}	Applied mass to be moved [kg]

Designation	Description	Dynamic Load Capacity C (N)	Dynamic Moment Mx (Nm)	Dynamic Moment My (Nm)	Dynamic Moment Mz (Nm)
MGTB 32	Without a motor	1310	4.8	4.1	4.1
MGTB 45	Without a motor	3240	20.1	17.4	17.4
MGTB 60	Without a motor	11190	77.4	79.8	79.8

Designation	Max. Permissible Loads Forces Fpy (N)	Max. Permissible Loads Forces Fpz (N)	Max. Permissible Loads Moments Mpx (Nm)	Max. Permissible Loads Moments Mpy (Nm)	Max. Permissible Loads Moments Mpz (Nm)	Max. Repeatability (mm)
MGTB 32	200	300	2.0	1.8	1.3	± 0.08
MGTB 45	400	700	7.4	6.3	4.7	± 0.08
MGTB 60	850	2000	29.2	30.8	31.8	± 0.08

Designation	Absolute Stroke	Pulley Drive Ratio (mm/rev)	Pulley Diameter (mm)	Max. Permissible Axial Load Fpa (N)	Max. Permissible Payload Horizontal mpy (kg)	Max. Permissible Payload Vertical mpv (kg)
MGTB 32	100, 200, 300, 400, 500, 600, 700, 800, 1000, 1200, 1400, 1600	66	21.00	65	31	5.4
MGTB 45	100, 200, 300, 400, 500, 600, 700, 800, 1000, 1200, 1400, 1600	63	20.05	85	42	7.1
MGTB 60	100, 200, 300, 400, 500, 600, 700, 800, 1000, 1200, 1400, 1600, 1800, 2000	78	24.83	130	65	11

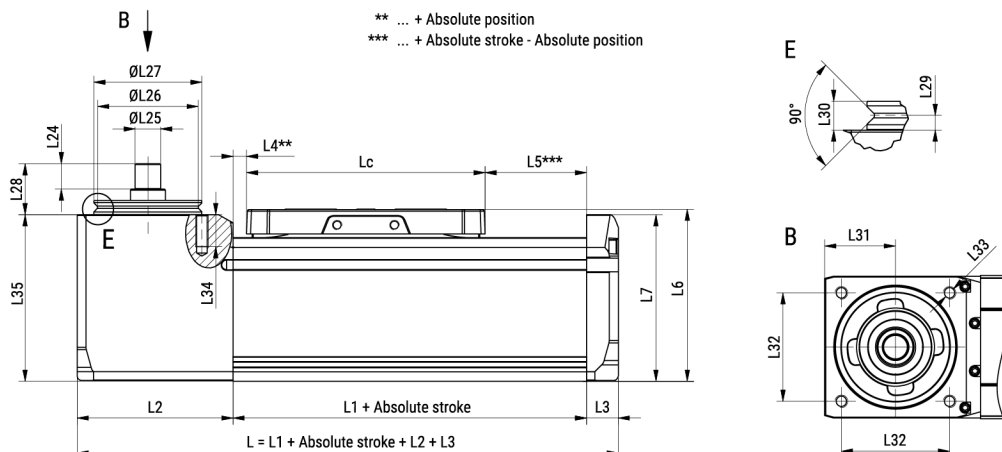
Designation	Max. Drive Torque Mp (Nm)	No Load Torque Mo (Nm)	Max. Permissible Radial Load on Shaft Fpr (N)	Max. Travel Speed Vmax (m/s)	Max. Rotational Speed (rev/min)	Max. Acceleration (m/s²)
MGTB 32	0.68	0.07	50	1500	1365	20
MGTB 45	0.85	0.20	100	1500	1430	20
MGTB 60	1.61	0.40	200	1500	1155	20

General Data

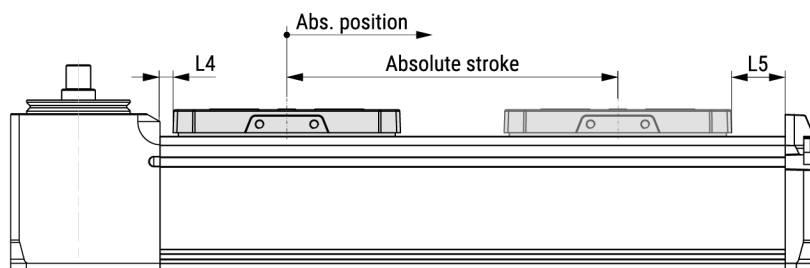
Designation	Moved Mass (kg)	Mass of Linear Unit (kg)	Mass Moment of Inertia JMGTB (10^{-2} kg cm ²)	Planar Moment of Inertia I _y (cm ⁴)	Planar Moment of Inertia I _z (cm ⁴)
MGTB 32	0.06	$0.37 + 0.0012 \times \text{Abs. Stroke}$	$9.19 + 0.0024 \times \text{Abs. Stroke} + 110.339 \times \text{mload}$	4.3	4.6
MGTB 45	0.15	$0.92 + 0.0023 \times \text{Abs. Stroke}$	$18.80 + 0.0022 \times \text{Abs. Stroke} + 100.536 \times \text{mload}$	14.3	15.9
MGTB 60	0.45	$2.12 + 0.0041 \times \text{Abs. Stroke}$	$81.72 + 0.0040 \times \text{Abs. Stroke} + 154.110 \times \text{mload}$	43.8	50.3

Dimensions

MGTB without motor



Absolute stroke of the MGTB definition



Designation	Lc	L1	L2	L3	L4	L5	L6	L7	L8
MGTB 32	65	104	32.75	8	2.5	36.5	38.5	35.75	32
MGTB 45	75	124	49	10	4.3	44.7	54	52.25	45
MGTB 60	90	139	64	12	3.2	45.8	72	68.75	60

Designation	L9	L10	L11	L12	L13	L14	L15	L16	L17	L18
MGTB 32	4.4	23.7	4	5.9	18	M2	4	14.6	18.4	22.5
MGTB 45	4.4	36.5	5	7.8	18	M3	6	18.6	16.4	32
MGTB 60	4.4	45	6	11	30	M4	6	25.4	38.4	45

Designation	L19	L20	L21	L22	L23	L24	L25	L26	L27	L28
MGTB 32	30	35	M3	2 (H7)	5	7	5 (h7)	22.6	25 (h7)	14
MGTB 45	42	42	M4	4 (H7)	6	8	8 (h7)	31.6	34 (h7)	16
MGTB 60	57	55	M5	5 (H7)	8	10	10 (h7)	39.6	42 (h7)	20

Designation	L29	L30	L31	L32	L33	L34	L35
MGTB 32	2.3	4.5	15.75	24.5	M3	3	37.75
MGTB 45	2.3	4.5	22.25	34	M4	10	54.85
MGTB 60	2.3	4.5	29.75	48	M5	10	72.50

Motor adapter VK

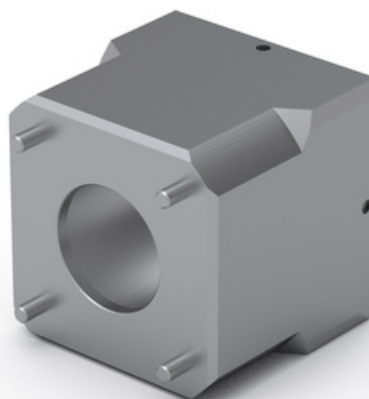
For Mini Linear Units MGBS & MGTB and MCE & MSCE
Mini Electric Cylinders & Sliders.

The standard motor adapter VK is made out of one piece.
It is important to note when ordering it, that the coupling is included.

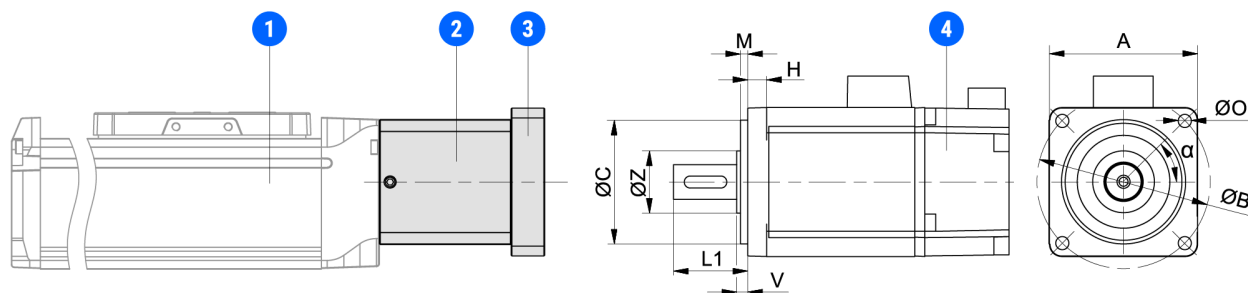
Note! If you order a custom motor adapter VK for a non-standard motor the coupling is not included.

