LINEAR GUIDES

LinMot linear guides are compact guide units with integrated ball bushings or bearings for the LinMot linear motors. The guides use load bearings to support external forces, torques, and bending moments. Additionally the linear guides act as an anti-twist device. These products offer high guidance accuracy and facilitate dynamic and precise positioning of the load.

The load is connected directly to the front panel of the linear guide. The mechanical dimensions and mounting options are compatible with many pneumatic guides. The modular design allows an easy mounting of accessories, such as a mechanical brake or MagSpring (magnetic spring) for load balancing in a vertical installation position.

LinMot offers two guide types, H-guides and bridge guides B, which differ in construction and in use.

LinMot Linear Guides

H01 Guide

Compact guide for linear motor series P01. Equipped with ball bushes or plain bearings.

H01 Guide Stainless Steel

Compact guide unit made of stainless steel for the use in difficult environmental conditions.

H10 Guide

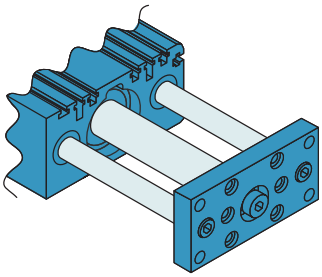
Compact guide for linear motor series P10. Equipped with integrated profile guides with 4 ball rows.

B01 Bridge Guides

Compact guide units with integrated ball bearings or plain bushings for the operation of LinMot linear motors P01 together with high clearance sliders. The rear end plate gives the bridge guide an increased mechanical stiffness.

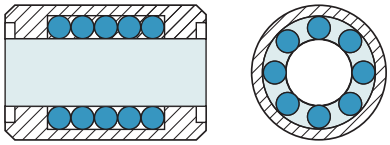
Characteristics

MECHANICAL COMPATIBILITY



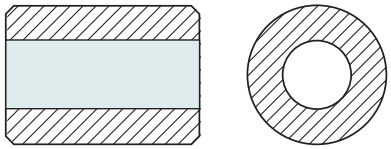
LinMot H01 guides are mechanically compatible with pneumatic H-guides. This allows simple replacement with a new drive technology, if more flexibility or higher dynamics are required.

BALL BEARINGS



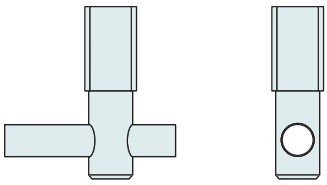
Use of linear guides with ball bearings is recommended for standard applications under normal environmental conditions. Linear guides with ball bearings have very good running characteristics, and ensure nearly frictionless operation.

SINTERED BUSHINGS



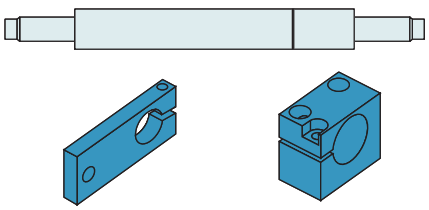
For applications in very dirty, damp, or wet environments, the use of linear guides with plain bushings and stainless steel shafts is recommended. For highly dynamic applications with accelerations over 50 m/s², the use of linear modules with plain bushings is also recommended.

BRAKE OPTION



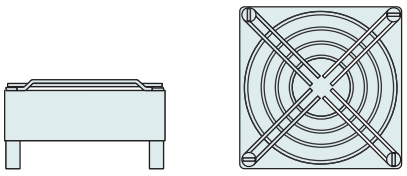
As an option, H01-37 and H01-48 guides can have a mechanical brake attached. The pneumatic brake is controlled by the Servo Drive. The brake acts on the guide shafts of the linear guide, and is released under air pressure (4-6 bar). With no air pressure, the brake is on.

MAGSPRING OPTION



In vertical applications, a MagSpring can be used as a weight balancer. The MagSpring also prevents the linear motor from falling to the lower end stop if the linear motor is turned off or the power is lost. Appropriate accessories are available for mounting the magnetic spring.

FAN OPTION



With an additional fan, the holding force of the linear motor can be nearly doubled. If needed, the optional fan can be mounted directly on the guide.

LINEAR GUIDES H01

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- Bearing external forces, torque and bending moments
- Turning resistance
- Compatible with pneumatic guides
- Integrated Linear ball bearings or sintered bearings
- The load can be connected directly to the front plate

LINEAR GUIDES H01

1. Mounting plate with counter bore for precise load mounting
2. Hardened or stainless steel shafts for precise positioning and quiet operation
3. Ball bearings or sintered bushings, for high load masses and long life
4. Guide block with counter bores for uncomplicated, precise mounting of the Linear Module
5. Mechanical end stop (rear)
6. Linear motor stator with integrated bearings, temperature and position sensors. Available with IP67 connector or cable exit.
7. Clamping cylinder to secure the stator in the guide block.
8. T-slots in the guide block allow simple mounting of accessories.
9. Linear motor slider, guarantees maximum force and precise positioning.
10. Integrated linear coupling for simple mounting of the slider.

Linear Module HM01
Complete HM01 linear modules, consisting of a H01 guide and P01 linear motor, are highly dynamic design components. Compact construction and free positioning have significant advantages, especially in textile and packaging machines, assembly and feeding technology, laboratory automation, and special machines and systems.

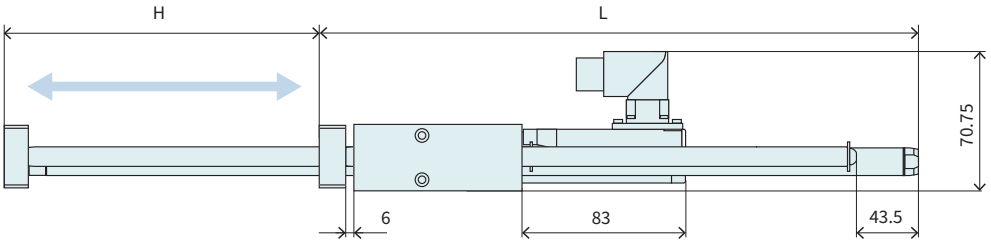
Designation Linear Guide H01

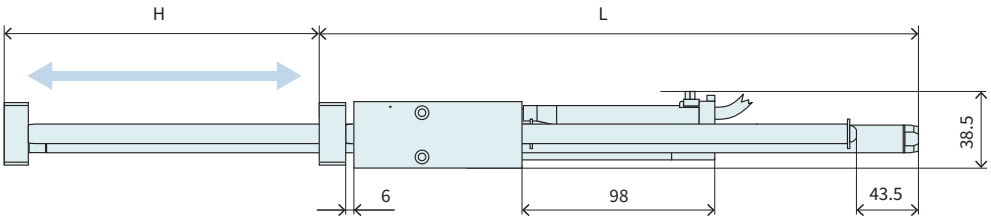
H01	-	23	x	86	/	60	-	GF	
									Bearing type
									Stroke
									Length guide block
									Stator diameter
									H-Guide

Designation Linear Module HM01

HM01	-	23	x	80	/	60	-	R	
									Connector
									Stroke
									Active stator length
									Stator diameter
									Module type

LINEAR MODULE HM01-23x80

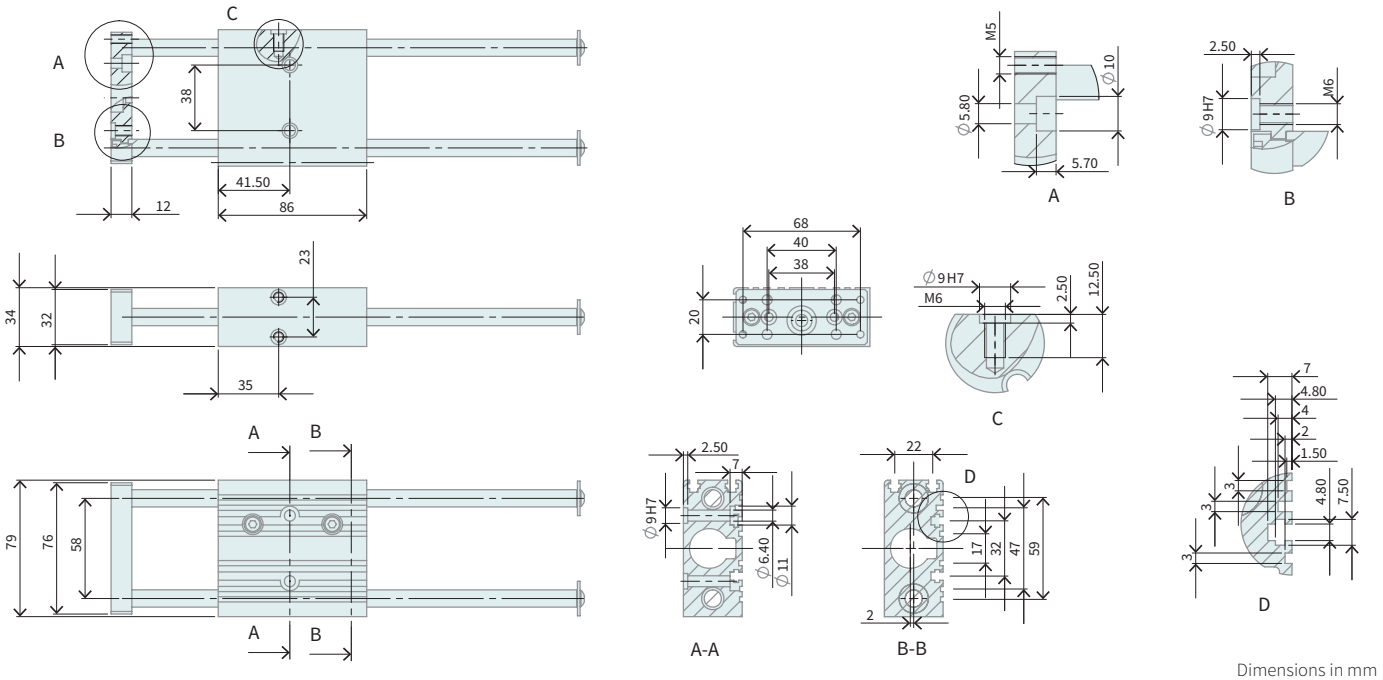




Linear Module	Bearing type	Stroke H [mm (inch)]		Moving Parts L [mm (inch)]		Moving Mass [1] [g (lb)]		Total Weight [g (lb)]	
HM01-23x80/60	Ball bearings	60	(2.36)	205.5	(8.09)	405	(0.89)	1100	(2.43)
HM01-23x80/160	Ball bearings	160	(6.30)	305.5	(12.03)	610	(1.34)	1310	(2.88)
HM01-23x80/260	Ball bearings	260	(10.24)	435.5	(17.15)	860	(1.90)	1560	(2.43)
HM01-23x80/60-GF	Plain Bushings	60	(2.36)	205.5	(8.07)	405	(0.89)	1100	(2.43)
HM01-23x80/160-GF	Plain Bushings	160	(6.30)	305.5	(12.03)	610	(1.34)	1310	(2.88)
HM01-23x80/260-GF	Plain Bushings	260	(10.24)	435.5	(17.15)	860	(1.90)	1560	(2.43)

[1] Mass with moving slider

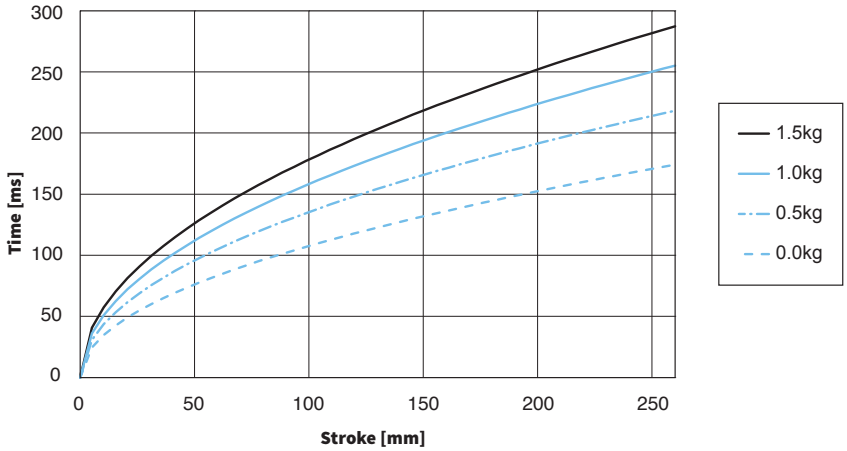
LINEAR GUIDES H01-23x86



Dimensions in mm

Materials	Guide Block & Front Plate	Guide Shaft	Bearing	Wipers
H01-23x86/… Ball Bearings	Anodized Aluminum	Hardened Steel	Steel	Nitrile Rubber
H01-23x86/…-GF Plain Bushings	Anodized Aluminum	Stainless Steel 1.4104	Sintered Bronze	Nitrile Rubber

POSITIONING TIMES WITH HM01-23x80

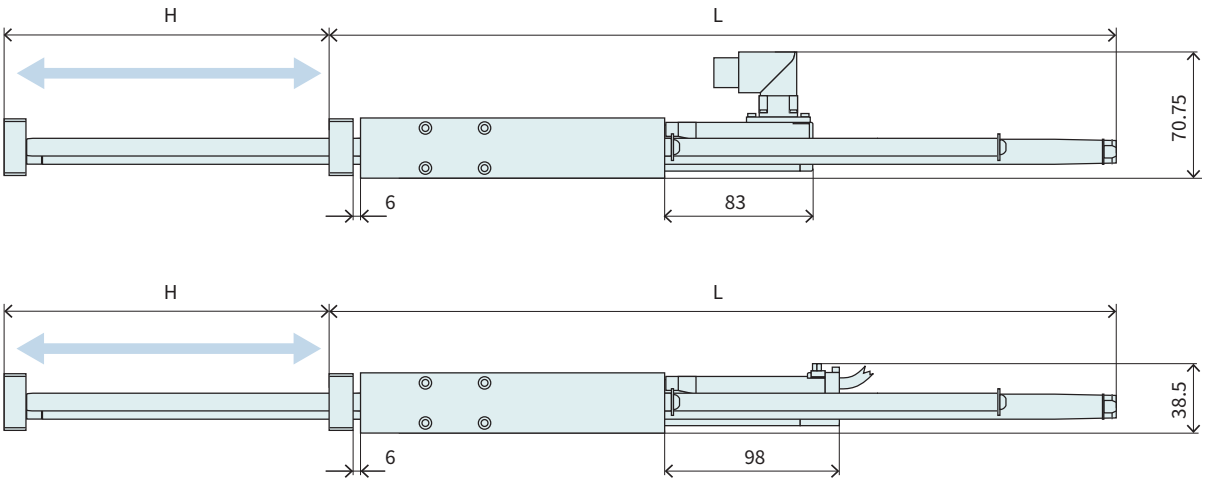


Minimum positioning times for horizontal motions with different load masses, controlled by an E1100-HC Servo Drive.

ORDERING INFORMATION

HM01-23x80/60	**Linear Module 23x80 with 60 mm Stroke**				
	Linear Guide	H01-23x86/60	H01 for P01-23x80, 60 mm Stroke, Ball Bearings		0150-5014
		H01-23x86/60-GF	H01 for P01-23x80, 60 mm Stroke, Plain Bushings		0150-5074
	Stator	PS01-23x80-R	Linear motor Stator, connector R - IP67		0150-1233
		PS01-23x80-R20	Linear motor Stator, 0.2 m Cable, connector R - IP67		0150-1241
		PS01-23x80	Linear motor Stator, 1.0 m Cable, connector D		0150-1201
		PS01-23x80F-HP-R	Stator HP with IP67 connector M17/9(m)		0150-1259
		PS01-23x80F-HP-R20	Stator HP, 0.2 m cable, IP67 con. M17/9(m)		0150-1260
	Slider	PL01-12x190/150-LC	Slider 'standard LC'		0150-2582
		PL01-12x200/160-HP	Slider 'High Performance'		0150-1518
HM01-23x80/160	**Linear Module 23x80 with 160 mm Stroke**				
	Linear Guide	H01-23x86/160	H01 for P01-23x80, 160 mm Stroke, Ball Bearings		0150-5015
		H01-23x86/160-GF	H01 for P01-23x80, 160 mm Stroke, Plain Bushings		0150-5075
	Stator	PS01-23x80-R	Linear motor Stator, connector R - IP67		0150-1233
		PS01-23x80-R20	Linear motor Stator, 0.2 m Cable, connector R - IP67		0150-1241
		PS01-23x80	Linear motor Stator, 1.0 m Cable, connector D		0150-1201
		PS01-23x80F-HP-R	Stator HP with IP67 connector M17/9(m)		0150-1259
		PS01-23x80F-HP-R20	Stator HP, 0.2 m cable, IP67 con. M17/9(m)		0150-1260
	Slider	PL01-12x290/250-LC	Slider 'standard LC'		0150-2583
		PL01-12x290/250-HP	Slider 'High Performance'		0150-1521
HM01-23x80/260	**Linear Module 23x80 with 260 mm Stroke**				
	Linear Guide	H01-23x86/260	H01 for P01-23x80, 260 mm Stroke, Ball Bearings		0150-5016
		H01-23x86/260-GF	H01 for P01-23x80, 260 mm Stroke, Plain Bushings		0150-5076
	Stator	PS01-23x80-R	Linear motor Stator, connector R - IP67		0150-1233
		PS01-23x80-R20	Linear motor Stator, 0.2 m Cable, connector R - IP67		0150-1241
		PS01-23x80	Linear motor Stator, 1.0 m Cable, connector D		0150-1201
		PS01-23x80F-HP-R	Stator HP with IP67 connector M17/9(m)		0150-1259
		PS01-23x80F-HP-R20	Stator HP, 0.2 m cable, IP67 con. M17/9(m)		0150-1260
	Slider	PL01-12x420/380-LC	Slider 'standard LC'		0150-2585
		PL01-12x420/380-HP	Slider 'High Performance'		0150-1523
ACCESSORIES					
	Fan	HV01-23	Fan for H01-23 Linear Guides		0150-5050
	MagSpring	MF01-20/H23	Mounting flange for MagSpring M01-20x…		0250-2306
		MA01-20/H23	Mounting adapter for MagSpring M01-20x…		0250-0116
	Center Sleeve	HC01-09/04	Center Sleeve D9x4 mm		0150-3251