□ = Square cross section

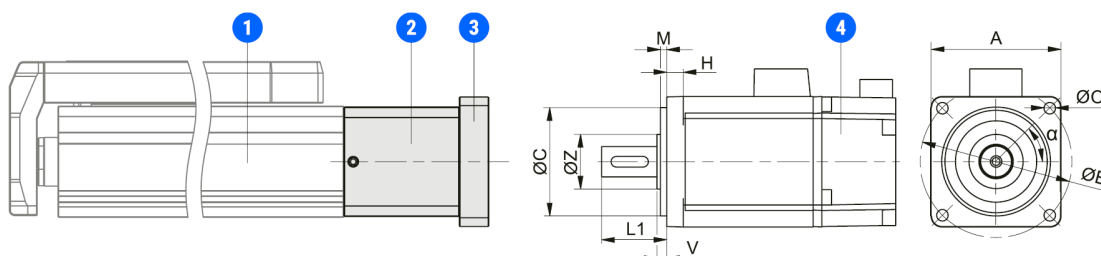
Dimensions in mm.



General Data



1. MGBS/MGTB
 2. Motor adapter housing
 3. Motor adapter flange
 4. Motor
- Motor adapter VK



Coupling is not included.

- 1 - MCE/MSCE
 - 2 - Motor adapter housing
 - 3 - Motor adapter flange
 - 4 - Motor
- Motor adapter VK

Designation	Compatible with	Motor Type	Motor Size (mm)	Motor Standard	Motor Shaft Length L1 Min. (mm)
VK - MG 25 - T1 - 108256	MCE/MSCE 25	Stepper	28	NEMA 11	15
VK - MG 32 - T1 - 108257	MGBS/MGTB 32, MCE/MSCE 32	Stepper	28	NEMA 11	15
VK - MG 32 - T2 - 108258	MGBS/MGTB 32, MCE/MSCE 32	Stepper	42	NEMA 17	20
VK - MG 45 - T1 - 108259	MGBS/MGTB 45, MCE/MSCE 45	Stepper	42	NEMA 17	20
VK - MG 45 - T2 - 108260	MGBS/MGTB 45, MCE/MSCE 45	Stepper	56	NEMA 23	20
VK - MG 60 - T1 - 112537	MGBS/MGTB 60	Stepper	56	NEMA 23	20
VK - MG 60 - T2 - 112536	MGBS/MGTB 60	Stepper	86	NEMA 34	32

Designation	Motor Shaft Length L1 Max. (mm)	Motor Shaft Diameter (mm)	Motor Mounting Holes ØO × H (mm)	Mass (kg)
VK - MG 25 - T1 - 108256	20	5.0	M2,5 × 2,5 (min.)	0.04
VK - MG 32 - T1 - 108257	20	5.0	M2.5 × 2.5 (min.)	0.06
VK - MG 32 - T2 - 108258	25	5.0	M3 × 4.5 (min.)	0.09
VK - MG 45 - T1 - 108259	25	6.35	M3 × 4.5 (min.)	0.14
VK - MG 45 - T2 - 108260	25	6.35	5 × 9.0 (max.)	0.18

General Data

Designation	Motor Shaft Length L1 Max. (mm)	Motor Shaft Diameter (mm)	Motor Mounting Holes ØO × H (mm)	Mass (kg)
VK - MG 60 - T1 - 112537	25	6.35	5 × 9.0 (max.)	0.36
VK - MG 60 - T2 - 112536	37	14	7 × 10.0 (max.)	0.58

Couplings

For Mini Linear Units MGBS & MGTB.

Dimensions in mm.

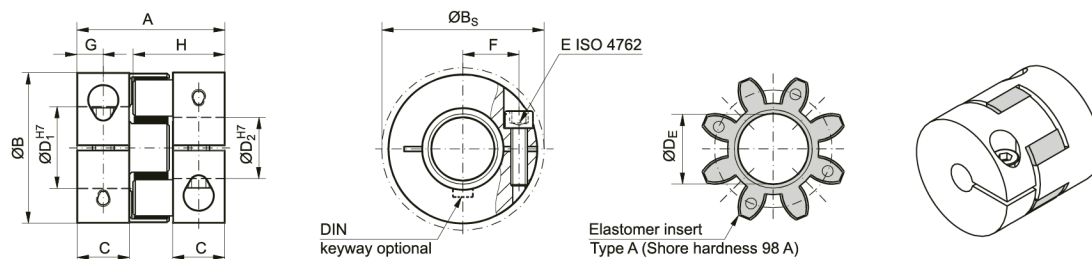


General Data

Designation	Compatible with	Rated Torque (Nm)	Max. Torque (Nm)	Tightening Torque of the Clamping Screw (Nm)	Moment of inertia per hub (10^{-3} kg m^2)
EKL 2	VK 32	2	4	0.6	0.003
EKL 5	VK 45	9	18	2	0.02
EKL 10	VK 60	12.5	25	4	0.03

Designation	Weight (kg)	Speed standard (min^{-1})
EKL 2	0.008	15000
EKL 5	0.02	15000
EKL 10	0.05	13000

Dimensions



Designation	A	B	BS	C	D1	D2	DE	E	F
EKL 2	20	16	17	6	3	8	6.2	M2	5.5
EKL 5	26	25	25	8	4	12.7	10.2	M3	8
EKL 10	32	32	32	10.3	4	16	14.2	M4	10.5

Designation	G	H
EKL 2	3	12
EKL 5	4	16.7
EKL 10	5	20.7

Motor side drive MSD

For Mini Linear Units MGBS and MCE & MSCE Mini Electric Cylinders & Sliders.

Dimensions in mm.



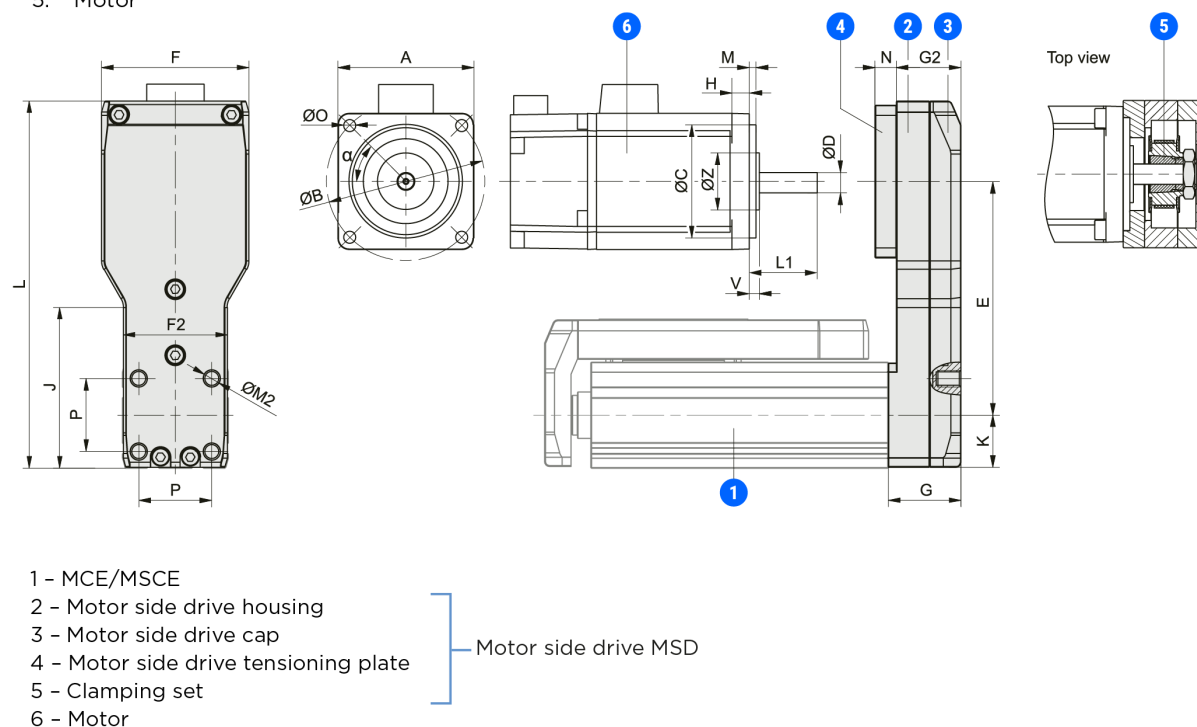
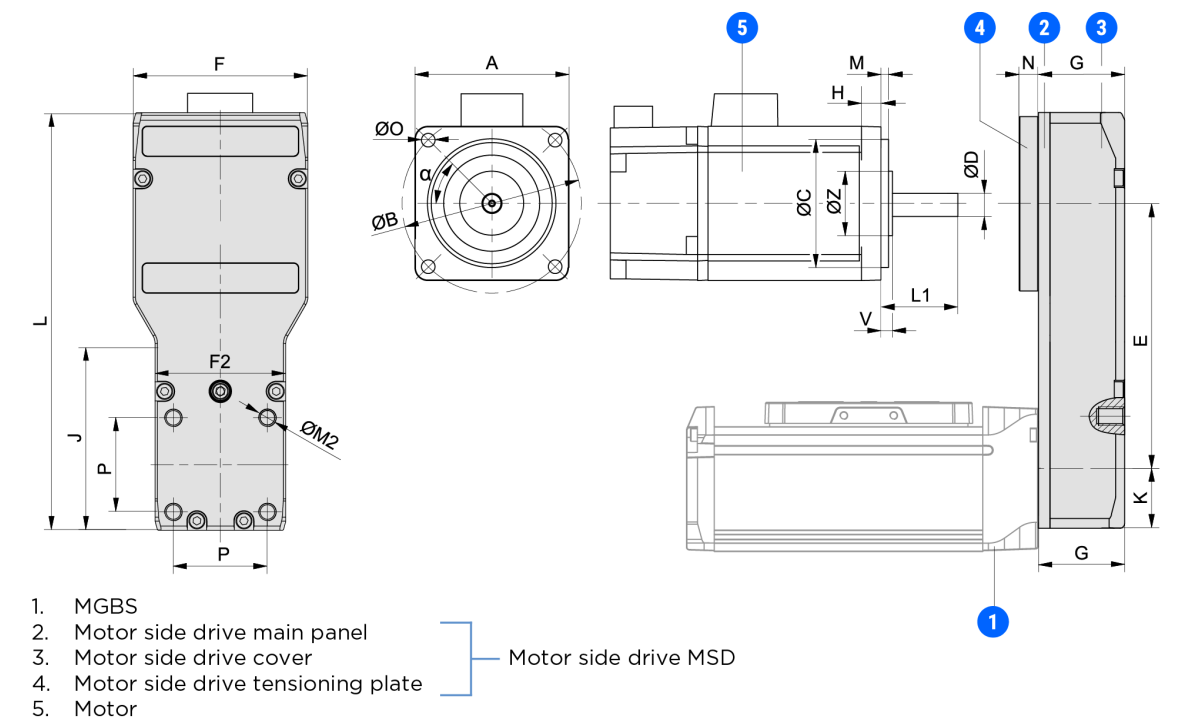
General Data