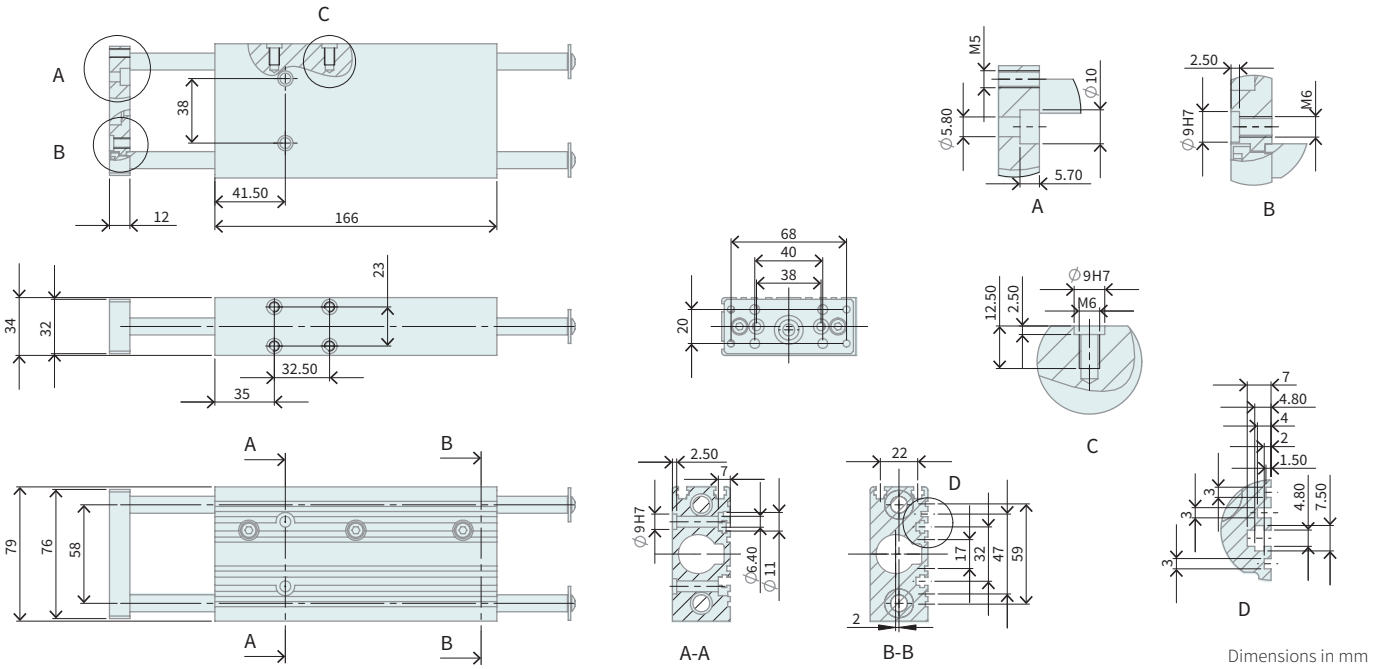
LINEAR MODULE HM01-23x160



Linear Module	Bearing type	Stroke H [mm (inch)]		Moving Parts L [mm (inch)]		Moving Mass [1] [g (lb)]		Total Weight [g (lb)]	
HM01-23x160/80	Ball bearings	80	(3.15)	305.5	(12.03)	610	(1.34)	1890	(4.17)
HM01-23x160/180	Ball bearings	180	(7.09)	435.5	(17.15)	860	(1.90)	2140	(4.72)
HM01-23x160/280	Ball bearings	280	(11.02)	495.5	(19.51)	1020	(2.25)	2300	(5.07)
HM01-23x160/80-GF	Plain Bushings	80	(3.15)	305.5	(12.03)	610	(1.34)	1890	(4.17)
HM01-23x160/180-GF	Plain Bushings	180	(7.09)	435.5	(17.15)	860	(1.90)	2140	(4.72)
HM01-23x160/280-GF	Plain Bushings	280	(11.02)	495.5	(19.51)	1020	(2.25)	2300	(5.07)

[1] Mass with moving slider

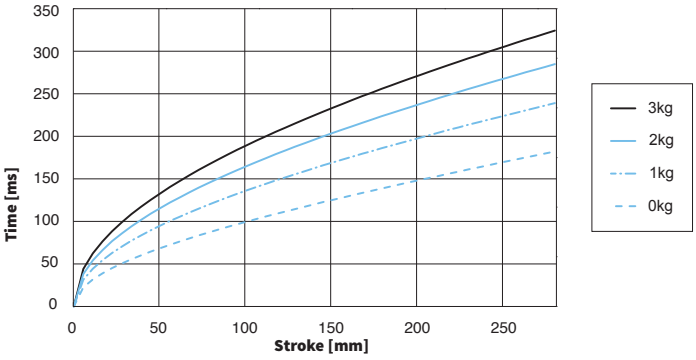
LINEAR GUIDES H01-23x166



Dimensions in mm

Materials	Guide Block & Front Plate	Guide Shaft	Bearing	Wipers
H01-23x166/… Ball Bearings	Anodized Aluminum	Hardened Steel	Steel	Nitrile Rubber
H01-23x166/…-GF Plain Bushings	Anodized Aluminum	Stainless Steel 1.4104	Sintered Bronze	Nitrile Rubber

POSITIONING TIMES WITH HM01-23x160

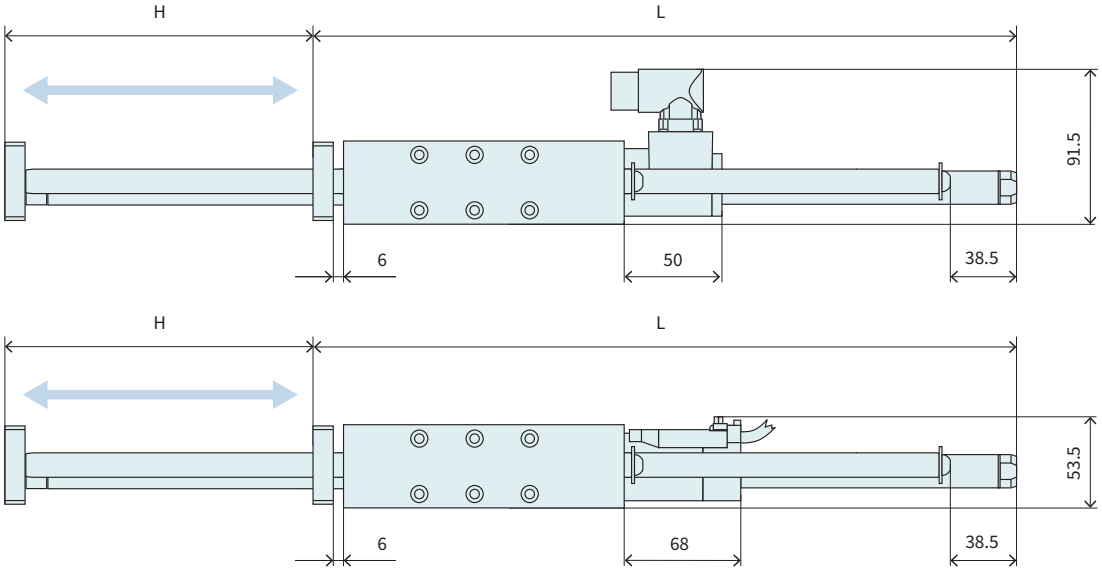


Minimum positioning times for horizontal motions with different load masses, controlled by an E1100-HC Servo Drive.

ORDERING INFORMATION

HM01-23x160/80	**Linear Module 23x160 with 80 mm Stroke**				
	Linear Guide	H01-23x166/80	H01 for P01-23x160, 80 mm Stroke, Ball Bearings		0150-5017
		H01-23x166/80-GF	H01 for P01-23x160, 80 mm Stroke, Gleitlager		0150-5077
	Stator	PS01-23x160-R	Linear motor Stator, connector R - IP67		0150-1234
		PS01-23x160F-R	Linear motor Stator, connector R - IP67	Fast Winding	0150-1235
		PS01-23x160-R20	Linear motor Stator, 0.2 m Cable, connector R - IP67		0150-1242
		PS01-23x160F-R20	Linear motor Stator, 0.2 m Cable, connector R - IP67	Fast Winding	0150-1243
		PS01-23x160	Linear motor Stator, 1.0 m Cable, connector D		0150-1202
		PS01-23x160H-HP-R	Stator HP with IP67 connector M17/9(m)		0150-1254
		PS01-23x160H-HP-R20	Stator HP, 0.2m cable, IP67 con. M17/9(m)		0150-1255
	Slider	PL01-12x290/250-LC	Slider 'standard LC'		0150-2583
		PL01-12x290/250-HP	Slider 'High Performance'		0150-1521
HM01-23x160/180	**Linear Module 23x160 with 180 mm Stroke**				
	Linear Guide	H01-23x166/180	H01 for P01-23x160, 180 mm Stroke, Ball Bearings		0150-5018
		H01-23x166/180-GF	H01 for P01-23x160, 180 mm Stroke, Gleitlager		0150-5078
	Stator	PS01-23x160-R	Linear motor Stator, connector R - IP67		0150-1234
		PS01-23x160F-R	Linear motor Stator, connector R - IP67	Fast Winding	0150-1235
		PS01-23x160-R20	Linear motor Stator, 0.2 m Cable, connector R - IP67		0150-1242
		PS01-23x160F-R20	Linear motor Stator, 0.2 m Cable, connector R - IP67	Fast Winding	0150-1243
		PS01-23x160	Linear motor Stator, 1.0 m Cable, connector D		0150-1202
		PS01-23x160H-HP-R	Stator HP with IP67 connector M17/9(m)		0150-1254
		PS01-23x160H-HP-R20	Stator HP, 0.2 m cable, IP67 con. M17/9(m)		0150-1255
	Slider	PL01-12x420/380-LC	Slider 'standard LC'		0150-2585
		PL01-12x420/380-HP	Slider 'High Performance'		0150-1523
HM01-23x160/280	**Linear Module 23x160 with 280 mm Stroke**				
	Linear Guide	H01-23x166/280	H01 for P01-23x160, 280 mm Stroke, Ball Bearings		0150-5019
		H01-23x166/280-GF	H01 for P01-23x160, 280 mm Stroke, Plain Bushings		0150-5079
	Stator	PS01-23x160-R	Linear motor Stator, connector R - IP67		0150-1234
		PS01-23x160F-R	Linear motor Stator, connector R - IP67	Fast Winding	0150-1235
		PS01-23x160-R20	Linear motor Stator, 0.2 m Cable, connector R - IP67		0150-1242
		PS01-23x160F-R20	Linear motor Stator, 0.2 m Cable, connector R - IP67	Fast Winding	0150-1243
		PS01-23x160	Linear motor Stator, 1.0 m Cable, connector D		0150-1202
		PS01-23x160H-HP-R	Stator HP with IP67 connector M17/9(m)		0150-1254
		PS01-23x160H-HP-R20	Stator HP, 0.2 m cable, IP67 con. M17/9(m)		0150-1255
	Slider	PL01-12x480/440-LC	Slider 'standard LC'		0150-2586
		PL01-12x480/440-HP	Slider 'High Performance'		0150-1524
ACCESSORIES					
	Fan	HV01-23	Fan for H01-23 Linear Guides		0150-5050
	MagSpring	MF01-20/H23	Mounting flange for MagSpring M01-20x…		0250-2306
		MA01-20/H23	Mounting adapter for MagSpring M01-20x…		0250-0116
	Center Sleeve	HC01-09/04	Center Sleeve D9x4mm		0150-3251

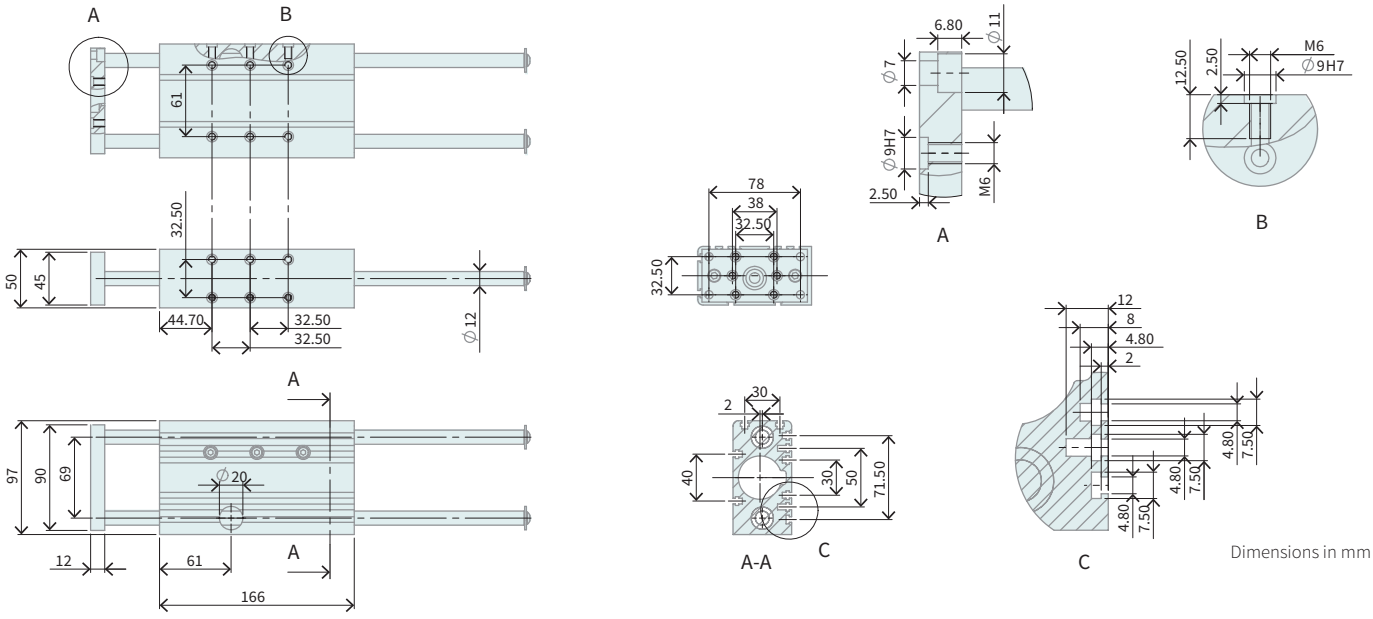
LINEAR MODULE HM01-37x120



Linear Module	Bearing type	Stroke H [mm (inch)]		Moving Parts L [mm (inch)]		Moving Mass [1] [g (lb)]		Total Weight [g (lb)]	
HM01-37x120/80	Ball bearings	80	(3.15)	318	(12.52)	1190	(2.62)	3260	(7.18)
HM01-37x120/180	Ball bearings	180	(7.09)	413	(16.26)	1600	(3.53)	3670	(8.09)
HM01-37x120/280	Ball bearings	280	(11.02)	518	(20.39)	2030	(4.46)	4100	(9.03)
HM01-37x120/80-GF	Plain Bushings	80	(3.15)	318	(12.52)	1190	(2.62)	3260	(7.18)
HM01-37x120/180-GF	Plain Bushings	180	(7.09)	413	(16.26)	1600	(3.53)	3670	(8.09)
HM01-37x120/280-GF	Plain Bushings	280	(11.02)	518	(20.39)	2030	(4.46)	4100	(9.03)

[1] Mass with moving slider

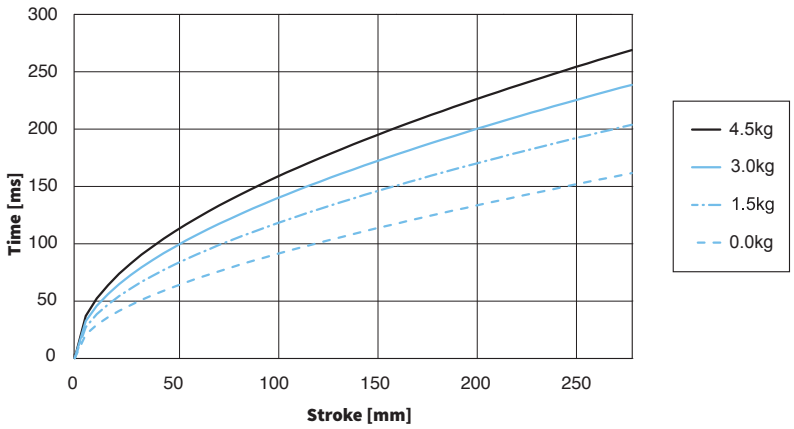
LINEAR GUIDES H01-37x166



Dimensions in mm

Materials	Guide Block & Front Plate	Guide Shaft	Bearing	Wipers
H01-37x166/… Ball Bearings	Anodized Aluminum	Hardened Steel	Steel	Nitrile Rubber
H01-37x166/…-GF Plain Bushings	Anodized Aluminum	Stainless Steel 1.4104	Sintered Bronze	Nitrile Rubber

POSITIONING TIMES WITH HM01-37x120



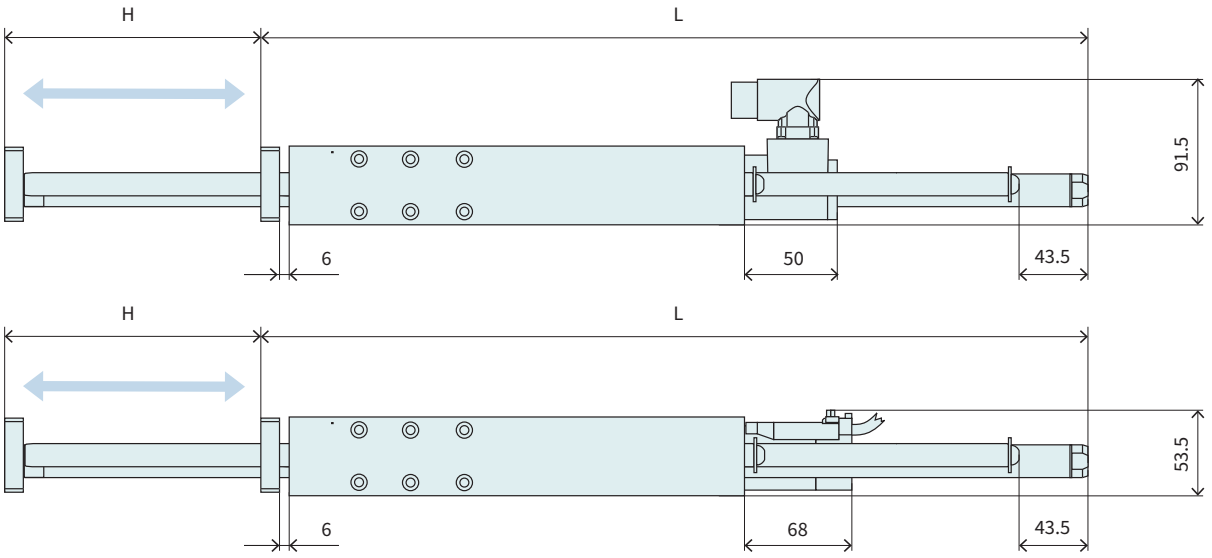
Minimum positioning times for horizontal motions with different load masses, controlled by an E1100-HC Servo Drive.