Designation	Type	Compatible with	Motor Type	Motor Size (mm)	Motor Standard
MSD - MG 25 - T1 - 108261	T1	MCE/MSCE 25	Stepper	28	NEMA 11
MSD - MG 32 - T1 - 108262	T1	MGBS 32, MCE/MSCE 32	Stepper	28	NEMA 11
MSD - MG 32 - T2 - 108263	T2	MGBS 32, MCE/MSCE 32	Stepper	42	NEMA 17
MSD - MG 45 - T1 - 108264	T1	MGBS 45, MCE/MSCE 45	Stepper	42	NEMA 17
MSD - MG 45 - T2 - 108265	T2	MGBS 45, MCE/MSCE 45	Stepper	56	NEMA 23
MSD - MG 60 - T1 - 112515	T1	MGBS 60	Stepper	56	NEMA 23
MSD - MG 60 - T2 - 112516	T2	MGBS 60	Stepper	86	NEMA 32

Designation	Motor Shaft Length L1 Min. (mm)	Motor Shaft Length L1 Max. (mm)	Motor Shaft Diameter (mm)	Motor Mounting Holes ØO × H (mm)	Mass (kg)	Gear ratio (I)
MSD - MG 25 - T1 - 108261	14	20	5.0	M2,5 × 2,5 (min.)	0.1	1
MSD - MG 32 - T1 - 108262	14	20	5.0	M2.5 × 2.5 (min.)	0.12	1
MSD - MG 32 - T2 - 108263	17.5	24	5.0	M3 × 4.5 (min.)	0.18	1
MSD - MG 45 - T1 - 108264	20.5	28	5.0	M3 × 4.5 (min.)	0.28	1
MSD - MG 45 - T2 - 108265	20	28	6.35	5 × 4.5 (min.) ~ 5.5 (max.)	0.36	1
MSD - MG 60 - T1 - 112515	25	38	6.35	5 × 4.5 (min.) ~ 5.5 (max.)	0.60	1
MSD - MG 60 - T2 - 112516	28.5	38	14	7 × 8.0 (min.) ~ 9.8 (max.)	0.88	1

Designation	Max. Drive Torque (Nm)	Max. Radial Load on Shaft (N)	No Load Torque (Nm)	Mass Moment of Inertia JMSD (10 ⁻² kg cm ²)
MSD - MG 25 - T1 - 108261	0.1	15	0.01	0.39
MSD - MG 32 - T1 - 108262	0.10	15	0.015	0.39
MSD - MG 32 - T2 - 108263	0.25	15	0.015	1.04
MSD - MG 45 - T1 - 108264	0.30	15	0.020	4.16
MSD - MG 45 - T2 - 108265	0.80	45	0.020	4.20
MSD - MG 60 - T1 - 112515	0.80	35	0.025	7.52
MSD - MG 60 - T2 - 112516	1.94	90	0.035	10.30

Dimensions



Designation	A	B	C	D	E	F	F2	G	J
MSD - MG 25 - T1 - 108261	max 34	max 35	max 25	max 5	52.5 (±0.5)	31.5	24.5	22	38.5
MSD - MG 32 - T1 - 108262	34 (max.)	35 (max.)	25 (max.)	5 (max.)	52.5 (± 0.5)	31.5	31.5	22	0
MSD - MG 32 - T2 - 108263	46 (max.)	50 (max.)	36 (max.)	6.35 (max.)	70.5 (± 0.5)	44.5	31.5	22	48
MSD - MG 45 - T1 - 108264	46 (max.)	50 (max.)	36 (max.)	15 (max.)	81 (± 0.5)	44.5	44.5	27.5	0

Dimensions

Designation	A	B	C	D	E	F	F2	G	J
MSD - MG 45 - T2 - 108265	59.5 (max.)	70 (max.)	50 (max.)	15 (max.)	88.5 (± 0.5)	59.5	44.5	27.5	63.5
MSD - MG 60 - T1 - 112515	59.5 (max.)	70 (max.)	50 (max.)	9 (max.)	96 (± 0.5)	59.5	59.5	33	0
MSD - MG 60 - T2 - 112516	85.5 (max.)	100 (max.)	75 (max.)	19 (max.)	121.5 (± 0.5)	85.5	59.5	33	81.5

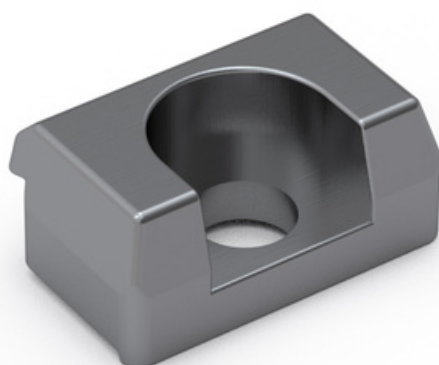
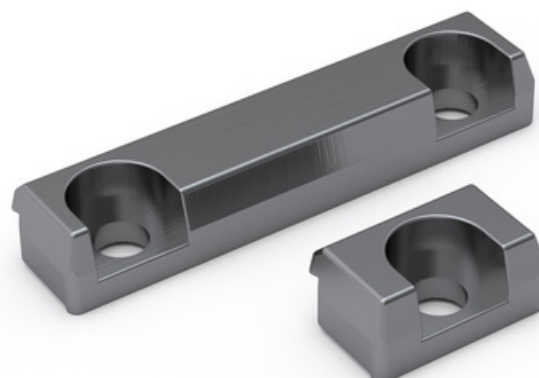
Designation	K	L	M2	N	P
MSD - MG 25 - T1 - 108261	12.25	83	M4 × 6	4	18
MSD - MG 32 - T1 - 108262	15.75	85.5	M5 × 6	4	22
MSD - MG 32 - T2 - 108263	15.75	110	M5 × 6.5	4.5	22
MSD - MG 45 - T1 - 108264	22.25	127	M6 × 8.5	4.5	32
MSD - MG 45 - T2 - 108265	22.25	142	M6 × 8.5	6.5	32
MSD - MG 60 - T1 - 112515	29.75	157	M6 × 8	6.5	38
MSD - MG 60 - T2 - 112516	29.75	195.5	M6 × 8	8.5	38

Clamping fixtures

Mini linear units MGBS & MGTB and Mini electric cylinders & sliders MCE & MSCE can be mounted by clamps, which are placed in the slot on the side of the profile. Clamps can also attach to the carriage of the mini linear unit, fixing another mini linear unit (or mini electric cylinder MCE or slider MSCE) to the carriage at an angle of 90° (i.e. for multi-axis systems).

Material: powder coated zinc alloy

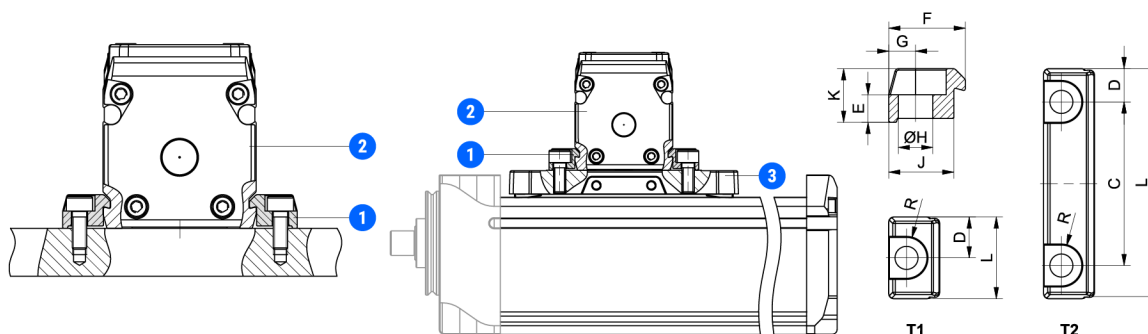
Dimensions in mm.



General Data

Designation	Screw Type	Type	Compatible with	Countersink for	Mass (g)
MG - M3 - T1 - 108216	M3	T1	MGBS, MGTB, MCE, MSCE	DIN 912	6
MG - M3 - T2 - 108218	M3	T2	MGBS, MGTB, MCE, MSCE	DIN 912	12
MG - M4 - T1 - 108217	M4	T1	MGBS, MGTB, MCE, MSCE	DIN 912	5
MG - M4 - T2 - 108219	M4	T2	MGBS, MGTB, MCE, MSCE	DIN 912	16
MG - M5 - T1 - 112526	M5	T1	MGBS, MGTB	DIN 912	6
MG - M5 - T2 - 112527	M5	T2	MGBS, MGTB	DIN 912	27

Dimensions



1. Clamping fixture
2. Profile
3. Carriage

Designation	C	D	E	F	G	H	J	K	L
MG - M3 - T1 - 108216	-	8	3.6	10	3.5	3.4	8.5	7	16
MG - M3 - T2 - 108218	22.5	4.75	3.6	10	3.5	3.4	8.5	7	32
MG - M4 - T1 - 108217	-	8	2.5	10	3.5	4.5	8.5	7	16
MG - M4 - T2 - 108219	32	6.5	2.5	10	3.5	4.5	8.5	7	45
MG - M5 - T1 - 112526	-	8	4	11	4.5	5.5	9.5	7.5	16
MG - M5 - T2 - 112527	45	7.5	4	11	4.5	5.5	9.5	7.5	60

Designation	R
MG - M3 - T1 - 108216	3.25
MG - M3 - T2 - 108218	3.25
MG - M4 - T1 - 108217	4
MG - M4 - T2 - 108219	4
MG - M5 - T1 - 112526	4.5
MG - M5 - T2 - 112527	4.5

Motor

For Mini Linear Units MGBS & MGTB and MCE & MSCE
Mini Electric Cylinders & Sliders.

See documentation below for more information.

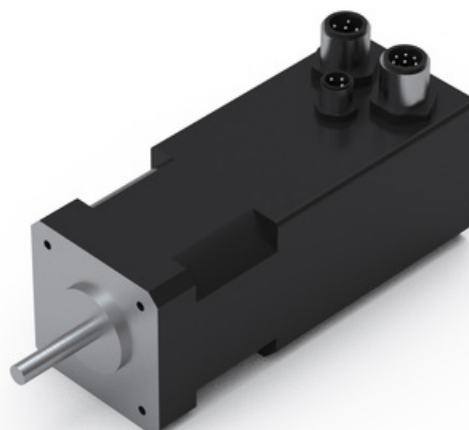
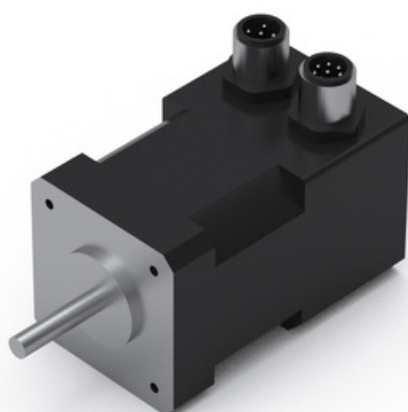
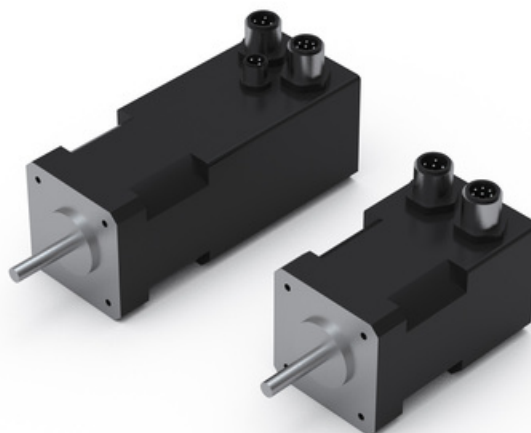
Dimensions in mm.

Ambient Temperature (°C): -10 ~ +50

Ambient Humidity: Max. 85 % (non-condensing)

Protection Class: IP65

Duty Cycle: 100 %



General Data

Designation	Compatible with	Motor Type	Motor Size (mm)	Brake	Voltage (V DC)
STMN-42-L-E	MGBS/MGTB 32 & 45, MCE/MSCE 32 & 45	Stepper	42	Without	3.15
STMN-42-L-E-B	MGBS/MGTB 32 & 45, MCE/MSCE 32 & 45	Stepper	42	With	3.15
STMN-56-L-E	MGBS/MGTB 45 & 60, MCE/MSCE 45	Stepper	56	Without	2.4
STMN-56-L-E-B	MGBS/MGTB 45 & 60, MCE/MSCE 45	Stepper	56	With	2.4

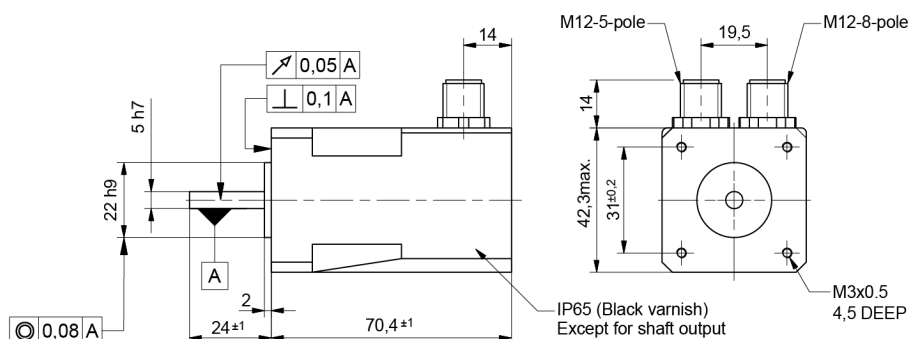
Designation	Current per Phase (A)	Mass Moment of Inertia (kg cm ²)	Holding Torque (Nm)	Step Angle (°)	Resistance per Phase (Ohm)	Inductance per Phase (mH)
STMN-42-L-E	1.8	0.082	0.5	1.8 ± 5 %	1.75 ± 15 %	3.3 ± 20 %
STMN-42-L-E-B	1.8	0.095	0.5 (motor); 0.4 (brake)	1.8 ± 5 %	1.75 ± 15 %	3.3 ± 20 %
STMN-56-L-E	4.2	0.480	1.87	1.8 ± 5 %	0.58 ± 15 %	1.9 ± 20 %
STMN-56-L-E-B	4.2	0.501	1.87 (motor) ; 1.0 (brake)	1.8 ± 5 %	0.58 ± 15 %	1.9 ± 20 %

Designation	Voltage Constant (mV/min ⁻¹)	Mass (kg)	Type	Measuring Principle	Interface	Resolution
STMN-42-L-E	23	0.44	Incremental	Opto-electrical	Line drive	500/2000 (cpr/ppr)
STMN-42-L-E-B	23	0.57	Incremental	Opto-electrical	Line drive	500/2000 (cpr/ppr)
STMN-56-L-E	32.5	1.14	Incremental	Opto-electrical	Line drive	500/2000 (cpr/ppr)
STMN-56-L-E-B	32.5	1.33	Incremental	Opto-electrical	Line drive	500/2000 (cpr/ppr)

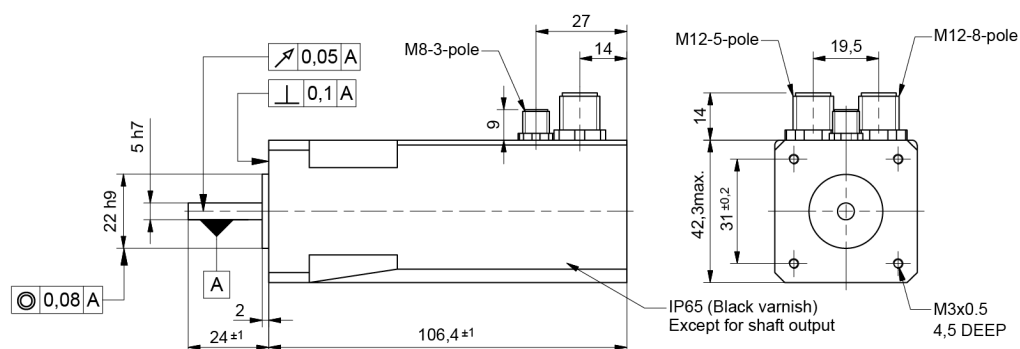
Designation	Operating Voltage (V DC)	Rated Output (W)
STMN-42-L-E	5	8
STMN-42-L-E-B	5 (encoder) ; 24 (+6/-10 %) (brake)	8
STMN-56-L-E	5	10
STMN-56-L-E-B	5 (encoder) ; 24 (+6/-10 %) (brake)	10