ORDERING INFORMATION

HM01-37x120/80	**Linear Module 37x120 with 80 mm Stroke**				
Linear Guide	H01-37x166/80	H01 for P01-37x120, 80mm Stroke, Ball Bearings		0150-5020
	H01-37x166/80-GF	H01 for P01-37x120, 80mm Stroke, Plain Bushings		0150-5080
Stator	PS01-37x120-C	Linear motor connector, connector C - IP67		0150-1223
	PS01-37x120-C20	Linear motor connector, 0.2m Cable, connector C - IP67		0150-1237
	PS01-37x120	Linear motor connector, 1.5m Cable, connector P		0150-1204
	PS01-37x120F-HP-C	connector HP with IP67 connector M23/9(m)		0150-1251
	PS01-37x120F-HP-C20	connector HP, 0.2 m cable, IP67 con. M23/9(m)		0150-1252
Slider	PL01-20x300/240-LC	Slider 'standard LC'		0150-2561
	PL01-20x300/240-HP	Slider 'High Performance'		0150-1506
HM01-37x120/180	**Linear Module 37x120 with 180 mm Stroke**			
Linear Guide	H01-37x166/180	H01 for P01-37x120, 180 mm Stroke, Ball Bearings		0150-5021
	H01-37x166/180-GF	H01 for P01-37x120, 180 mm Stroke, Plain Bushings		0150-5081
Stator	PS01-37x120-C	Linear motor connector, connector C - IP67		0150-1223
	PS01-37x120-C20	Linear motor connector, 0.2m Cable, connector C - IP67		0150-1237
	PS01-37x120	Linear motor connector, 1.5m Cable, connector P		0150-1204
	PS01-37x120F-HP-C	connector HP with IP67 connector M23/9(m)		0150-1251
	PS01-37x120F-HP-C20	connector HP, 0.2 m cable, IP67 con. M23/9(m)		0150-1252
Slider	PL01-20x400/340-LC	Slider 'standard LC'		0150-2562
	PL01-20x400/340-HP	Slider 'High Performance'		0150-1508
HM01-37x120/280	**Linear Module 37x120 with 280 mm Stroke**			
Linear Guide	H01-37x166/280	H01 for P01-37x120, 280 mm Stroke, Ball Bearings		0150-5022
	H01-37x166/280-GF	H01 for P01-37x120, 280mm Stroke, Plain Bushings		0150-5082
Stator	PS01-37x120-C	Linear motor connector, connector C - IP67		0150-1223
	PS01-37x120-C20	Linear motor connector, 0.2m Cable, connector C - IP67		0150-1237
	PS01-37x120	Linear motor connector, 1.5m Cable, connector P		0150-1204
	PS01-37x120F-HP-C	connector HP with IP67 connector M23/9(m)		0150-1251
	PS01-37x120F-HP-C20	connector HP, 0.2 m cable, IP67 con. M23/9(m)		0150-1252
Slider	PL01-20x500/440-LC	Slider 'standard LC'		0150-2563
	PL01-20x500/440-HP	Slider 'High Performance'		0150-1509

ACCESSORIES				
Brake	HB01-37	Pneumatic Brake for H01-37/600N (4-6Bar)		0150-5052
Fan	HV01-37/48	Fan for H01-37 und -48 Linear Guides		0150-5051
MagSpring	MF01-37/H37	Mounting flange for MagSpring M01-37x…		0250-2307
	MA01-37/H37	Mounting adapter for MagSpring M01-37x…		0250-0117
Center Sleeve	HC01-09/04	Center Sleeve D9x4mm		0150-3251

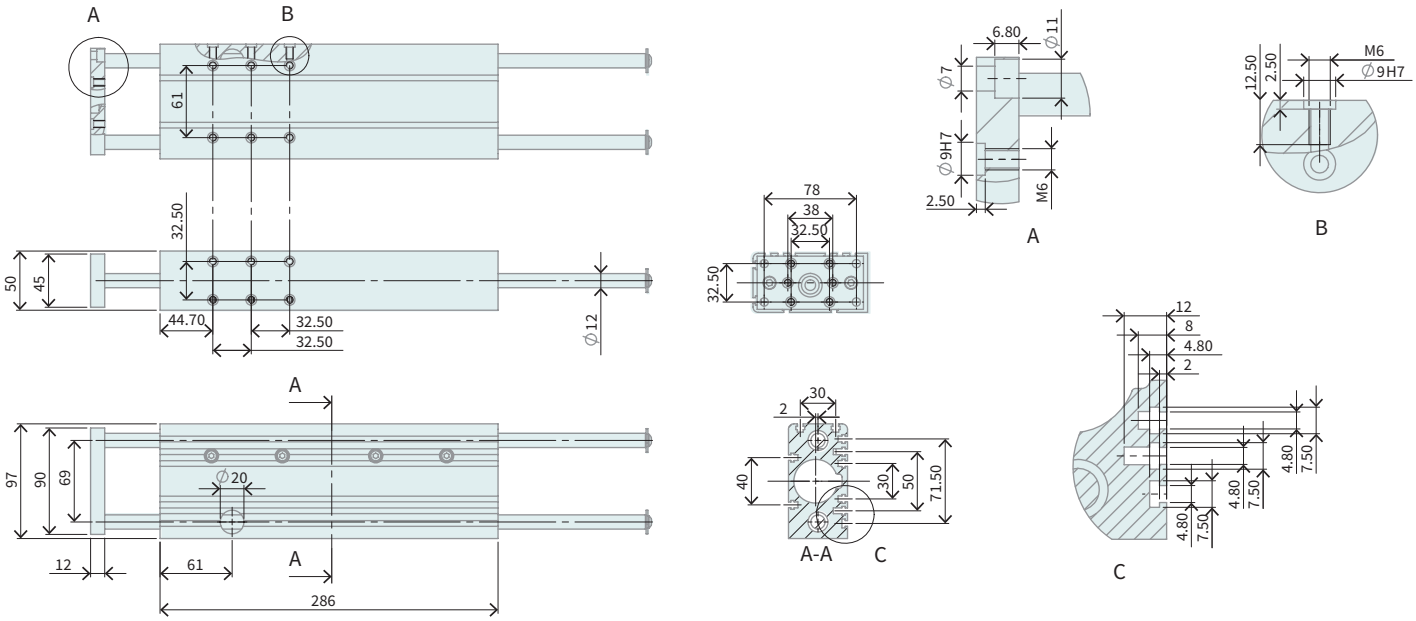
LINEAR MODULE HM01-37x240



Linear Module	Bearing type	Stroke H [mm (inch)]		Moving Parts L [mm (inch)]		Moving Mass [1] [g (lb)]		Total Weight [g (lb)]	
HM01-37x240/60	Ball bearings	60	(2.36)	413	(16.26)	1600	(3.53)	5280	(11.63)
HM01-37x240/160	Ball bearings	160	(6.30)	518	(20.39)	2020	(4.44)	5690	(12.54)
HM01-37x240/260	Ball bearings	260	(10.24)	618	(24.33)	2420	(5.33)	6100	(13.43)
HM01-37x240/60-GF	Plain Bushings	60	(2.36)	413	(16.26)	1600	(3.53)	5280	(11.63)
HM01-37x240/160-GF	Plain Bushings	160	(6.30)	518	(20.39)	2020	(4.44)	5690	(12.54)
HM01-37x240/260-GF	Plain Bushings	260	(10.24)	618	(24.33)	2420	(5.33)	6100	(13.43)

[1] Mass with moving slider

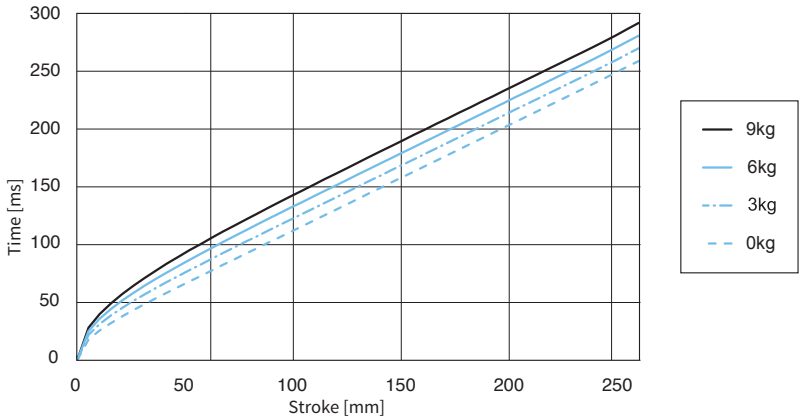
LINEAR GUIDES H01-37x286



Dimensions in mm

Materials		Guide Block & Front Plate	Guide Shaft	Bearing	Wipers
H01-37x286/…	Ball Bearings	Anodized Aluminum	Hardened Steel	Steel	Nitrile Rubber
H01-37x286/…-GF	Plain Bushings	Anodized Aluminum	Stainless Steel 1.4104	Sintered Bronze	Nitrile Rubber

POSITIONING TIMES WITH HM01-37x240

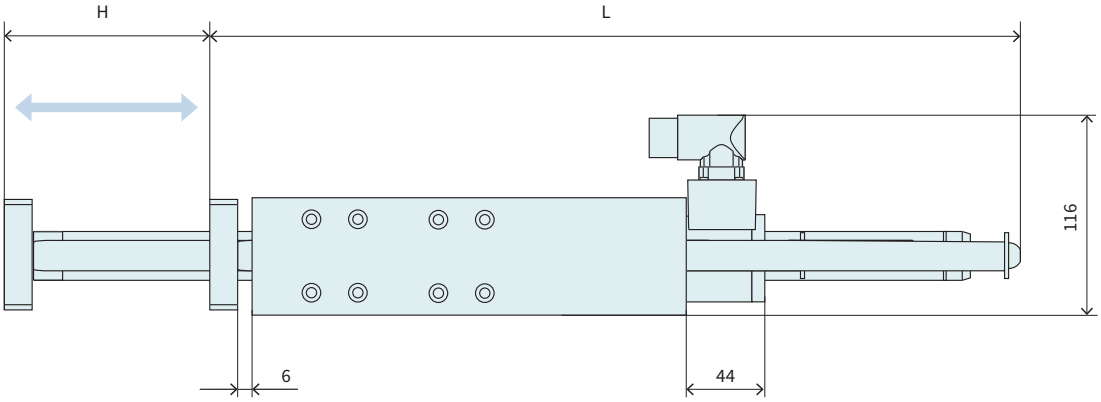


Minimum positioning times for horizontal motions with different load masses, controlled by an E1100-HC Servo Drive.

ORDERING INFORMATION

HM01-37x240/60	**Linear Module 37x240 with 60mm Stroke**				
	Linear Guide	H01-37x286/60	H01 for P01-37x240, 60 mm Stroke, Ball Bearings		0150-5023
		H01-37x286/60-GF	H01 for P01-37x240, 60 mm Stroke, Plain Bushings		0150-5083
	Stator	PS01-37x240-C	Linear motor Stator, connector C - IP67		0150-1224
		PS01-37x240F-C	Linear motor Stator, connector C - IP67	Fast Winding	0150-1225
		PS01-37x240-C20	Linear motor Stator, 0.2 m Cable, connector C - IP67		0150-1238
		PS01-37x240F-C20	Linear motor Stator, 0.2 m Cable, connector C - IP67	Fast Winding	0150-1239
		PS01-37x240	Linear motor Stator, 1.5 m Cable, connector P		0150-1203
		PS01-37x240F	Stator, cable 1.5 m, connector P/10(m)		0150-1256
	Slider	PL01-20x400/340-LC	Slider 'standard LC'		0150-2562
HM01-37x240/160	**Linear Module 37x240 with 160 mm Stroke**				
	Linear Guide	H01-37x286/160	H01 for P01-37x240, 160 mm Stroke, Ball Bearings		0150-5024
		H01-37x286/160-GF	H01 for P01-37x240, 160 mm Stroke, Plain Bushings		0150-5084
	Stator	PS01-37x240-C	Linear motor Stator, connector C - IP67		0150-1224
		PS01-37x240F-C	Linear motor Stator, connector C - IP67	Fast Winding	0150-1225
		PS01-37x240-C20	Linear motor Stator, 0.2 m Cable, connector C - IP67		0150-1238
		PS01-37x240F-C20	Linear motor Stator, 0.2 m Cable, connector C - IP67	Fast Winding	0150-1239
		PS01-37x240	Linear motor Stator, 1.5 m Cable, connector P		0150-1203
		PS01-37x240F	Stator, cable 1.5 m, connector P/10(m)		0150-1256
	Slider	PL01-20x400/340-LC	Slider 'standard LC'		0150-2563
HM01-37x240/260	**Linear Module 37x240 with 260 mm Stroke**				
	Linear Guide	H01-37x286/260	H01 for P01-37x240, 260 mm Stroke, Ball Bearings		0150-5025
		H01-37x286/260-GF	H01 for P01-37x240, 260 mm Stroke, Plain Bushings		0150-5085
	Stator	PS01-37x240-C	Linear motor Stator, connector C - IP67		0150-1224
		PS01-37x240F-C	Linear motor Stator, connector C - IP67	Fast Winding	0150-1225
		PS01-37x240-C20	Linear motor Stator, 0.2 m Cable, connector C - IP67		0150-1238
		PS01-37x240F-C20	Linear motor Stator, 0.2 m Cable, connector C - IP67	Fast Winding	0150-1239
		PS01-37x240	Linear motor Stator, 1.5 m Cable, connector P		0150-1203
		PS01-37x240F	Stator, cable 1.5 m, connector P/10(m)		0150-1256
	Slider	PL01-20x600/540-LC	Slider 'standard LC'		150-2564
ACCESSORIES					
	Brake	HB01-37	Pneumatic brake for H01-37/600N (4-6Bar)		0150-5052
	Fan	HV01-37/48	Fan for H01-37 und -48 Linear Guides		0150-5051
	MagSpring	MF01-37/H37	Mounting flange for MagSpring M01-37x…		0250-2307
		MA01-37/H37	Montage Adapter for MagSpring M01-37x…		0250-0117
	Center Sleeve	HC01-09/04	Center Sleeve D9x4mm		0150-3251
	Wiper	HA01-27/20-F	Wiper for H01-37 guides, front side		0150-5108