Dimensions

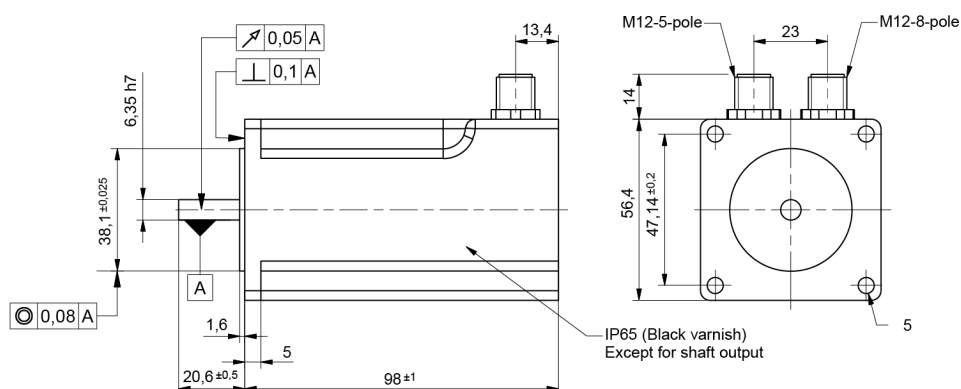
Motor without brake STMN-42-L-E



Motor with brake STMN-42-L-E-B

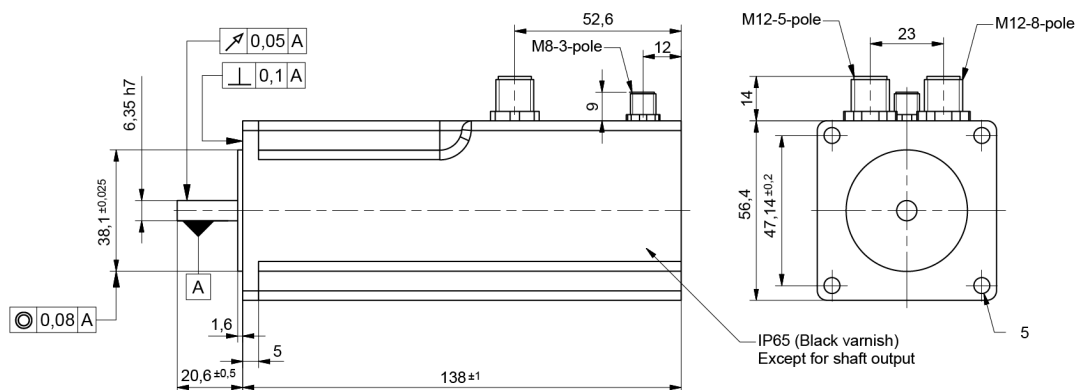


Motor without brake STMN-56-L-E



Dimensions

Motor with brake STMN-56-L-E-B



Designation	E1	E2	E3	E4	E5	E6	E7	E8	E9
STMN-42-L-E	M12 5-pole	M12 8-pole	-	14	14	19.5	-	-	70.4
STMN-42-L-E-B	M12 5-pole	M12 8-pole	M8 3-pole	14	14	19.5	9	27	106.4
STMN-56-L-E	M12 5-pole	M12 8-pole	-	14	13.4	23	-	-	98
STMN-56-L-E-B	M12 5-pole	M12 8-pole	M8 3-pole	14	52.4	23	9	12	138

Designation	E10
STMN-42-L-E	42.3
STMN-42-L-E-B	42.3
STMN-56-L-E	56.4
STMN-56-L-E-B	56.4

Drive

For Mini Linear Units MGBS & MGTB and MCE & MSCE
Mini Electric Cylinders & Sliders.

See documentation below for more information.

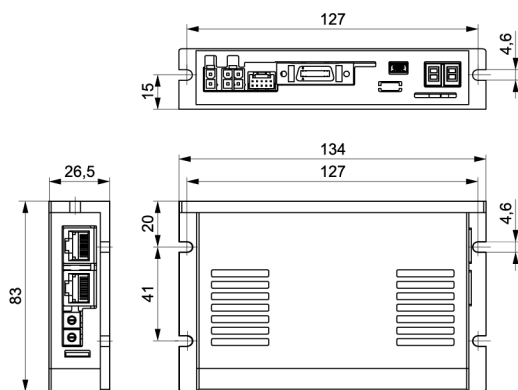
Dimensions in mm.

Duty Cycle: 100 %

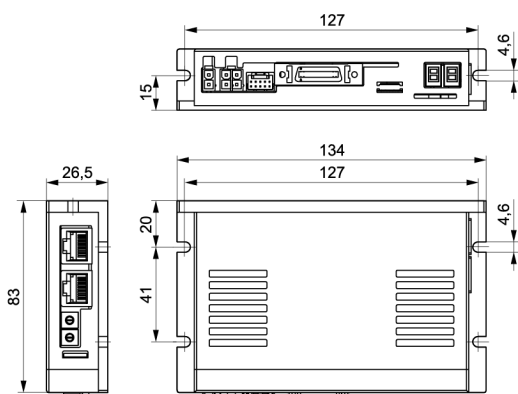


General Data

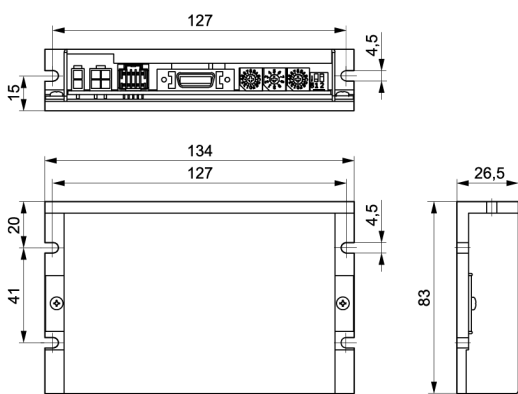
Stepper drive EtherCAT protocol



Stepper drive Ethernet based communication

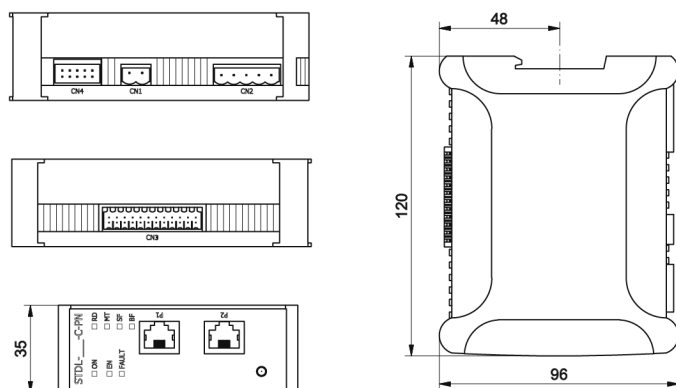


Stepper drive Pulse-direction control



General Data

Stepper drive Profinet



Designation	Compatible with	Operating Voltage (V DC)	Protocol/Control	Ambient Temperature (°C)	Ambient Humidity
STDF-28-A-EC	STMN-28-L-...	24 ± 10 %	EtherCAT	0 ~ +50	35 ~ 80 %
STDF-28-A-EN	STMN-28-L-...	24 ± 10 %	Ethernet based communication	0 ~ +50	35 ~ 80 %
STDF-28-A-PD	STMN-28-L-...	24 ± 10 %	Pulse/direction control	0 ~ +50	35 ~ 80 %
STDF-42-A-EC	STMN-42-L-...	24 ± 10 %	EtherCAT	0 ~ +50	35 ~ 80 %
STDF-42-A-EN	STMN-42-L-...	24 ± 10 %	Ethernet based communication	0 ~ +50	35 ~ 80 %
STDF-42-A-PD	STMN-42-L-...	24 ± 10 %	Pulse/direction control	0 ~ +50	35 ~ 80 %
STDF-56-A-EC	STMN-56-L-...	24 ± 10 %	EtherCAT	0 ~ +50	35 ~ 80 %
STDF-56-A-EN	STMN-56-L-...	24 ± 10 %	Ethernet based communication	0 ~ +50	35 ~ 80 %
STDF-56-A-PD	STMN-56-L-...	24 ± 10 %	Pulse/direction control	0 ~ +50	35 ~ 80 %
STDL-040-C-PN	STMN-...	20–50	Profinet	0–40	10–90 %

Designation	Current Consumption (mA)	Rotational Speed (rpm)	Supported Resolution (ppr)	Input Signals	Output Signals	Vibration Resistance (G)
STDF-28-A-EC	Max. 500	0 ~ 3000	500, 1000, 1600, 2000, 3600, 5000, 6400, 7200, 10000	3 dedicated inputs (LIMIT+, LIMIT-, ORIGIN) ; 7 user inputs (Photocoupler)	6 user outputs (Photocoupler) ; Brake	0.5
STDF-28-A-EN	Max. 500	0 ~ 3000	500, 1000, 1600, 2000, 3600, 5000, 6400, 7200, 10000	3 dedicated inputs (LIMIT+, LIMIT-, ORIGIN) ; 9 Programmable inputs (Photocoupler)	1 dedicated output (Compare out) ; 9 programmable outputs (Photocoupler) ; Brake	0.5
STDF-28-A-PD	Max. 500	0 ~ 3000	500, 1000, 1600, 2000, 3600, 5000, 6400, 7200, 10000	Position command pulse ; Servo on/off ; Alarm reset (Photocoupler input)	In-position ; Alarm (Photocoupler output) ; Encoder signal, brake	0.5
STDF-42-A-EC	Max. 500	0 ~ 3000	500, 1000, 1600, 2000, 3600, 5000, 6400, 7200, 10000	3 dedicated inputs (LIMIT+, LIMIT-, ORIGIN) ; 7 user inputs (Photocoupler)	6 user outputs (Photocoupler) ; Brake	0.5

General Data

Designation	Current Consumption (mA)	Rotational Speed (rpm)	Supported Resolution (ppr)	Input Signals	Output Signals	Vibration Resistance (G)
STDF-42-A-EN	Max. 500	0 ~ 3000	500, 1000, 1600, 2000, 3600, 5000, 6400, 7200, 10000	3 dedicated inputs (LIMIT+, LIMIT-, ORIGIN) ; 9 Programmable inputs (Photocoupler)	1 dedicated output (Compare out) ; 9 programmable outputs (Photocoupler) ; Brake	0.5
STDF-42-A-PD	Max. 500	0 ~ 3000	500, 1000, 1600, 2000, 3600, 5000, 6400, 7200, 10000	Position command pulse ; Servo on/off ; Alarm reset (Photocoupler input)	In-position ; Alarm (Photocoupler output) ; Encoder signal, brake	0.5
STDF-56-A-EC	Max. 500	0 ~ 3000	500, 1000, 1600, 2000, 3600, 5000, 6400, 7200, 10000	3 dedicated inputs (LIMIT+, LIMIT-, ORIGIN) ; 7 user inputs (Photocoupler)	6 user outputs (Photocoupler) ; Brake	0.5
STDF-56-A-EN	Max. 500	0 ~ 3000	500, 1000, 1600, 2000, 3600, 5000, 6400, 7200, 10000	3 dedicated inputs (LIMIT+, LIMIT-, ORIGIN) ; 9 Programmable inputs (Photocoupler)	1 dedicated output (Compare out) ; 9 programmable outputs (Photocoupler) ; Brake	0.5
STDF-56-A-PD	Max. 500	0 ~ 3000	500, 1000, 1600, 2000, 3600, 5000, 6400, 7200, 10000	Position command pulse ; Servo on/off ; Alarm reset (Photocoupler input)	In-position ; Alarm (Photocoupler output) ; Encoder signal, brake	0.5
STDL-040-C-PN	Max. 160	Depending on stepper motor	-	8 Digital inputs : 1 Analog input ; 1 Encoder input A, B, I	3 Digital outputs	<1

Designation	Motor Current (A)
STDF-28-A-EC	-
STDF-28-A-EN	-
STDF-28-A-PD	-
STDF-42-A-EC	-
STDF-42-A-EN	-
STDF-42-A-PD	-
STDF-56-A-EC	-
STDF-56-A-EN	-
STDF-56-A-PD	-
STDL-040-C-PN	1.0–4.5

Cables

For Mini Linear Units MGBS & MGTB and MCE & MSCE
Mini Electric Cylinders & Sliders.

See documentation below for more information.

Drive to motor cables in general consist of:

- a motor cable,
- an encoder cable,
- a brake cable (only if a motor with a brake is used).

Power cable is used for supplying the power from power supply to the drive.

Signal cable is mandatory for the following cases:

- if a motor with a brake is used,
- if a pulse/direction drive control is used,
- if the limit switches are used.

Dimensions in mm.



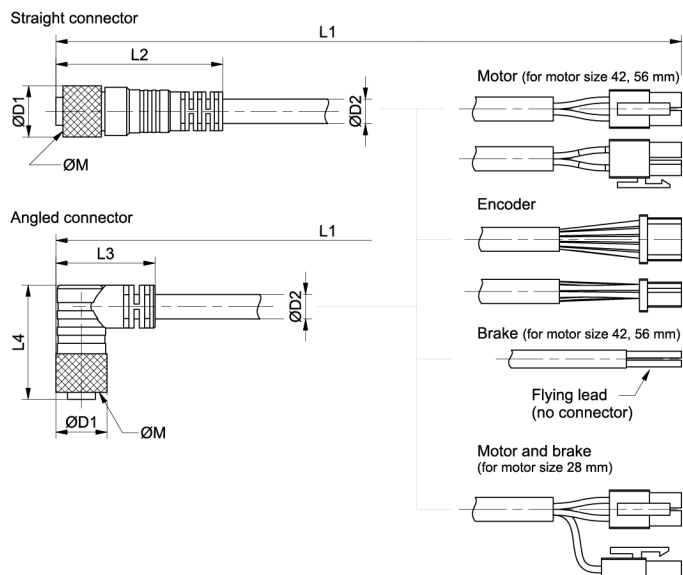
General Data

Designation	Compatible with	Type	Cable Length (m)	Cable Diameter D (mm)	Material
STCF-M-A12-...	STMN-42-... ; STMN-56-... ; STDF-...	Motor cable, angled connector	3, 5, 10	5.1	TPE, black
STCF-M-S12-...	STMN-42-... ; STMN-56-... ; STDF-...	Motor cable, straight connector	3, 5, 10	5.1	TPE, black
STCF-B-A8-...	STMN-42-...-B ; STDF-...	Brake cable, angled connector	3, 5, 10	4.5	TPE, black
STCF-B-S8-...	STMN-42-...-B ; STDF-...	Brake cable, straight connector	3, 5, 10	4.5	TPE, black
STCF-E-A12-...	STMN-42-... ; STMN-56-... ; STDF-...	Encoder cable, angled connector	3, 5, 10	6.7	TPE, black
STCF-E-S12-...	STMN-42-... ; STMN-56-... ; STDF-...	Encoder cable, straight connector	3, 5, 10	6.7	TPE, black
STCF-P-02	STDF-...	Power cable	2	4.6	PVC, black
STCF-S-EC-02	STDF-...-EC	Signal cable, EtherCAT	2	6.4	PVC, black
STCF-S-EN-02	STDF-...-EN	Signal cable, Ethernet based communication	2	6.9	PVC, black
STCF-S-PD-02	STDF-...-PD	Signal cable, Pulse-direction control	2	6.4	PVC, black
STCS-E-A12-...	STD-L-040-C-PN	Encoder cable	3, 5, 10	6.3	-
STCS-E-S12-...	STD-L-040-C-PN	Encoder cable	3, 5, 10	6.3	-
STCS-M-A12-...	STD-L-040-C-PN	Motor cable	3, 5, 10	5.7	-
STCS-M-S12-...	STD-L-040-C-PN	Motor cable	3, 5, 10	5.7	-
STCS-B-A8-...	STD-L-040-C-PN	Brake cable	3, 5, 10	4.5	-
STCS-B-S8-...	STD-L-040-C-PN	Brake cable	3, 5, 10	4.5	-

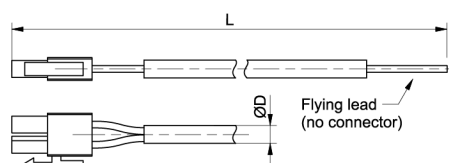
Designation	Bending Radius (mm)	Shielded	Connector Size	Temperature Range Fixed (°C)	Temperature Range Flexing (°C)
STCF-M-A12-...	min. 7,5 × D	Yes	M12	-40/+70	+5/+70
STCF-M-S12-...	min. 7,5 × D	Yes	M12	-40/+70	+5/+70
STCF-B-A8-...	min. 7,5 × D	Yes	M8	-40/+70	+5/+70
STCF-B-S8-...	min. 7,5 × D	Yes	M8	-40/+70	+5/+70
STCF-E-A12-...	min. 7,5 × D	Yes	M12	-40/+70	+5/+70
STCF-E-S12-...	min. 7,5 × D	Yes	M12	-40/+70	+5/+70
STCF-P-02	-	Yes	-	-	-
STCF-S-EC-02	-	Yes	-	-	-
STCF-S-EN-02	-	Yes	-	-	-
STCF-S-PD-02	-	Yes	-	-	-
STCS-E-A12-...	Min. 63	-	-	-20/+80	-25/+60
STCS-E-S12-...	Min. 63	-	-	-20/+80	-25/+60
STCS-M-A12-...	Min. 57	-	-	-20/+80	-25/+60
STCS-M-S12-...	Min. 57	-	-	-20/+80	-25/+60
STCS-B-A8-...	Min. 45	-	-	-20/+80	-5/+60
STCS-B-S8-...	Min. 45	-	-	-20/+80	-5/+60