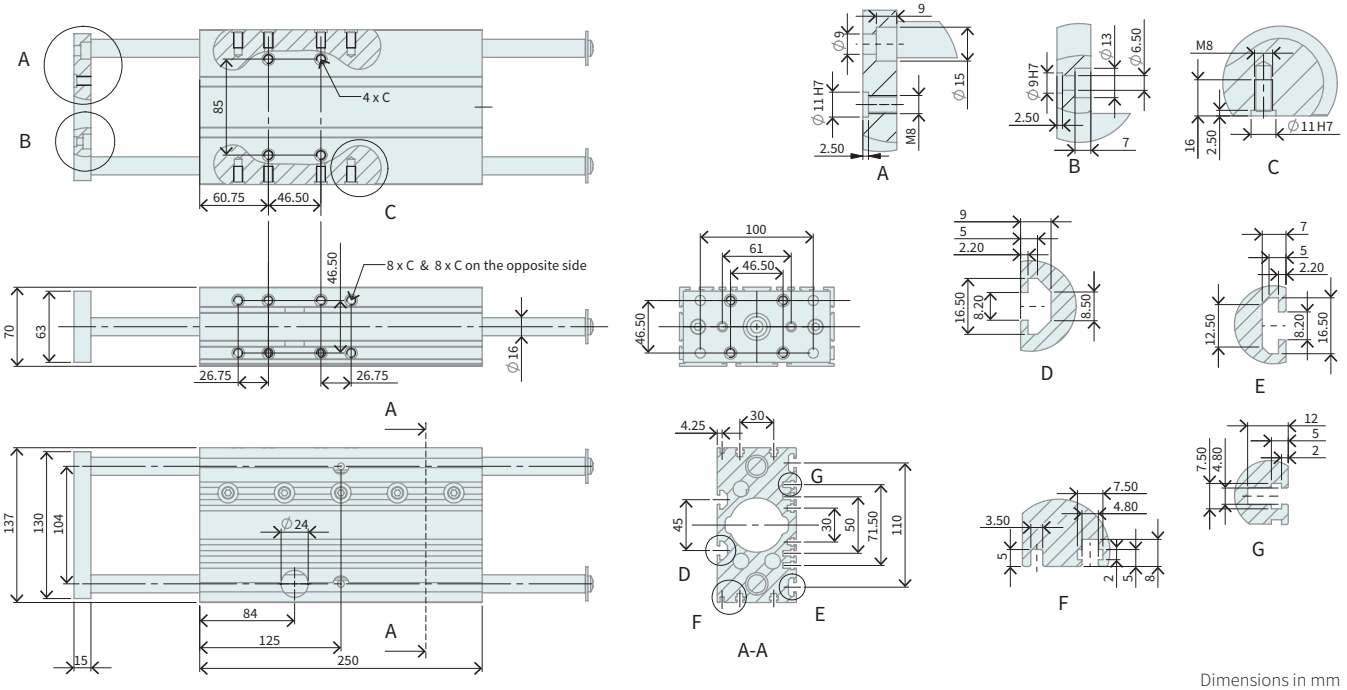
LINEAR MODULE HM01-48x240



Linear Module	Bearing type	Stroke H [mm (inch)]		Moving Parts L [mm (inch)]		Moving Mass [1] [g (lb)]		Total Weight [g (lb)]	
HM01-48x240/120	Ball bearings	120	(4.72)	460	(18.11)	3400	(7.47)	8950	(19.66)
HM01-48x240/210	Ball bearings	210	(8.27)	550	(21.65)	4100	(9.02)	9650	(21.21)
HM01-48x240/330	Ball bearings	330	(12.99)	670	(26.38)	5050	(11.07)	10600	(23.26)
HM01-48x240/420	Ball bearings	420	(16.54)	760	(29.92)	5750	(12.61)	11300	(24.80)
HM01-48x240/120-GF	Plain Bushings	120	(4.72)	460	(18.11)	3400	(7.47)	8950	(19.66)
HM01-48x240/210-GF	Plain Bushings	210	(8.27)	550	(21.65)	4100	(9.02)	9650	(21.21)
HM01-48x240/330-GF	Plain Bushings	330	(12.99)	670	(26.38)	5050	(11.07)	10600	(23.26)
HM01-48x240/420-GF	Plain Bushings	420	(16.54)	760	(29.92)	5750	(12.61)	11300	(24.80)

[1] Mass with moving slider

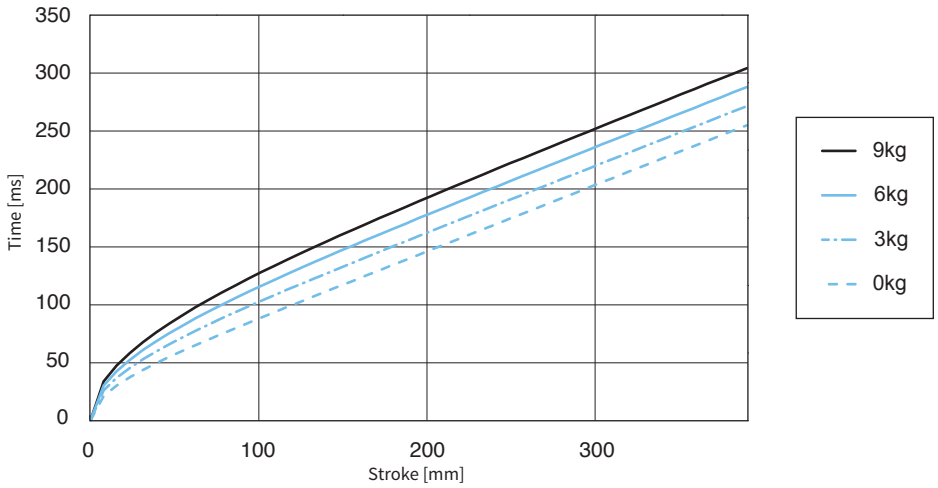
LINEAR GUIDES H01-48x250



Dimensions in mm

Materials		Guide Block & Front Plate	Guide Shaft	Bearing	Wipers
H01-48x250/…	Ball Bearings	Anodized Aluminum	Hardened Steel	Steel	Nitrile Rubber
H01-48x250/…-GF	Plain Bushings	Anodized Aluminum	Stainless Steel 1.4104	Sintered Bronze	Nitrile Rubber

POSITIONING TIMES WITH HM01-48x240

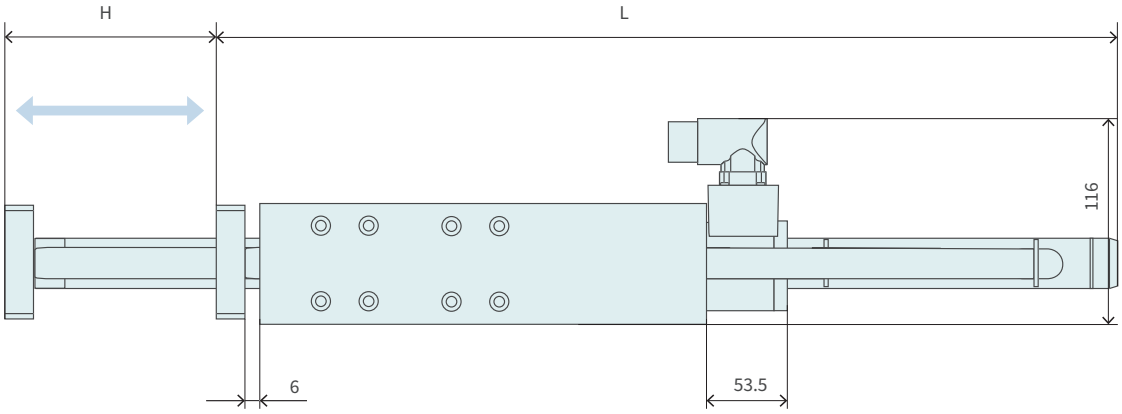


Minimum positioning times for horizontal motions with different load masses, controlled by an E1100-HC Servo Drive.

ORDERING INFORMATION

HM01-48x240/120	**Linear module 48x240 with 120mm Stroke**				
	Linear Guide	H01-48x250/120	H01 for P01-48x240, 120mm Stroke, Ball Bearings		0150-5100
		H01-48x250/120-GF	H01 for P01-48x240, 120mm Stroke, Plain Bushings		0150-5104
	Stator	PS01-48x240-C	Linear motor Stator, connector C - IP67		0150-1219
		PS01-48x240F-C	Linear motor Stator, connector C - IP67	Fast Winding	0150-1220
	Slider	PL01-28x410/330	Standard Slider for H01-48x250/120		0150-1381
HM01-48x240/210	**Linear module 48x240 with 210mm Stroke**				
	Linear Guide	H01-48x250/210	H01 for P01-48x240, 210mm Stroke, Ball Bearings		0150-5101
		H01-48x250/210-GF	H01 for P01-48x240, 210mm Stroke, Plain Bushings		0150-5105
	Stator	PS01-48x240-C	Linear motor Stator, connector C - IP67		0150-1219
		PS01-48x240F-C	Linear motor Stator, connector C - IP67	Fast Winding	0150-1220
	Slider	PL01-28x500/420	Standard Slider for H01-48x250/210		0150-1382
HM01-48x240/330	**Linear module 48x240 with 330mm Stroke**				
	Linear Guide	H01-48x250/330	H01 for P01-48x240, 330mm Stroke, Ball Bearings		0150-5102
		H01-48x250/330-GF	H01 for P01-48x240, 330mm Stroke, Plain Bushings		0150-5106
	Stator	PS01-48x240-C	Linear motor Stator, connector C - IP67		0150-1219
		PS01-48x240F-C	Linear motor Stator, connector C - IP67	Fast Winding	0150-1220
	Slider	PL01-28x620/540	Slider Standard for H01-48x250/330		0150-1383
HM01-48x240/420	**Linear module 48x240 with 420mm Stroke**				
	Linear Guide	H01-48x250/420	H01 for P01-48x240, 420mm Stroke, Ball Bearings		0150-5103
		H01-48x250/420-GF	H01 for P01-48x240, 420mm Stroke, Plain Bushings		0150-5107
	Stator	PS01-48x240-C	Linear motor Stator, connector C - IP67		0150-1219
		PS01-48x240F-C	Linear motor Stator, connector C - IP67	Fast Winding	0150-1220
	Slider	PL01-28x710/630	Slider Standard for H01-48x250/420		0150-1384
ACCESSORIES					
	Brake	HB01-48	Pneumatic Brake for H01-48/1000N(4-6Bar)		0150-5098
	Fan	HV01-37/48	Fan for H01-37 and -48 Linear Guides		0150-5051
	MagSpring	MF01-37/H37	Mounting flange for MagSpring M01-37x…		0250-2307
		MA01-37/H48	Mounting adapter for MagSpring M01-37x…		0250-0118
	Sliding Block	PFN01-8/M6	Sliding Block 8mm with M6 Thread		0150-3245
	Central Sleeve	HC01-11/05	Central Sleeve D11x5mm		0150-3252
	Wiper	HA01-48/28-F	Wiperfor H01-48 guides, front side		0150-5109

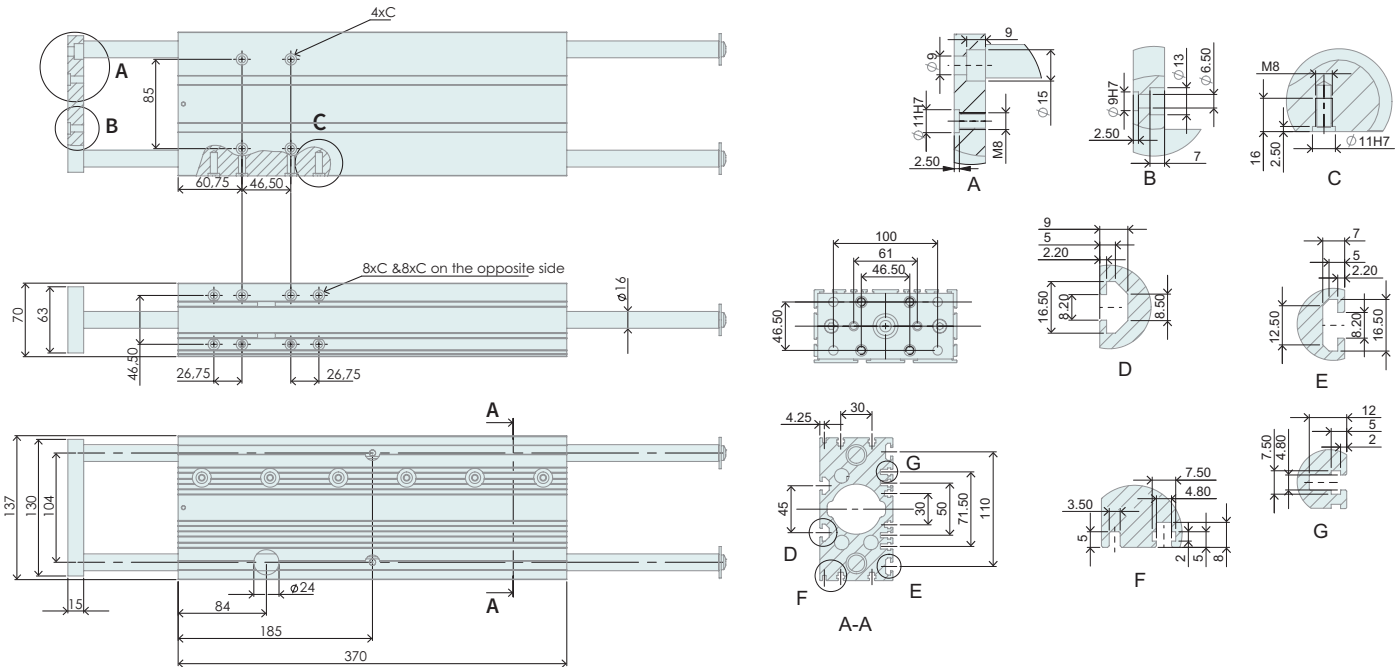
LINEAR MODULE HM01-48X360



Linear Module	Bearing type	Stroke H [mm (inch)]		Moving Parts L [mm (inch)]		Moving Mass [1] [g (lb)]		Total Weight [g (lb)]	
HM01-48x360/90	Ball bearings	90	(3.54)	521	(20.52)	4000	(8.84)	12300	(27.17)
HM01-48x360/210	Ball bearings	210	(8.27)	641	(25.25)	4910	(10.85)	13210	(29.18)
HM01-48x360/300	Ball bearings	300	(11.82)	731	(28.79)	5630	(12.44)	13930	(30.77)
HM01-48x360/510	Ball bearings	510	(20.01)	941	(37.06)	6980	(15.42)	15280	(33.76)
HM01-48x360/90-GF	Plain Bushings	90	(3.54)	521	(20.52)	4000	(8.84)	12300	(27.17)
HM01-48x360/210-GF	Plain Bushings	210	(8.27)	641	(25.25)	4910	(10.85)	13210	(29.18)
HM01-48x360/300-GF	Plain Bushings	300	(11.82)	731	(28.79)	5630	(12.44)	13930	(30.77)
HM01-48x360/510-GF	Plain Bushings	510	(20.01)	941	(37.06)	6980	(15.42)	15280	(23.76)

[1] Mass with moving slider

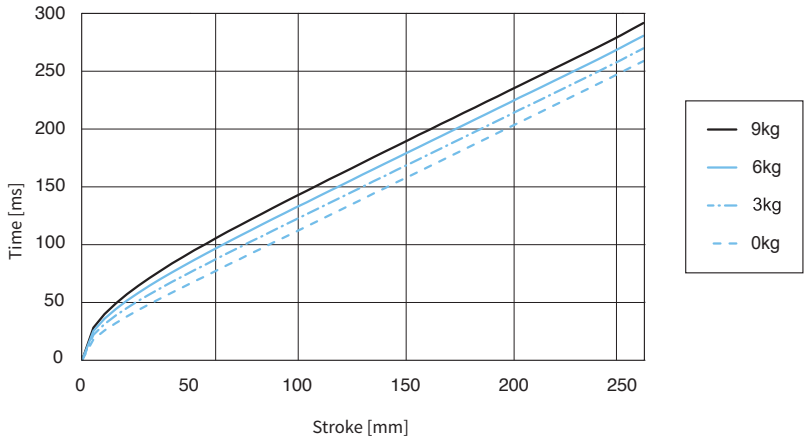
LINEAR GUIDES H01-48x370



Dimensions in mm

Materials		Guide Block & Front Plate	Guide Shaft	Bearing	Wipers
H01-48x370/…	Ball Bearings	Anodized Aluminum	Hardened Steel	Steel	Nitrile Rubber
H01-48x370/…-GF	Plain Bushings	Anodized Aluminum	Stainless Steel 1.4104	Sintered Bronze	Nitrile Rubber

POSITIONING TIMES WITH HM01-48x360



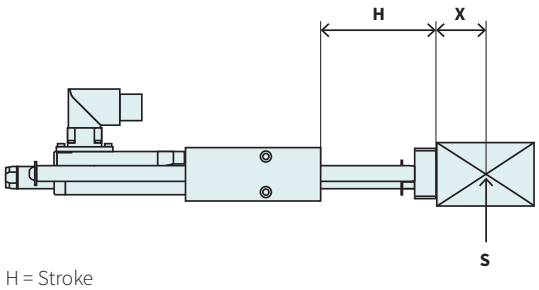
Minimum positioning times for horizontal motions with different load masses, controlled by an E1100-HC Servo Drive.

ORDERING INFORMATION

HM01-48x360/90	**Linear module 48x360 with 90 mm Stroke**				
	Linear Guides	H01-48x370/90	H01 for P01-48x360, 90 mm Stroke, Ball Bearings		0150-5240
		H01-48x370/90-GF	H01 for P01-48x360, 90 mm Stroke, Plain Bushings		0150-5243
	Stator	PS01-48x360F-C	Stator with IP67 connector M23/9(m)		0150-1269
	Slider	PL01-28x410/330	Slider 'standard' for H01-48x250/120		0150-1382
HM01-48x360/210	**Linear module 48x360 with 210 mm Stroke**				
	Linear Guides	H01-48x370/210	H01 for P01-48x360, 210 mm Stroke, Ball Bearings		0150-5241
		H01-48x370/210-GF	H01 for P01-48x360, 210 mm Stroke, Plain Bushings		0150-5244
	Stator	PS01-48x360F-C	Stator with IP67 connector M23/9(m)		0150-1269
	Slider	PL01-28x620/540	Slider 'standard' for H01-48x250/330		0150-1383
HM01-48x360/300	**Linear module 48x360 with 300 mm Stroke**				
	Linear Guides	H01-48x370/300	H01 for P01-48x360, 300 mm Stroke, Ball Bearings		0150-5242
		H01-48x370/300-GF	H01 for P01-48x360, 300 mm Stroke, Plain Bushings		0150-5245
	Stator	PS01-48x360F-C	Stator with IP67 connector M23/9(m)		0150-1269
	Slider	PL01-28x710/630	Slider 'standard' for H01-48x250/420		0150-1384
HM01-48x360/510	**Linear module 48x360 with 510 mm Stroke**				
	Linear Guides	H01-48x370/510	H01 for P01-48x360, 510 mm Stroke, Ball Bearings		0150-5252
		H01-48x370/510-GF	H01 for P01-48x360, 510 mm Stroke, Plain Bushings		auf Anfrage
	Stator	PS01-48x360F-C	Stator with IP67 connector M23/9(m)		0150-1269
	Slider	PL01-28x920/840	Slider 'standard'		0150-1386

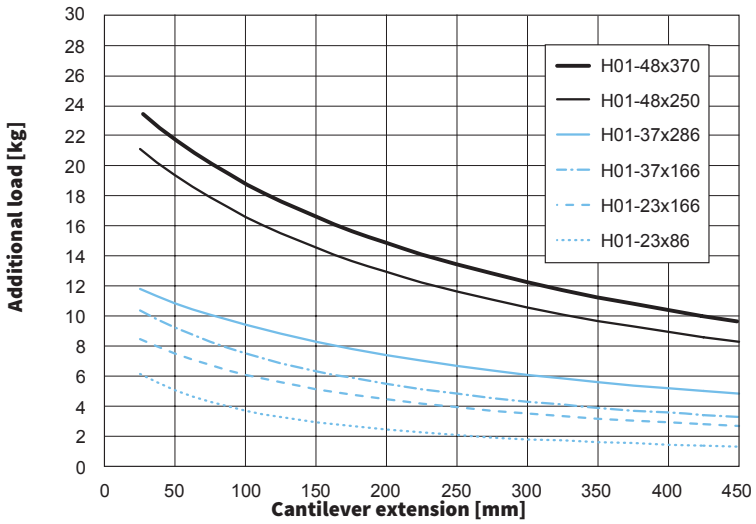
ACCESSORIES					
	Brake	HB01-48	Pneumatic brake for H01-48/1000N(4-6Bar)		0150-5098
	Fan	HV01-37/48	Fan for H01-37 und -48 Linear Guides		0150-5051
	MagSpring	MF01-37/H37	Mounting flange für MagSpring M01-37x…		0250-2307
		MA01-37/H48	Mounting adapter für MagSpring M01-37x…		0250-0118
	Sliding Block	PFN01-8/M6	Sliding Block 8mm with M6 thread		0150-3245
	Central Sleeve	HC01-11/05	Central Sleeve D11x5mm		0150-3252
	Wiper	HA01-48/28-F	Wiper for H01-48 guides, front side		0150-5109

MAXIMUM LOAD

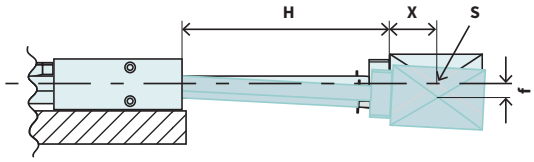


H = Stroke
X = Distance to center of gravity
S = Center of gravity
Cantilever extension = H + X

The maximum load depends on the cantilever extension (maximum stroke A plus distance between the center of gravity of the working load and the mounting surface).