Dimensions

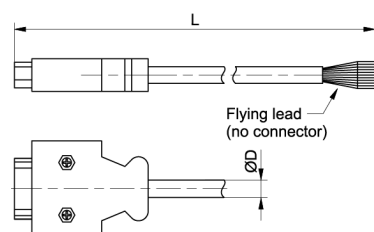
Motor, encoder and brake cables (motor and drive side)



Power cables for the stepper motors (only for the STDF drives)



Signal cables for the stepper motors (only for the STDF drives)



Designation	L1	L2	L3	L4	D1	D2	M	L	D
STCF-M-A12-...	3, 5, 10 (m)	47.7	28.4	32.6	14.6	5.1	M12	-	-
STCF-M-S12-...	3, 5, 10 (m)	47.7	28.4	32.6	14.6	5.1	M12	-	-
STCF-B-A8-...	3, 5, 10 (m)	41.7	30.9	25.2	9.9	4.5	M8	-	-
STCF-B-S8-...	3, 5, 10 (m)	41.7	30.9	25.2	9.9	4.5	M8	-	-
STCF-E-A12-...	3, 5, 10 (m)	47.7	28.4	32.6	14.6	6.7	M12	-	-
STCF-E-S12-...	3, 5, 10 (m)	47.7	28.4	32.6	14.6	6.7	M12	-	-
STCF-P-02	-	-	-	-	-	-	-	2 (m)	4.6

Dimensions

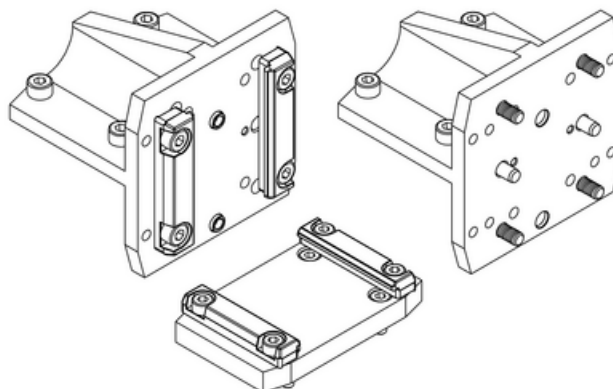
Designation	L1	L2	L3	L4	D1	D2	M	L	D
STCF-S-EC-02	-	-	-	-	-	-	-	2 (m)	6.4
STCF-S-EN-02	-	-	-	-	-	-	-	2 (m)	6.9
STCF-S-PD-02	-	-	-	-	-	-	-	2 (m)	6.4
STCS-E-A12-...	-	-	-	-	-	-	-	-	-
STCS-E-S12-...	-	-	-	-	-	-	-	-	-
STCS-M-A12-...	-	-	-	-	-	-	-	-	-
STCS-M-S12-...	-	-	-	-	-	-	-	-	-
STCS-B-A8-...	-	-	-	-	-	-	-	-	-
STCS-B-S8-...	-	-	-	-	-	-	-	-	-

Connection plates

Mini linear units MGBS and MGTB can be mounted to one another using the standard connection plates CP. The standard connection plates support mounting with clamps (profile to carriage) or with screws (carriage to carriage). Mounting of the mini electric cylinders MCE or the mini electric sliders MSCE is also possible.

Components needed for mounting (i.e.: screws, clamping fixtures, centering rings) are included.

Dimensions in mm.



General Data

Designation	Compatible with	Mass (kg)	Mounting	X-Axis	Y-Axis
CP MG32 XY MG32 KPL - 110994	MGBS/MGTB 32	0.057	Carriage-profile	MGBS/MGTB 32	MGBS/MGTB 32
CP MG45 XY MG45 KPL - 111005	MGBS/MGTB 45	0.115	Carriage-profile	MGBS/MGTB 45	MGBS/MGTB 45
CP MG60 XY MG32 KPL - 112563	MGBS/MGTB 32, 60	0.165	Carriage-profile	MGBS/MGTB 60	MGBS/MGTB 32
CP MG60 XY MG60 KPL - 112562	MGBS/MGTB 60	0.191	Carriage-profile	MGBS/MGTB 60	MGBS/MGTB 60
CP MG32 XZ MG32 KPL - 111001	MGBS/MGTB 32	0.095	Carriage-profile	MGBS/MGTB 32	-
CP MG45 XZ MG32 KPL - 111006	MGBS/MGTB 32, 45	0.161	Carriage-profile	MGBS/MGTB 45	-
CP MG45 XZ MG45 KPL - 111008	MGBS/MGTB 45	0.161	Carriage-profile	MGBS/MGTB 45	-
CP MG60 XZ MG32 KPL - 112569	MGBS/MGTB 32, 60	0.320	Carriage-profile	MGBS/MGTB 60	-
CP MG60 XZ MG45 KPL - 112568	MGBS/MGTB 45, 60	0.320	Carriage-profile	MGBS/MGTB 60	-
CP MG60 XZ MG60 KPL - 112567	MGBS/MGTB 60	0.346	Carriage-profile	MGBS/MGTB 60	-
CP MG32 XZ MSCE25 KPL - 111003	MGBS/MGTB 32, MCE/MSCE 25	0.095	Carriage-profile	MGBS/MGTB 32	-
CP MG32 XZ MSCE32 KPL - 111004	MGBS/MGTB 32, MCE/MSCE 32	0.095	Carriage-profile	MGBS/MGTB 32	-
CP MG45 XZ MSCE32 KPL - 111010	MGBS/MGTB 32, MCE/MSCE 32	0.162	Carriage-profile	MGBS/MGTB 45	-
CP MG45 XZ MSCE45 KPL - 111011	MGBS/MGTB 32, MCE/MSCE 45	0.162	Carriage-profile	MGBS/MGTB 45	-
CP MG60 XZ MSCE32 KPL - 112570	MGBS/MGTB 32, MCE/MSCE 32	0.320	Carriage-profile	MGBS/MGTB 60	-
CP MG60 XZ MSCE45 KPL - 112571	MGBS/MGTB 32, MCE/MSCE 45	0.321	Carriage-profile	MGBS/MGTB 60	-
CP MG32 XZ MG32Z KPL - 111002	MGBS/MGTB 32	0.071	Carriage-carriage	MGBS/MGTB 32	-
CP MG45 XZ MG32Z KPL - 111007	MGBS/MGTB 32, 45	0.126	Carriage-carriage	MGBS/MGTB 45	-
CP MG45 XZ MG45Z KPL - 111009	MGBS/MGTB 45	0.131	Carriage-carriage	MGBS/MGTB 45	-
CP MG60 XZ MG32Z KPL - 112566	MGBS/MGTB 32, 60	0.285	Carriage-carriage	MGBS/MGTB 60	-
CP MG60 XZ MG45Z KPL - 112565	MGBS/MGTB 45, 60	0.291	Carriage-carriage	MGBS/MGTB 60	-
CP MG60 XZ MG60Z KPL - 112564	MGBS/MGTB 60	0.297	Carriage-carriage	MGBS/MGTB 60	-

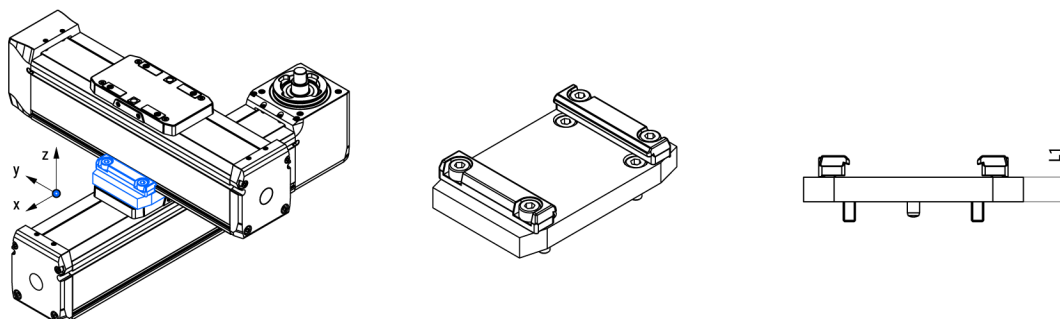
Designation	Z-Axis
CP MG32 XY MG32 KPL - 110994	-
CP MG45 XY MG45 KPL - 111005	-
CP MG60 XY MG32 KPL - 112563	-
CP MG60 XY MG60 KPL - 112562	-
CP MG32 XZ MG32 KPL - 111001	MGBS/MGTB 32
CP MG45 XZ MG32 KPL - 111006	MGBS/MGTB 32
CP MG45 XZ MG45 KPL - 111008	MGBS/MGTB 45
CP MG60 XZ MG32 KPL - 112569	MGBS/MGTB 32
CP MG60 XZ MG45 KPL - 112568	MGBS/MGTB 45
CP MG60 XZ MG60 KPL - 112567	MGBS/MGTB 60
CP MG32 XZ MSCE25 KPL - 111003	MCE/MSCE 25
CP MG32 XZ MSCE32 KPL - 111004	MCE/MSCE 32
CP MG45 XZ MSCE32 KPL - 111010	MCE/MSCE 32
CP MG45 XZ MSCE45 KPL - 111011	MCE/MSCE 45