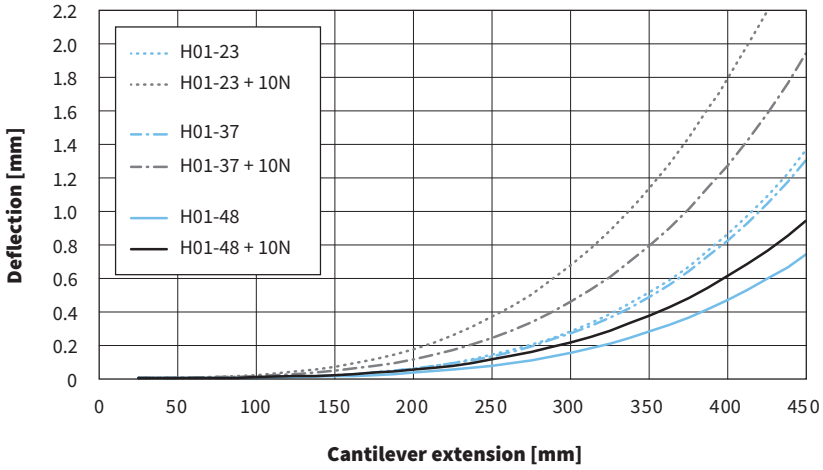
VERTICAL DEFLECTION



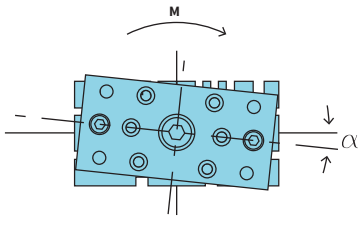
H = Stroke
S = Center of gravity
X = Distance to center of gravity
f = Deflection of theoretical axis

Total deflection =
Static deflection + deflection under load
Deflection measured at standstill, with 10N / 2.25lbf Load.

Deflection for smaller or larger load masses can be linearly extrapolated using the data for 10 N / 2.25 lbf.

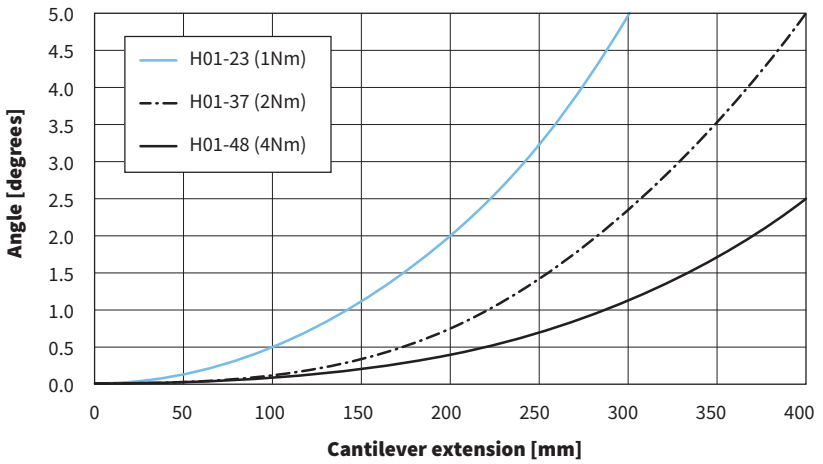


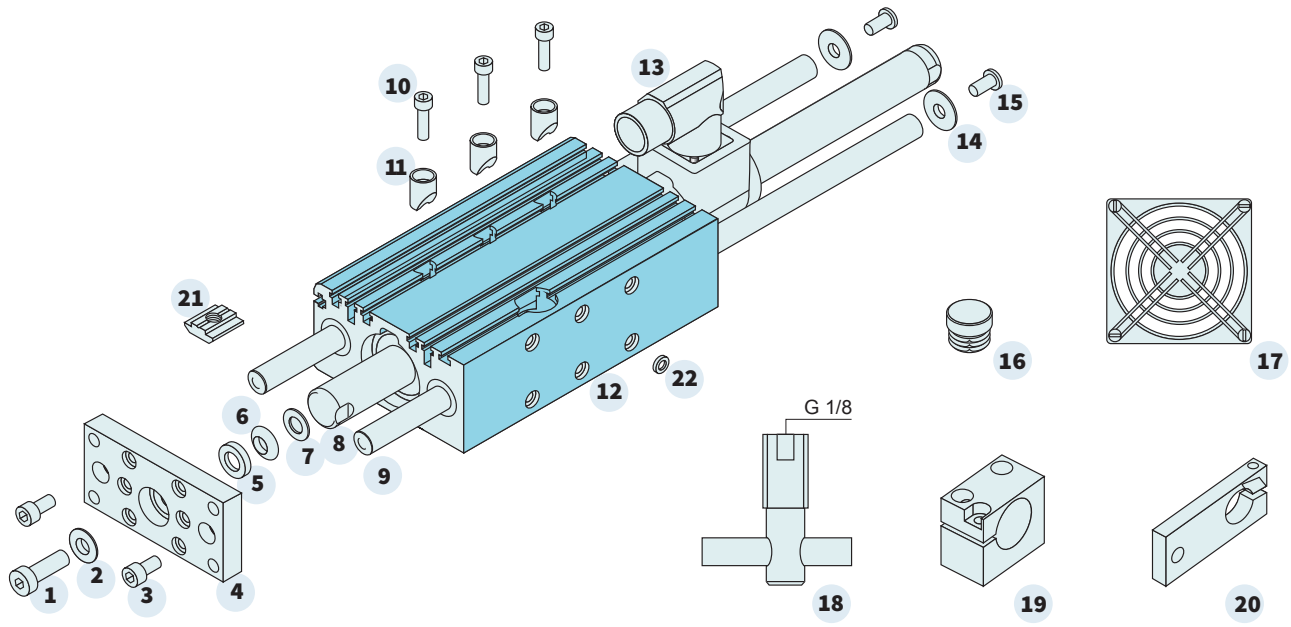
ANGULAR DEFLECTION



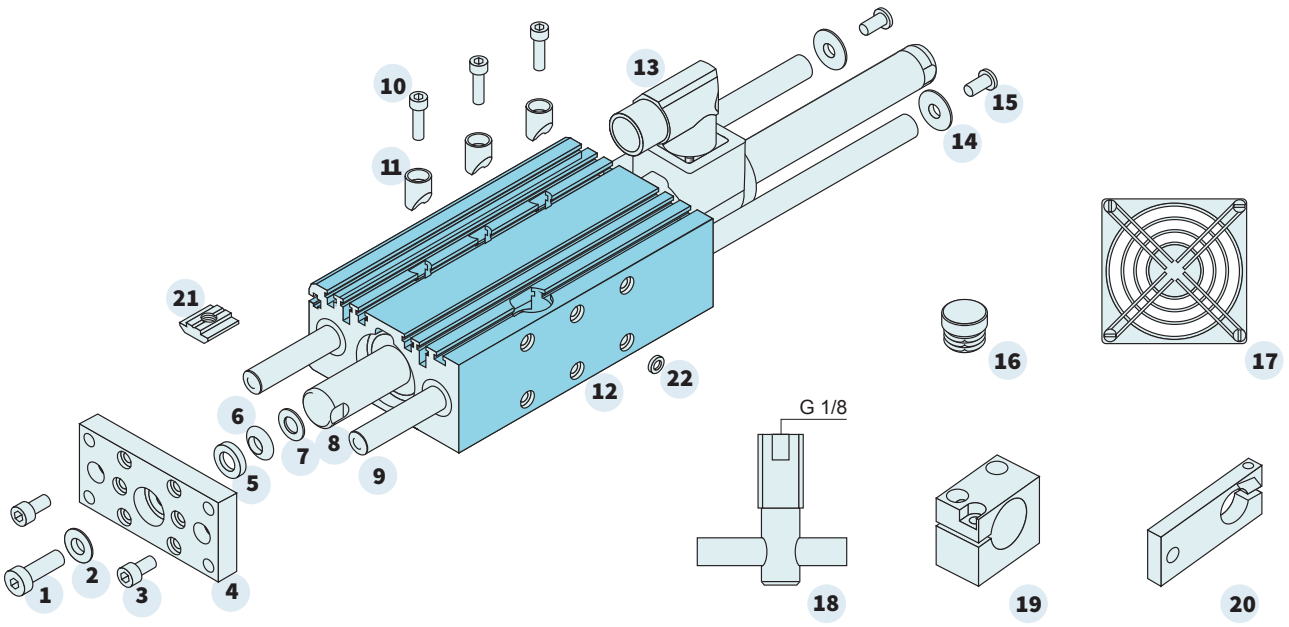
Angular deflection (twist) of the mounting plate depends on the torque load to be absorbed and the cantilever extension.

The angular deflection for smaller or larger torques can be linearly extrapolated from the deflection in the diagram.





PARTS LIST													
	Linear Guide H01	**H01-23x86**		**H01-23x166**		**H01-37x166**		**H01-37x286**		**H01-48x250**		**H01-48x370**	
1	Slider screw	ISO 4762 M5x18		ISO 4762 M5x18		DIN7984 M8x25		DIN7984 M8x25		DIN7984 M10x35		DIN7984 M10x35	
2	Socket washer (f)	DIN 6319 c / M6		DIN 6319 c / M6		DIN 6319 c / M8		DIN 6319 c / M8		DIN 6319 c / M10		DIN 6319 c / M10	
3	Shaft screw	ISO 4762 M5x12		ISO 4762 M5x12		ISO 4762 M6x12		ISO 4762 M6x12		ISO 4762 M8x20		ISO 4762 M8x20	
4	Front plate	0150-5004		0150-5004		0150-5005		0150-5005		0150-5087		0150-5087	
5	Ball washer (r)	DIN 6319 d / M5		DIN 6319 d / M5		DIN 6319 d / M8		DIN 6319 d / M8		DIN 6319 d / M10		DIN 6319 d / M10	
6	Socket washer (r)	DIN 6319 c / M5		DIN 6319 c / M5		DIN 6319 c / M8		DIN 6319 c / M8		DIN 6319 c / M10		DIN 6319 c / M10	
7	Dished washer	DIN 2093A 10/5,2/0,5		DIN 2093A 10/5,2/0,5		DIN 2093A 16/8,2/0,9		DIN 2093A 16/8,2/0,9		DIN 2093A 20/10,2/1,1		DIN 2093A 20/10,2/1,1	
8	Slider	PL01-12x...		PL01-12x...		PL01-20x...		PL01-20x...		PL01-28x...		PL01-28x...	
9	Hardened steel shafts for ball bearings	**HL01-10x...**	**Art-Nr.**	**HL01-10x...**	**Art-Nr.**	**HL01-12x...**	**Art-Nr.**	**HL01-12x...**	**Art-Nr.**	**HL01-16x...**	**Art-Nr.**	**HL01-16x...**	**Art-Nr.**
		160	0150-5006	260	0150-5007	260	0150-5010	360	0150-5011	440	0150-5090	487	0150-5119
		260	0150-5007	360	0150-5008	360	0150-5011	460	0150-5012	530	0150-5091	607	0150-5120
		360	0150-5008	460	0150-5009	460	0150-5012	560	0150-5013	650	0150-5092	697	0150-5121
										740	0150-5093	920	0150-5234
	Stainless steel shafts for plain bushings GF	160-GF	0150-5066	260-GF	0150-5067	260-GF	0150-5070	360-GF	0150-5071	440-GF	0150-5094	487-GF	0150-5127
		260-GF	0150-5067	360-GF	0150-5068	360-GF	0150-5071	460-GF	0150-5072	530-GF	0150-5095	607-GF	0150-5128
		360-GF	0150-5068	460-GF	0150-5069	460-GF	0150-5072	560-GF	0150-5073	650-GF	0150-5096	697-GF	0150-5129
										740-GF	0150-5097	920-GF	auf Anfrage
10	Clamping screw	ISO 4762 M5x18		ISO 4762 M5x18		ISO 4762 M5x18		ISO 4762 M5x18		ISO 4762 M6x25		ISO 4762 M6x25	
11	Clamping cylinder	0150-5053		0150-5054		0150-5055		0150-5056		0150-5086		0150-5086	
12	Guide block with ball bearings	0150-5000		0150-5001		0150-5002		0150-5003		0150-5088		0150-5194	
	Guide block with plain bushing GF	0150-5060		0150-5061		0150-5062		0150-5063		0150-5089		0150-5195	
13	Stator	**Typ**	**Art-Nr.**	**Typ**	**Art-Nr.**	**Typ**	**Art-Nr.**	**Typ**	**Art-Nr.**	**Typ**	**Art-Nr.**	**Typ**	**Art-Nr.**
		PS01-23x80-R	0150-1233	PS01-23x160-R	0150-1234	PS01-37x120-C	0150-1223	PS01-37x240-C	0150-1224	PS01-48x240-C	0150-1219	PS01-48x360F-C	0150-1269
		PS01-23x80-R20	0150-1241	PS01-23x160F-R	0150-1235	PS01-37x120-C20	0150-1237	PS01-37x240F-C	0150-1225	PS01-48x240F-C	0150-1220		
		PS01-23x80	0150-1201	PS01-23x160-R20	0150-1242	PS01-37x120	0150-1204	PS01-37x240-C20	0150-1238				
				PS01-23x160F-R20	0150-1243			PS01-37x240F-C20	0150-1239				
				PS01-23x160	0150-1202			PS01-37x240	0150-1203				



14	Washer	5x20/1,5	5x20/1,5	6x20/1,5	6x20/1,5	8x30/2,0	8x30/2,0
15	Shaft screw	ISO 7380 M5x12	ISO 7380 M5x12	ISO 7380 M6x12	ISO 7380 M6x12	ISO 7380 M8x16	ISO 7380 M8x16
16	Brake hole cap			HDPE 20mm	HDPE 20mm	HDPE 24mm	HDPE 24mm
Fan							
17	Set	0150-5050	0150-5050	0150-5051	0150-5051	0150-5051	0150-5051
Brake							
18	Pneumatic Brake			0150-5052	0150-5052	0150-5098	0150-5098
Magspring							
19	Flange	0250-2306	0250-2306	0250-2307	0250-2307	0250-2307	0250-2307
20	Adapter	0250-0116	0250-0116	0250-0117	0250-0117	0250-0118	0250-0118
Zubehör							
21	Sliding Block					0150-3245	0150-3245
22	Center Sleeve	0150-3251	0150-3251	0150-3251	0150-3251	0150-3252	0150-3252
23	Wiper			0150-5108	0150-5108	0150-5109	0150-5109

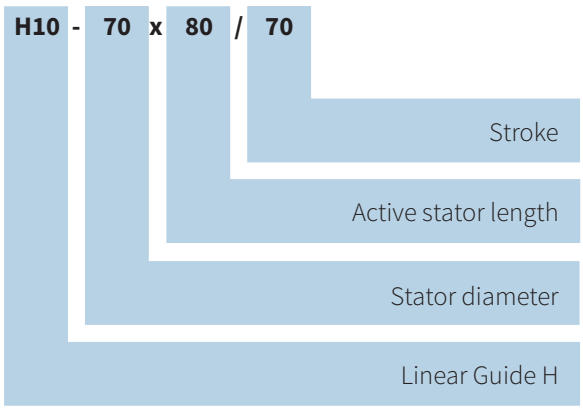
LINEAR GUIDES H10

- Bearing external forces, torque and bending moments
- Turning resistance
- Profile guide rail with four ball rows
- Load can be mounted directly to the front plate
- Easy assembly and replacement of individual components by modular design