General Data

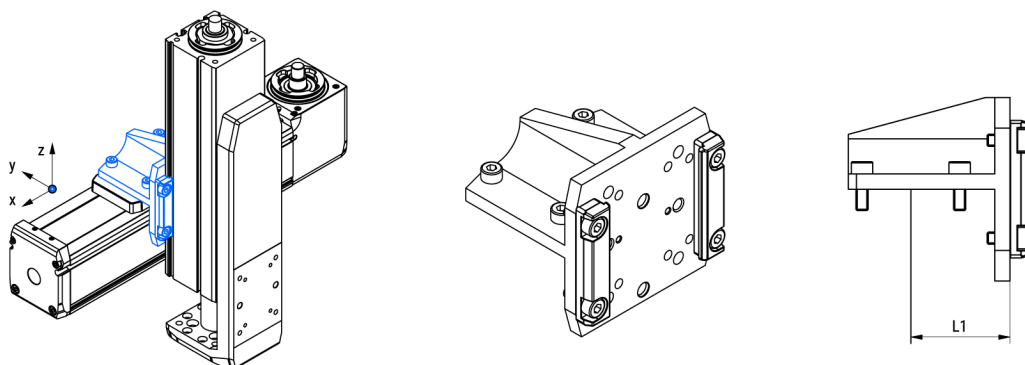
Designation	Z-Axis
CP MG60 XZ MSCE32 KPL - 112570	MCE/MSCE 32
CP MG60 XZ MSCE45 KPL - 112571	MCE/MSCE 45
CP MG32 XZ MG32Z KPL - 111002	MGBS/MGTB 32
CP MG45 XZ MG32Z KPL - 111007	MGBS/MGTB 32
CP MG45 XZ MG45Z KPL - 111009	MGBS/MGTB 45
CP MG60 XZ MG32Z KPL - 112566	MGBS/MGTB 32
CP MG60 XZ MG45Z KPL - 112565	MGBS/MGTB 45
CP MG60 XZ MG60Z KPL - 112564	MGBS/MGTB 60

Dimensions

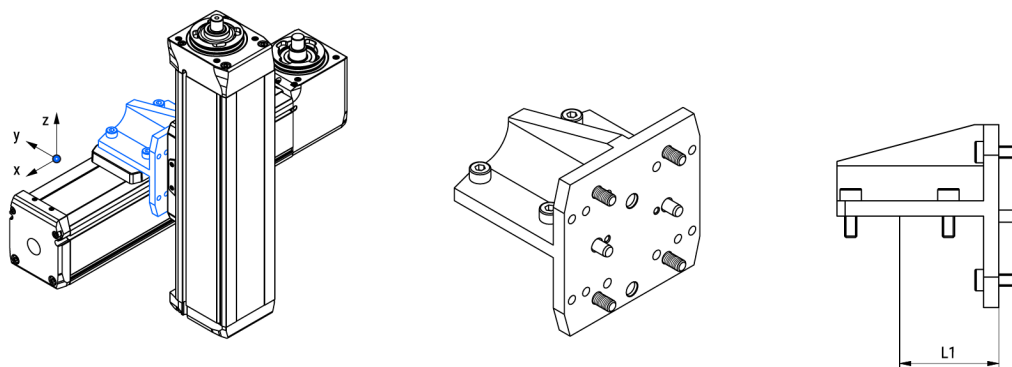
Connection plates for the XY combinations (carriage-profile mounting)



Connection plates for the XZ combinations (carriage-profile mounting)



Connection plates for the XZ combinations (carriage-carriage mounting)



Designation	L1
CP MG32 XY MG32 KPL - 110994	8.0
CP MG45 XY MG45 KPL - 111005	8.0
CP MG60 XY MG32 KPL - 112563	8.0
CP MG60 XY MG60 KPL - 112562	8.0
CP MG32 XZ MG32 KPL - 111001	26
CP MG45 XZ MG32 KPL - 111006	32
CP MG45 XZ MG45 KPL - 111008	32
CP MG60 XZ MG32 KPL - 112569	45
CP MG60 XZ MG45 KPL - 112568	45

Dimensions

Designation	L1
CP MG60 XZ MG60 KPL - 112567	45
CP MG32 XZ MSCE25 KPL - 111003	26
CP MG32 XZ MSCE32 KPL - 111004	26
CP MG45 XZ MSCE32 KPL - 111010	32
CP MG45 XZ MSCE45 KPL - 111011	32
CP MG60 XZ MSCE32 KPL - 112570	45
CP MG60 XZ MSCE45 KPL - 112571	45
CP MG32 XZ MG32Z KPL - 111002	26
CP MG45 XZ MG32Z KPL - 111007	32
CP MG45 XZ MG45Z KPL - 111009	32
CP MG60 XZ MG32Z KPL - 112566	45
CP MG60 XZ MG45Z KPL - 112565	45
CP MG60 XZ MG60Z KPL - 112564	45

Magnetic field sensors

Magnetic field sensors can be mounted using the slot for the magnetic field sensor, placed on both sides of the MGBS / MGTB profile.

Dimensions in mm.

Function principle: Magnetic

Switching function: NC normally close ; NO normally open

Wiring method: 3-wire type

Sensor Type: PNP current sourcing

Operating Voltage (V DC): 5 ~ 30

Max. Switching Current (mA): 200

Contact rating: 6 W max.

Voltage drop: 0,5 V @ 200 mA max.

Current consumption: 6 mA @ 24 V DC max.

Max. Leakage Current (mA): 0,01

Operating Frequency (Hz): 1000 max.

Ambient Temperature (°C): -10 ~ +70

Shock/vibration: 50 G / 9 G

Protection Class: IP67

LED indicator: Green

Electrical connection: M8, 3-pin

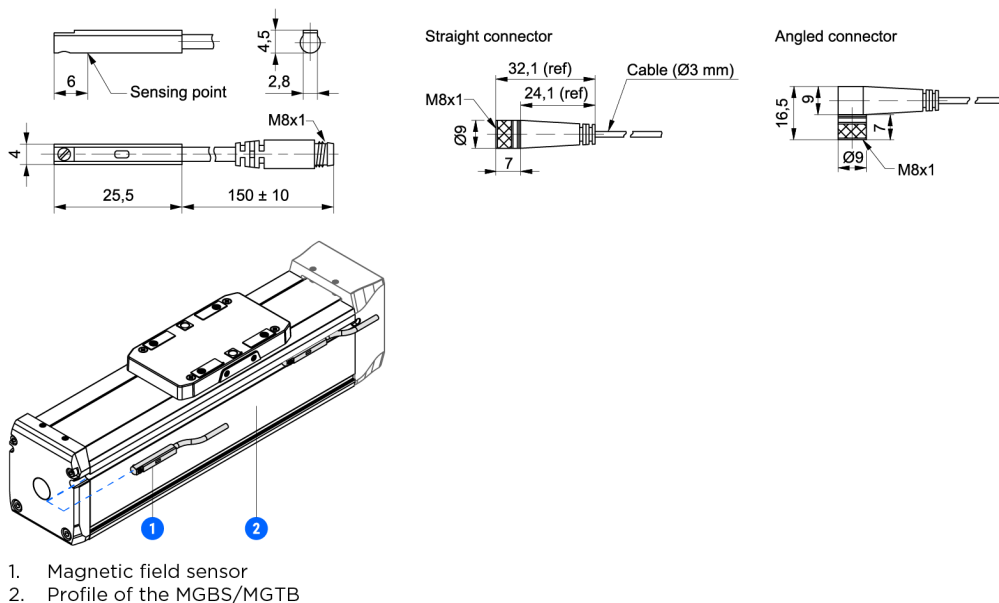
Extension cable: Energy chain compliant

Cable (Diameter, Material, Length): Ø2,8 mm, PUR, 150 mm



General Data

Magnetic field sensor and extension cable



Designation	Type	Compatible with	Length (m)
SMO 40 TP K NC - 109125	-	MGBS/MGTB	-
SMO 40 TP K NO - 12259	-	MGBS/MGTB	-
Extension cable - 8146	Straight connector extension cable	SMO 40 TP K NC/SMO 40 TP K NO	2
Extension cable - 8147	Straight connector extension cable	SMO 40 TP K NC/SMO 40 TP K NO	5
Extension cable - 9017	Angled connector extension cable	SMO 40 TP K NC/SMO 40 TP K NO	2
Extension cable - 9019	Angled connector extension cable	SMO 40 TP K NC/SMO 40 TP K NO	5