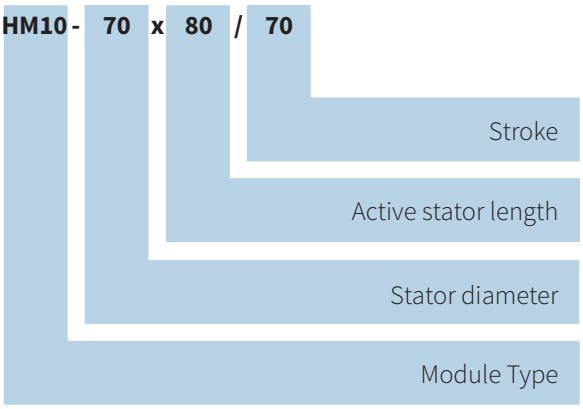
LINEAR GUIDES H10

1. Mounting plate with counter bore for precise load mounting
2. Hardened or stainless H-guide rods for precise positioning and quiet operation
3. Profile guide with four ball rows, for high load masses and long life
4. Guide block with counter bores for uncomplicated, precise mounting of the Linear Module
5. Integrated linear coupling for easy installation of the slider
6. Linear motor slider, guarantees maximum force and precise positioning
7. T-slots in the guide block allow simple mounting of accessories.
8. Clamping cylinder to secure the stator in the guide block
9. Linear motor stator with integrated bearings, temperature and position sensors

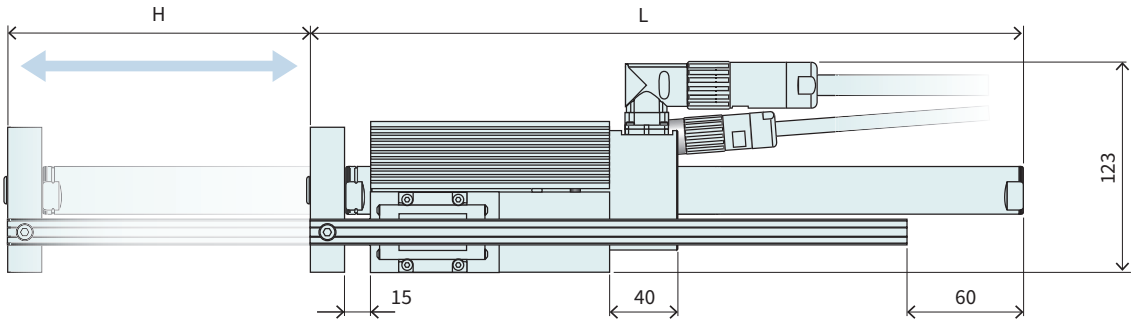
Designation Linear Guide H10



Designation Linear Module HM10



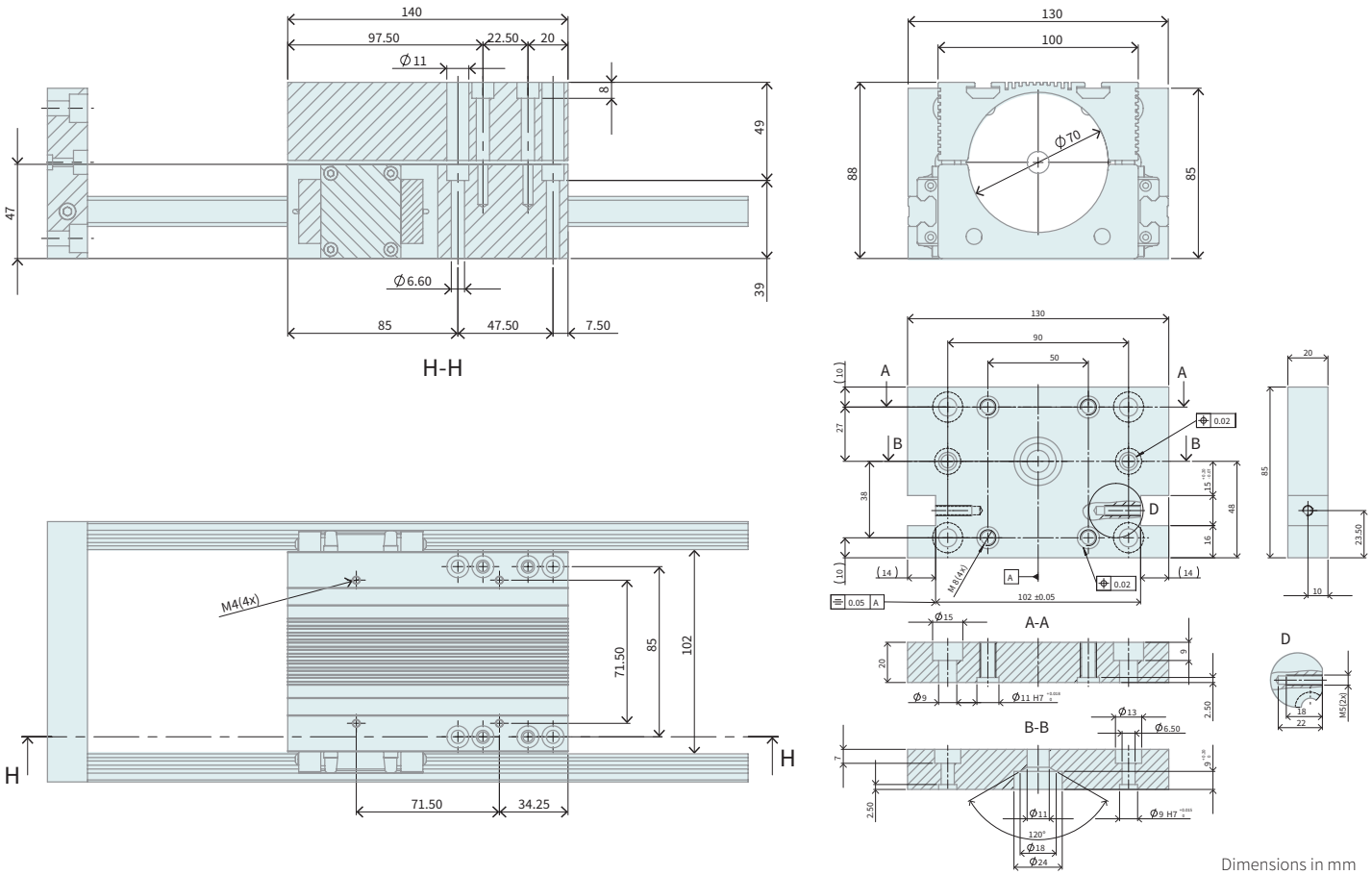
LINEAR MODULE HM10-70x80



Linear Module	Bearing type	Stroke H [mm (inch)]		Moving Parts L [mm (inch)]		Moving Mass [1] [g (lb)]		Total Weight [g (lb)]	
HM10-70x80/70	Ball Bearings	70	(2.76)	310	(12.20)	2850	(6.28)	8840	(19.49)
HM10-70x80/170	Ball Bearings	170	(6.69)	410	(16.14)	3640	(8.02)	9920	(21.87)
HM10-70x80/270	Ball Bearings	270	(10.63)	510	(20.05)	4430	(9.77)	11000	(24.25)
HM10-70x80/370	Ball Bearings	370	(14.57)	610	(24.02)	5220	(11.51)	12080	(26.63)
HM10-70x80/470	Ball Bearings	470	(18.50)	710	(27.95)	6110	(13.47)	13260	(29.23)

[1] Mass with moving slider

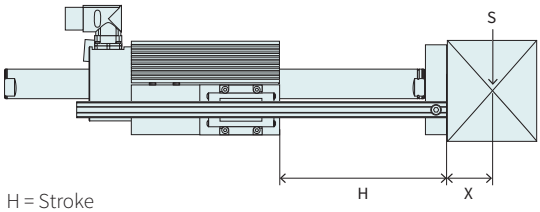
LINEAR GUIDES H10-70x80



Dimensions in mm

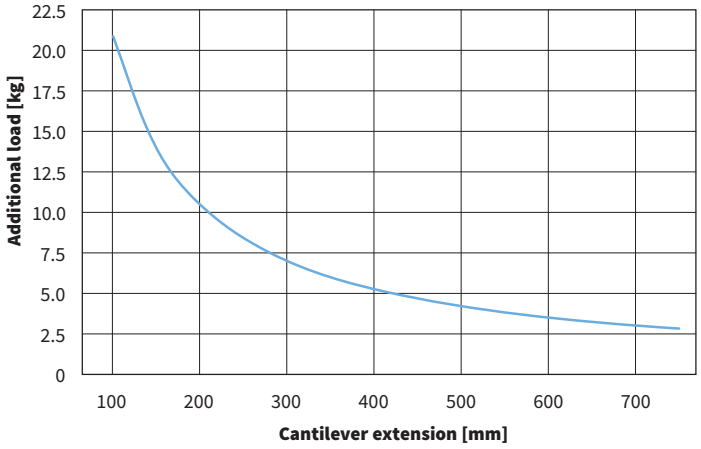
Materials	Guide Block & Front Plate	Guide Shaft	Bearing
H10-70x80/… Guiding carriage	Anodized Aluminum	Hardened Steel	Steel Ball Bearings

MAXIMUM LOAD WITH HM10-70x80



H = Stroke
X = Distance to center of gravity
S = Center of gravity
Cantilever extension = H + X

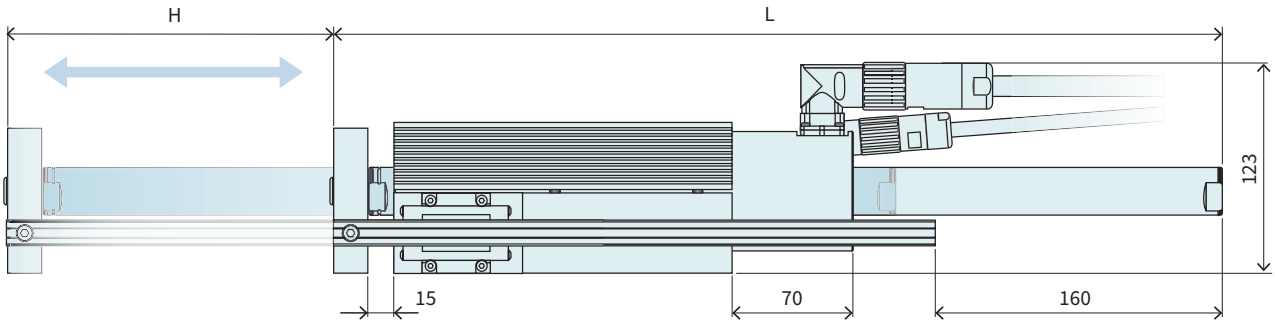
The maximum load depends on the cantilever extension (maximum stroke H plus distance X between the center of gravity of the working load and the mounting surface).



ORDERING INFORMATION

HM10-70x80/70	**Linear Module 70x80 with 70 mm Stroke**			
Linear Guide	H10-70x80/70	H-Guide for P10-70x80, Stroke max 70 mm		0150-5404
Stator	PS10-70x80U-BL-QJ	Stator 3x400VAC, LinMot Encoder		0150-1291
	PS10-70x80U-BL-QJ-D01	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY		0150-2282
	PS10-70x80U-BL-QJ-D02	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC		0150-2360
	PS10-70x80U-BL-QJ-D03	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector		0150-2708
Slider	PL10-28x290/240	Slider for P10-70 'standard'		0150-2193
HM10-70x80/170	**Linear Module 70x80 with 170 mm Stroke**			
Linear Guide	H10-70x80/170	H-Guide for P10-70x80, Stroke max 170 mm		0150-5405
Stator	PS10-70x80U-BL-QJ	Stator 3x400VAC, LinMot Encoder		0150-1291
	PS10-70x80U-BL-QJ-D01	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY		0150-2282
	PS10-70x80U-BL-QJ-D02	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC		0150-2360
	PS10-70x80U-BL-QJ-D03	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector		0150-2708
Slider	PL10-28x390/340	Slider for P10-70 'standard'		0150-2194
HM10-70x80/270	**Linear Module 70x80 with 270 mm Stroke**			
Linear Guide	H10-70x80/270	H-Guide for P10-70x80, Stroke max 270 mm		0150-5406
Stator	PS10-70x80U-BL-QJ	Stator 3x400VAC, LinMot Encoder		0150-1291
	PS10-70x80U-BL-QJ-D01	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY		0150-2282
	PS10-70x80U-BL-QJ-D02	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC		0150-2360
	PS10-70x80U-BL-QJ-D03	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector		0150-2708
Slider	PL10-28x490/440	Slider for P10-70 'standard'		0150-2195
HM10-70x80/370	**Linear Module 70x80 with 370 mm Stroke**			
Linear Guide	H10-70x80/370	H-Guide for P10-70x80, Stroke max 370 mm		0150-5407
Stator	PS10-70x80U-BL-QJ	Stator 3x400VAC, LinMot Encoder		0150-1291
	PS10-70x80U-BL-QJ-D01	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY		0150-2282
	PS10-70x80U-BL-QJ-D02	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC		0150-2360
	PS10-70x80U-BL-QJ-D03	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector		0150-2708
Slider	PL10-28x590/540	Slider for P10-70 'standard'		0150-2196
HM10-70x80/470	**Linear Module 70x80 with 470 mm Stroke**			
Linear Guide	H10-70x80/470	H-Guide for P10-70x80, Stroke max 470 mm		0150-5408
Stator	PS10-70x80U-BL-QJ	Stator 3x400VAC, LinMot Encoder		0150-1291
	PS10-70x80U-BL-QJ-D01	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY		0150-2282
	PS10-70x80U-BL-QJ-D02	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC		0150-2360
	PS10-70x80U-BL-QJ-D03	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector		0150-2708
Slider	PL10-28x690/640	Slider for P10-70 'standard'		0150-2197
ACCESSORIES				
Fan	HV01-37/48	Fan cooling for H01-37/48 & PF01-48		0150-5051

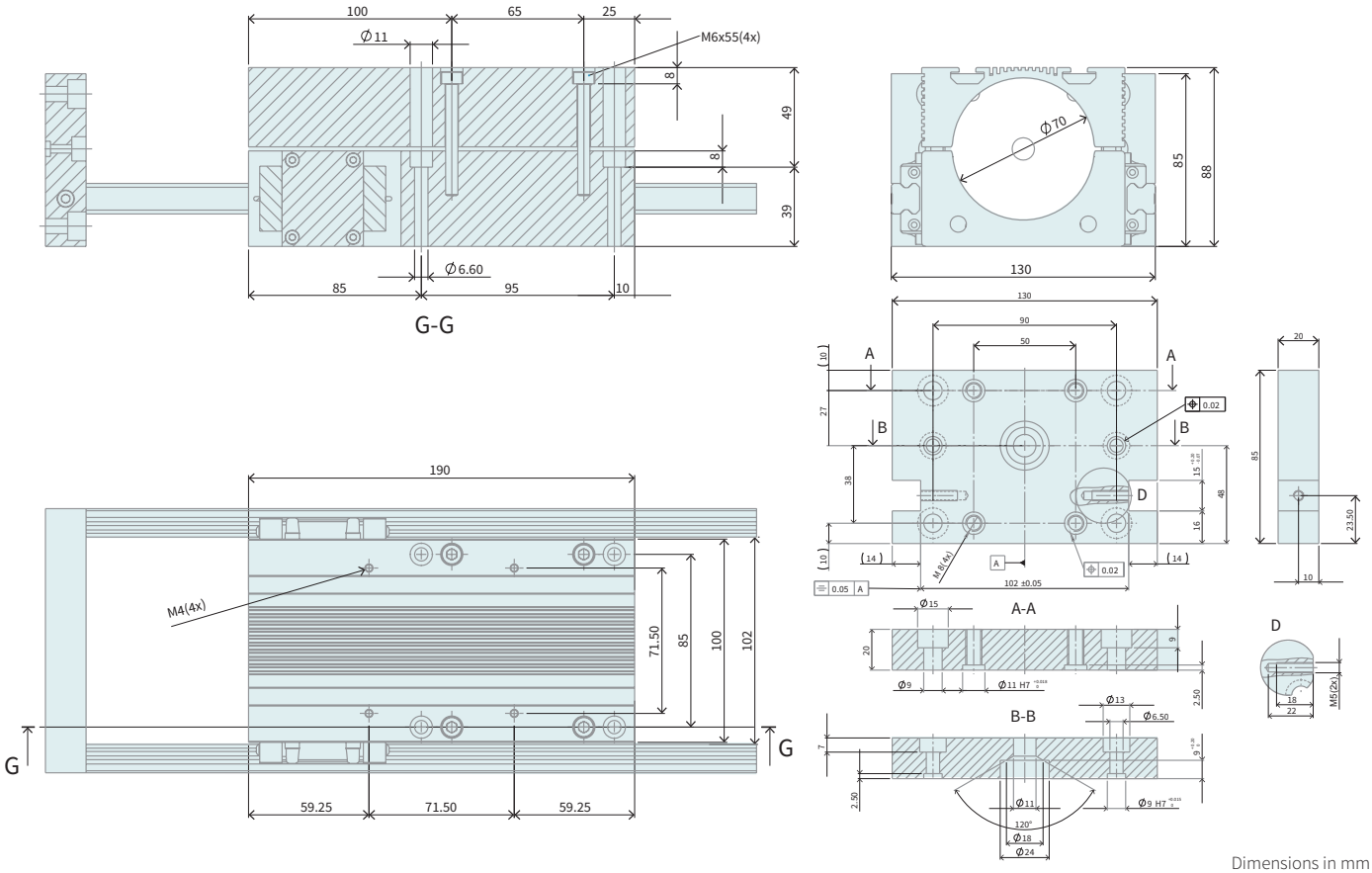
LINEAR MODULE HM10-70x160



Linear Module	Bearing type	Stroke H [mm (inch)]		Moving Parts L [mm (inch)]		Moving Mass [1] [g (lb)]		Total Weight [g (lb)]	
HM10-70x160/90	Ball Bearings	90	(3.54)	410	(16.14)	3350	(7.39)	10780	(23.77)
HM10-70x160/190	Ball Bearings	190	(7.48)	510	(20.05)	4140	(9.13)	11860	(26.15)
HM10-70x160/290	Ball Bearings	290	(11.42)	610	(24.02)	4930	(10.87)	12940	(28.53)
HM10-70x160/390	Ball Bearings	390	(15.35)	710	(27.95)	5820	(12.83)	14120	(31.13)
HM10-70x160/490	Ball Bearings	490	(19.29)	810	(31.89)	6710	(14.79)	15300	(33.73)

[1] Mass with moving slider

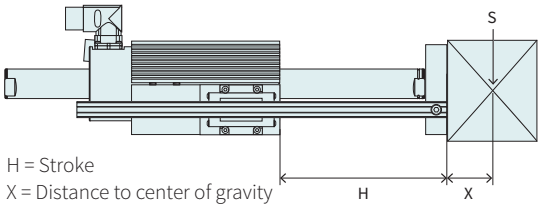
LINEAR GUIDES H10-70x160



Dimensions in mm

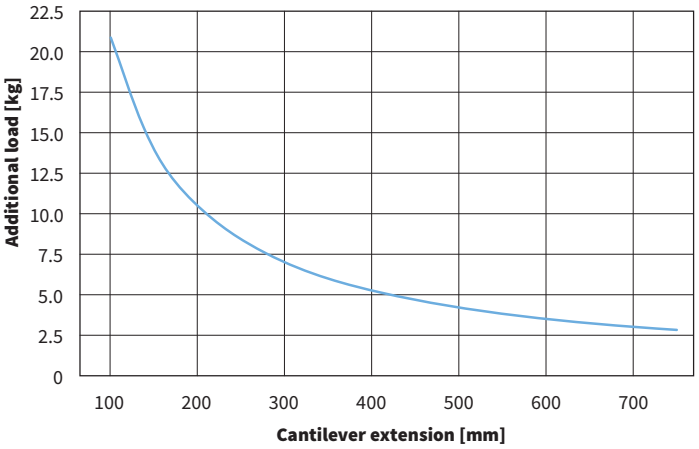
Materials	Guide Block & Front Plate	Guide Shaft	Bearing
H10-70x160/… Guiding carriage	Anodized Aluminum	Hardened Steel	Steel Ball Bearings

MAXIMUM LOAD WITH HM10-70x160



H = Stroke
X = Distance to center of gravity
S = Center of gravity
Cantilever extension = H + X

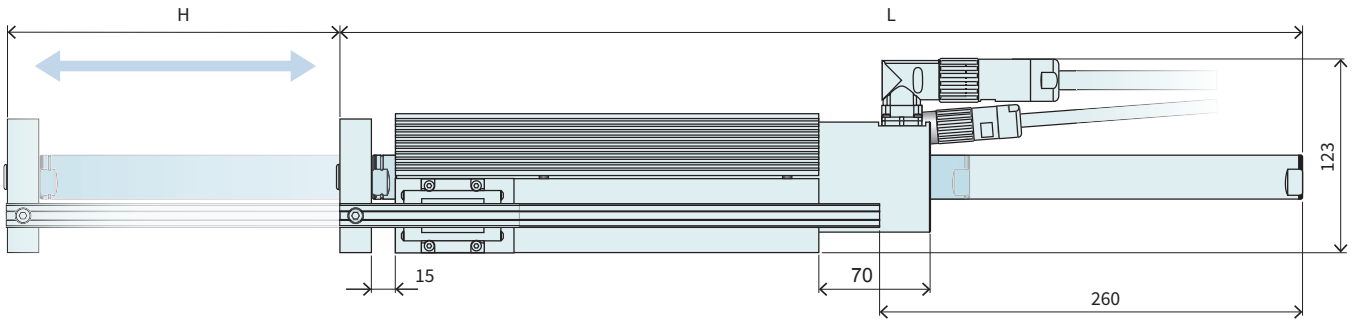
The maximum load depends on the cantilever extension (maximum stroke H plus distance X between the center of gravity of the working load and the mounting surface).



ORDERING INFORMATION

HM10-70x160/90	**Linear Module 70x160 with 90 mm Stroke**			
Linear Guide	H10-70x160/90	H-Guide for P10-70x160, 90 mm Stroke		0150-5409
Stator	PS10-70x160U-BL-QJ	Stator 3x400VAC, LinMot Encoder		0150-1292
	PS10-70x160U-BL-QJ-D01	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY		0150-2283
	PS10-70x160U-BL-QJ-D02	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC		0150-2361
	PS10-70x160U-BL-QJ-D03	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector		0150-2709
Slider	PL10-28x390/340	Slider for H10-70x160/90 'standard'		0150-2194
HM10-70x160/190	**Linear Module 70x160 with 190 mm Stroke**			
Linear Guide	H10-70x160/190	H-Guide for P10-70x160, 190 mm Stroke		0150-5410
Stator	PS10-70x160U-BL-QJ	Stator 3x400VAC, LinMot Encoder		0150-1292
	PS10-70x160U-BL-QJ-D01	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY		0150-2283
	PS10-70x160U-BL-QJ-D02	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC		0150-2361
	PS10-70x160U-BL-QJ-D03	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector		0150-2709
Slider	PL10-28x490/440	Slider for H10-70x160/190 'standard'		0150-2195
HM10-70x160/290	**Linear Module 70x160 with 290 mm Stroke**			
Linear Guide	H10-70x160/290	H-Guide for P10-70x160, 290 mm Stroke		0150-5411
Stator	PS10-70x160U-BL-QJ	Stator 3x400VAC, LinMot Encoder		0150-1292
	PS10-70x160U-BL-QJ-D01	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY		0150-2283
	PS10-70x160U-BL-QJ-D02	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC		0150-2361
	PS10-70x160U-BL-QJ-D03	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector		0150-2709
Slider	PL10-28x590/540	Slider for H10-70x160/290 'standard'		0150-2196
HM10-70x160/390	**Linear Module 70x160 with 390 mm Stroke**			
Linear Guide	H10-70x160/390	H-Guide for P10-70x160, 390 mm Stroke		0150-5412
Stator	PS10-70x160U-BL-QJ	Stator 3x400VAC, LinMot Encoder		0150-1292
	PS10-70x160U-BL-QJ-D01	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY		0150-2283
	PS10-70x160U-BL-QJ-D02	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC		0150-2361
	PS10-70x160U-BL-QJ-D03	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector		0150-2709
Slider	PL10-28x690/640	Slider for H10-70x160/390 'standard'		0150-2197
HM10-70x160/490	**Linear Module 70x160 with 490 mm Stroke**			
Linear Guide	H10-70x160/490	H-Guide for P10-70x160, 490 mm Stroke		0150-5413
Stator	PS10-70x160U-BL-QJ	Stator 3x400VAC, LinMot Encoder		0150-1292
	PS10-70x160U-BL-QJ-D01	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY		0150-2283
	PS10-70x160U-BL-QJ-D02	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC		0150-2361
	PS10-70x160U-BL-QJ-D03	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector		0150-2709
Slider	PL10-28x790/740	Slider for H10-70x160/490 'standard'		0150-2198
ACCESSORIES				
Fan	HV01-37/48	Fan cooling for H01-37/48 & PF02-37/48		0150-5051

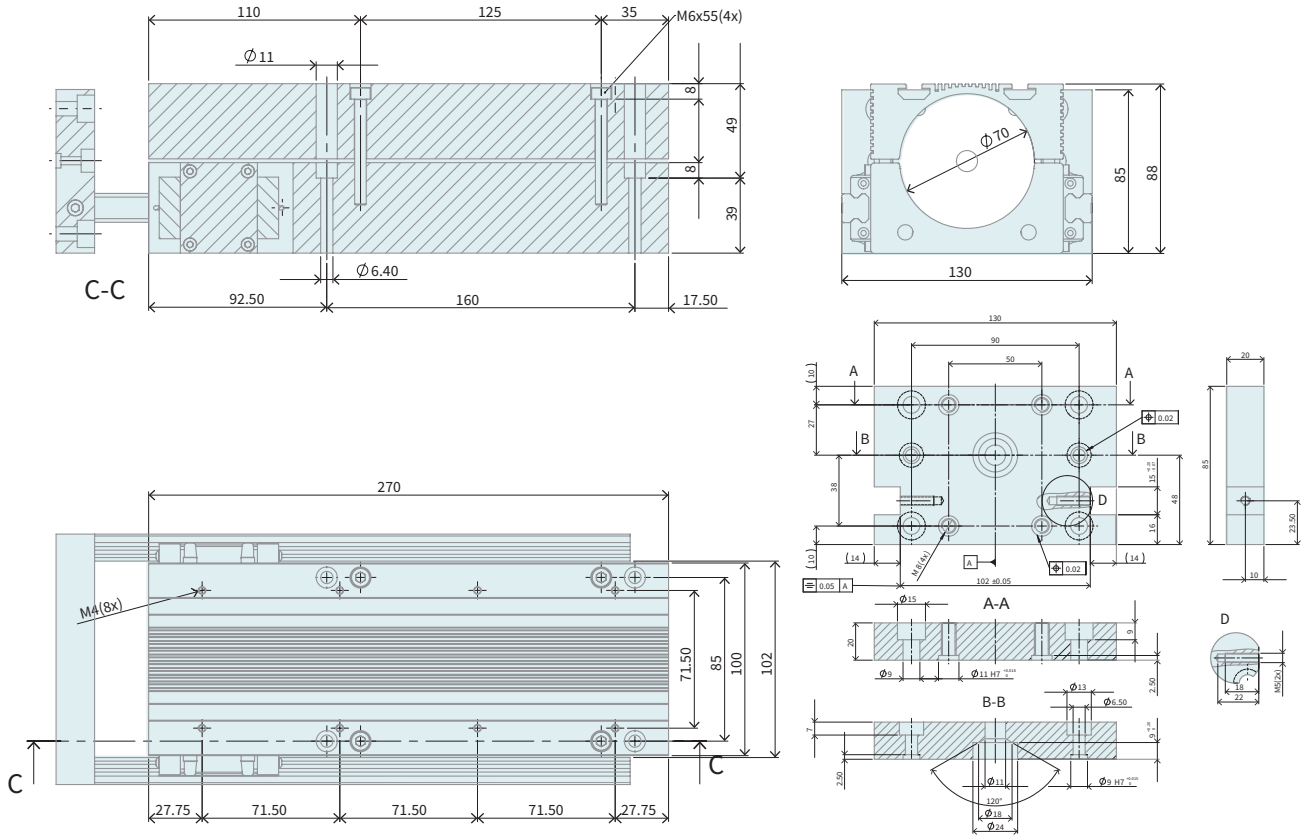
LINEAR MODULE HM10-70x240



Linear Module	Bearing type	Stroke H [mm (inch)]		Moving Parts L [mm (inch)]		Moving Mass [1] [g (lb)]		Total Weight [g (lb)]	
HM10-70x240/110	Ball Bearings	110	(4.33)	510	(20.05)	3850	(8.49)	14130	(31.15)
HM10-70x240/210	Ball Bearings	210	(8.27)	610	(24.02)	5240	(11.55)	15210	(33.53)
HM10-70x240/310	Ball Bearings	310	(12.20)	710	(27.95)	6130	(13.51)	16390	(36.13)
HM10-70x240/410	Ball Bearings	410	(16.41)	810	(31.89)	6920	(15.26)	17570	(38.74)
HM10-70x240/510	Ball Bearings	510	(20.08)	910	(35.83)	7810	(17.22)	18650	(41.12)

[1] Mass with moving slider

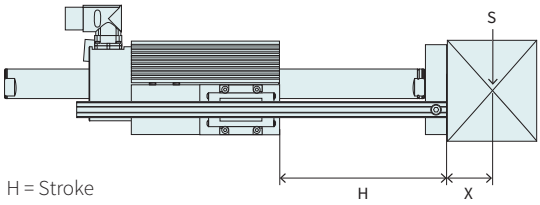
LINEAR GUIDES H10-70x240



Dimensions in mm

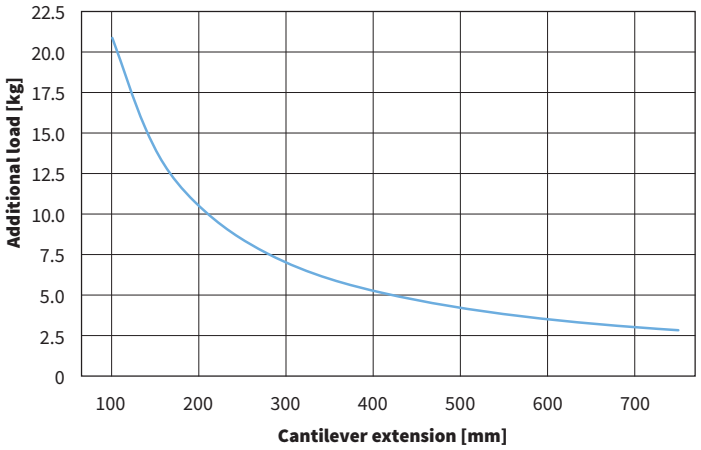
Materials	Guide Block & Front Plate	Guide Shaft	Bearing
H10-70x240/… Guiding carriage	Anodized Aluminum	Hardened Steel	Steel Ball Bearings

MAXIMUM LOAD WITH HM10-70x240



H = Stroke
X = Distance to center of gravity
S = Center of gravity
Cantilever extension = H + X

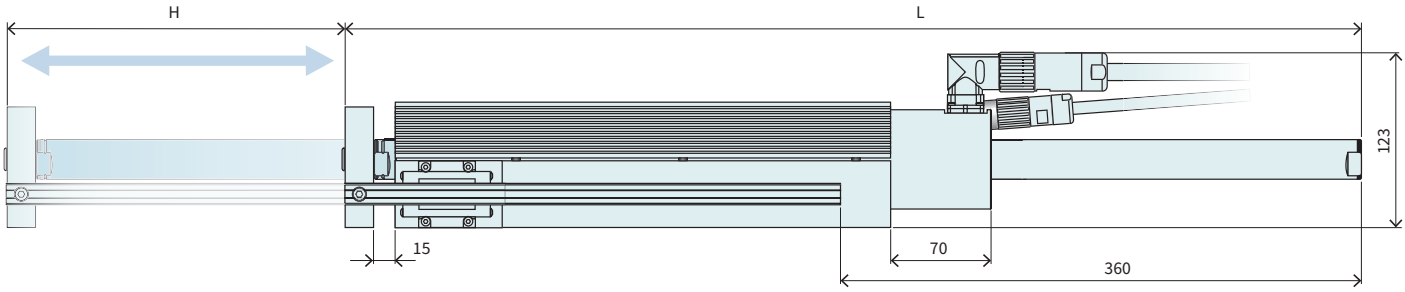
The maximum load depends on the cantilever extension (maximum stroke H plus distance X between the center of gravity of the working load and the mounting surface).



ORDERING INFORMATION

HM10-70x240/110	**Linear Module 70x240 with 110 mm Stroke**				
	Linear Guide	H10-70x240/110	H-Guide for P10-70x240, 110 mm Stroke		0150-5185
	Stator	PS10-70x240U-BL-QJ	Stator 3x400VAC, LinMot Encoder		0150-1293
		PS10-70x240U-BL-QJ-D01	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY		0150-2284
		PS10-70x240U-BL-QJ-D02	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC		0150-2362
		PS10-70x240U-BL-QJ-D03	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector		0150-2710
	Slider	PL10-28x490/440	Slider for H10-70x240/110 'standard'		0150-2195
HM10-70x240/210	**Linear Module 70x240 with 210 mm Stroke**				
	Linear Guide	H10-70x240/210	H-Guide for P10-70x240, 210 mm Stroke		0150-5400
	Stator	PS10-70x240U-BL-QJ	Stator 3x400VAC, LinMot Encoder		0150-1293
		PS10-70x240U-BL-QJ-D01	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY		0150-2284
		PS10-70x240U-BL-QJ-D02	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC		0150-2362
		PS10-70x240U-BL-QJ-D03	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector		0150-2710
	Slider	PL10-28x590/540	Slider for H10-70x240/210 'standard'		0150-2196
HM10-70x240/310	**Linear Module 70x240 with 310 mm Stroke**				
	Linear Guide	H10-70x240/310	H-Guide for P10-70x240, 310 mm Stroke		0150-5401
	Stator	PS10-70x240U-BL-QJ	Stator 3x400VAC, LinMot Encoder		0150-1293
		PS10-70x240U-BL-QJ-D01	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY		0150-2284
		PS10-70x240U-BL-QJ-D02	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC		0150-2362
		PS10-70x240U-BL-QJ-D03	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector		0150-2710
	Slider	PL10-28x690/640	Slider for H10-70x240/310 'standard'		0150-2197
HM10-70x240/410	**Linear Module 70x240 with 410 mm Stroke**				
	Linear Guide	H10-70x240/410	H-Guide for P10-70x240, 410 mm Stroke		0150-5402
	Stator	PS10-70x240U-BL-QJ	Stator 3x400VAC, LinMot Encoder		0150-1293
		PS10-70x240U-BL-QJ-D01	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY		0150-2284
		PS10-70x240U-BL-QJ-D02	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC		0150-2362
		PS10-70x240U-BL-QJ-D03	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector		0150-2710
	Slider	PL10-28x790/740	Slider for H10-70x240/410 'standard'		0150-2198
HM10-70x240/510	**Linear Module 70x240 with 510 mm Stroke**				
	Linear Guides	H10-70x240/510	H-Guide for P10-70x240, 510 mm Stroke		0150-5403
	Stator	PS10-70x240U-BL-QJ	Stator 3x400VAC, LinMot Encoder		0150-1293
		PS10-70x240U-BL-QJ-D01	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY		0150-2284
		PS10-70x240U-BL-QJ-D02	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC		0150-2362
		PS10-70x240U-BL-QJ-D03	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector		0150-2710
	Slider	PL10-28x890/840	Slider for H10-70x240/510 'standard'		0150-2199
ACCESSORIES					
	Fan	HV01-37/48	Fan cooling for H01-37/48 & PF02-37/48		0150-5051

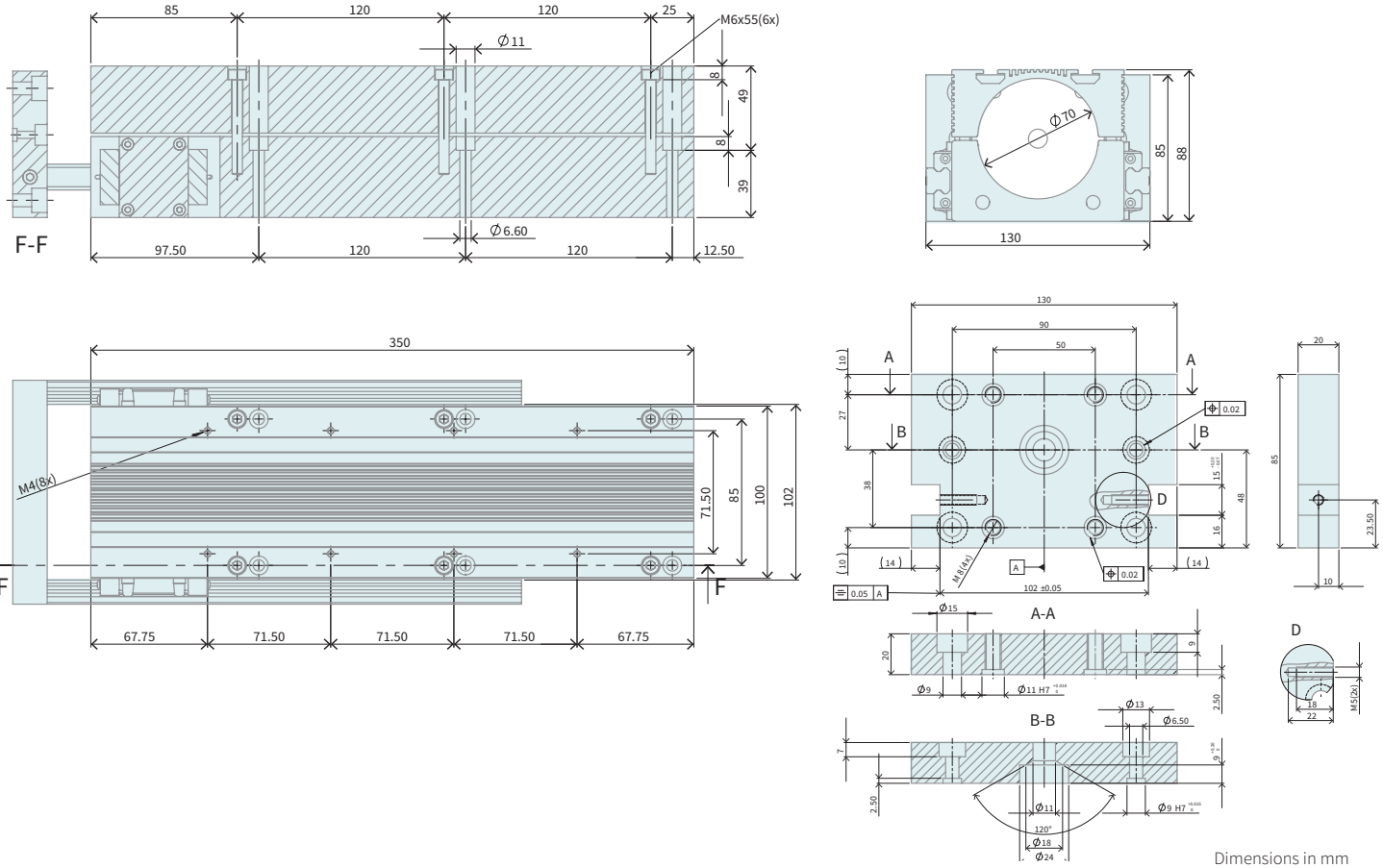
LINEAR MODULE HM10-70x320



Linear Module	Bearing type	Stroke H [mm (inch)]		Moving Parts L [mm (inch)]		Moving Mass [1] [g (lb)]		Total Weight [g (lb)]	
HM10-70x320/130	Ball Bearings	130	(5.12)	610	(24.02)	4350	(9.59)	15950	(35.16)
HM10-70x320/230	Ball Bearings	230	(9.06)	710	(27.95)	5240	(11.55)	17130	(37.77)
HM10-70x320/330	Ball Bearings	330	(12.99)	810	(31.89)	6130	(13.51)	18310	(40.37)
HM10-70x320/430	Ball Bearings	430	(16.93)	910	(35.83)	6920	(15.26)	19390	(42.75)
HM10-70x320/530	Ball Bearings	530	(20.87)	1010	(39.76)	7810	(17.22)	20570	(45.35)

[1] Mass with moving slider

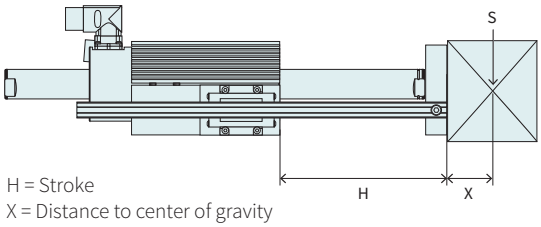
LINEAR GUIDES H10-70x320



Dimensions in mm

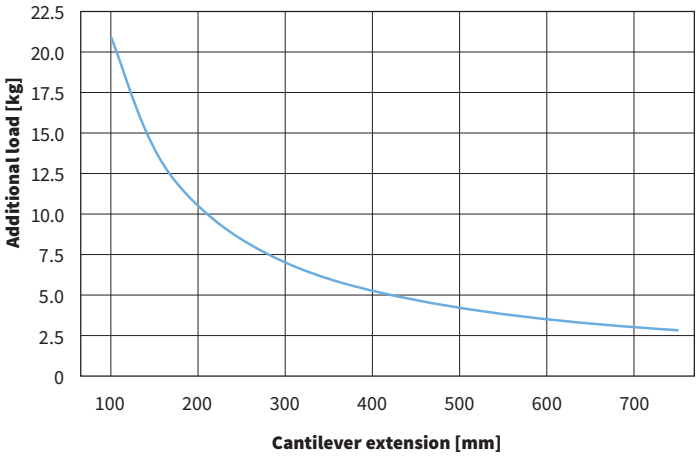
Materials	Guide Block & Front Plate	Guide Shaft	Bearing
H10-70x320/… Guiding carriage	Anodized Aluminum	Hardened Steel	Steel Ball Bearings

MAXIMUM LOAD WITH HM10-70x320



H = Stroke
X = Distance to center of gravity
S = Center of gravity
Cantilever extension = H + X

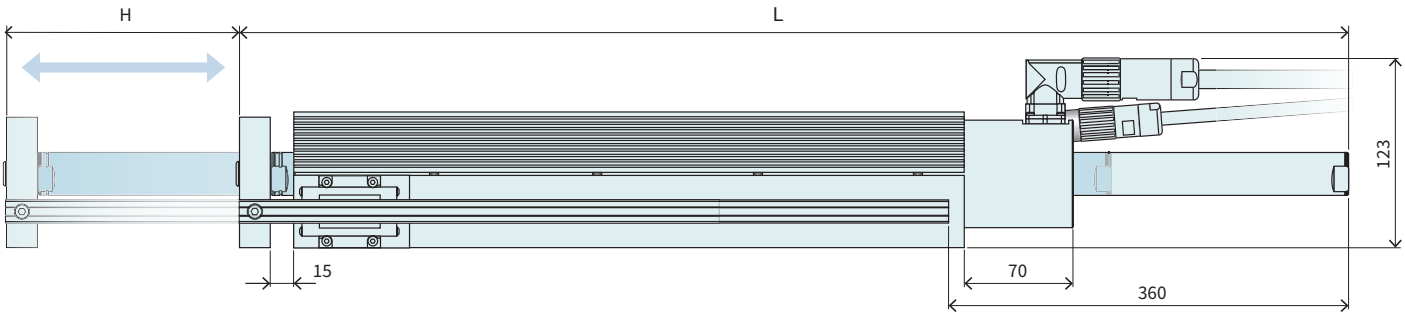
The maximum load depends on the cantilever extension (maximum stroke H plus distance X between the center of gravity of the working load and the mounting surface).



ORDERING INFORMATION

HM10-70x320/130	**Linear Module 70x320 with 130 mm Stroke**				
	Linear Guide	H10-70x320/130	H-Guide for P10-70x320, 130 mm Stroke		0150-5414
	Stator	PS10-70x320U-BL-QJ	Stator 3x400VAC, LinMot Encoder		0150-1284
		PS10-70x320U-BL-QJ-D01	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY		0150-2285
		PS10-70x320U-BL-QJ-D02	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC		0150-2343
		PS10-70x320U-BL-QJ-D03	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector		0150-2711
	Slider	PL10-28x590/540	Slider for H10-70x320/130		0150-2196
HM10-70x320/230	**Linear Module 70x320 with 230 mm Stroke**				
	Linear Guide	H10-70x320/230	H-Guide for P10-70x320, 230 mm Stroke		0150-5415
	Stator	PS10-70x320U-BL-QJ	Stator 3x400VAC, LinMot Encoder		0150-1284
		PS10-70x320U-BL-QJ-D01	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY		0150-2285
		PS10-70x320U-BL-QJ-D02	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC		0150-2343
		PS10-70x320U-BL-QJ-D03	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector		0150-2711
	Slider	PL10-28x690/640	Slider for H10-70x320/230 'standard'		0150-2197
HM10-70x320/330	**Linear Module 70x320 with 330 mm Stroke**				
	Linear Guide	H10-70x320/330	H-Guide for P10-70x320, 330 mm Stroke		0150-5416
	Stator	PS10-70x320U-BL-QJ	Stator 3x400VAC, LinMot Encoder		0150-1284
		PS10-70x320U-BL-QJ-D01	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY		0150-2285
		PS10-70x320U-BL-QJ-D02	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC		0150-2343
		PS10-70x320U-BL-QJ-D03	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector		0150-2711
	Slider	PL10-28x790/740	Slider for H10-70x320/330 'standard'		0150-2198
HM10-70x320/430	**Linear Module 70x320 with 430 mm Stroke**				
	Linear Guide	H10-70x320/430	H-Guide for P10-70x320, 430 mm Stroke		0150-5417
	Stator	PS10-70x320U-BL-QJ	Stator 3x400VAC, LinMot Encoder		0150-1284
		PS10-70x320U-BL-QJ-D01	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY		0150-2285
		PS10-70x320U-BL-QJ-D02	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC		0150-2343
		PS10-70x320U-BL-QJ-D03	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector		0150-2711
	Slider	PL10-28x890/840	Slider for H10-70x320/430 'standard'		0150-2199
HM10-70x320/530	**Linear Module 70x320 with 530 mm Stroke**				
	Linear Guide	H10-70x320/530	H-Guide for P10-70x320, 530 mm Stroke		0150-5418
	Stator	PS10-70x320U-BL-QJ	Stator 3x400VAC, LinMot Encoder		0150-1284
		PS10-70x320U-BL-QJ-D01	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY		0150-2285
		PS10-70x320U-BL-QJ-D02	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC		0150-2343
		PS10-70x320U-BL-QJ-D03	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector		0150-2711
	Slider	PL10-28x990/940	Slider for H10-70x320/530 'standard'		0150-2203
ACCESSORIES					
	Fan	HV01-37/48	Fan cooling for H01-37/48 & PF02-37/48		0150-5051

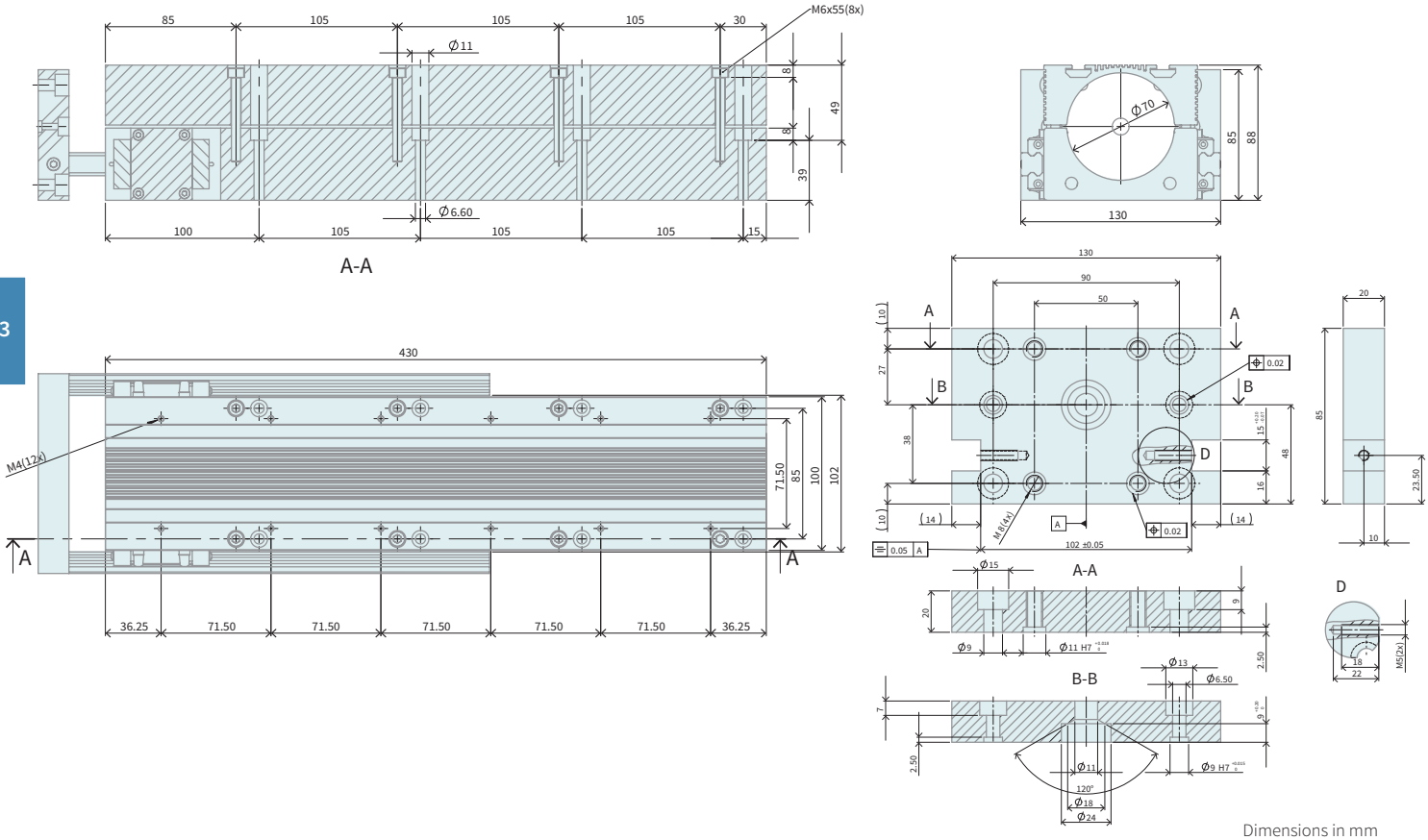
LINEAR MODULE HM10-70x400



Linear Module	Bearing type	Stroke H [mm (inch)]		Moving Parts L [mm (inch)]		Moving Mass [1] [g (lb)]		Total Weight [g (lb)]	
HM10-70x400/50	Ball Bearings	50	(1.97)	610	(24.02)	4350	(9.59)	18040	(39.77)
HM10-70x400/150	Ball Bearings	150	(5.91)	710	(27.95)	5240	(11.55)	19220	(42.37)
HM10-70x400/250	Ball Bearings	250	(9.84)	810	(31.89)	6130	(13.51)	20400	(44.97)
HM10-70x400/350	Ball Bearings	350	(13.78)	910	(35.83)	6920	(15.26)	21480	(47.36)
HM10-70x400/450	Ball Bearings	450	(17.72)	1010	(39.76)	7810	(17.22)	22660	(49.96)

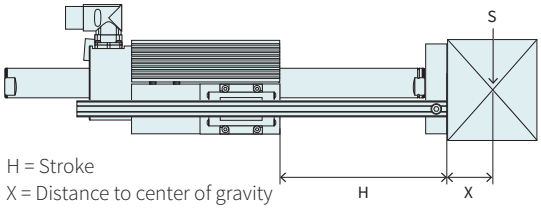
[1] Mass with moving slider

LINEAR GUIDES H10-70x400



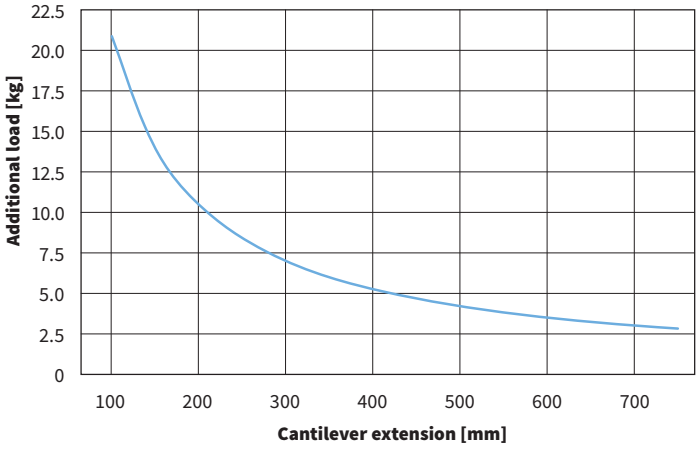
Materials	Guide Block & Front Plate	Guide Shaft	Bearing
H10-70x400/… Guiding carriage	Anodized Aluminum	Hardened Steel	Steel Ball Bearings

MAXIMUM LOAD WITH HM10-70x400



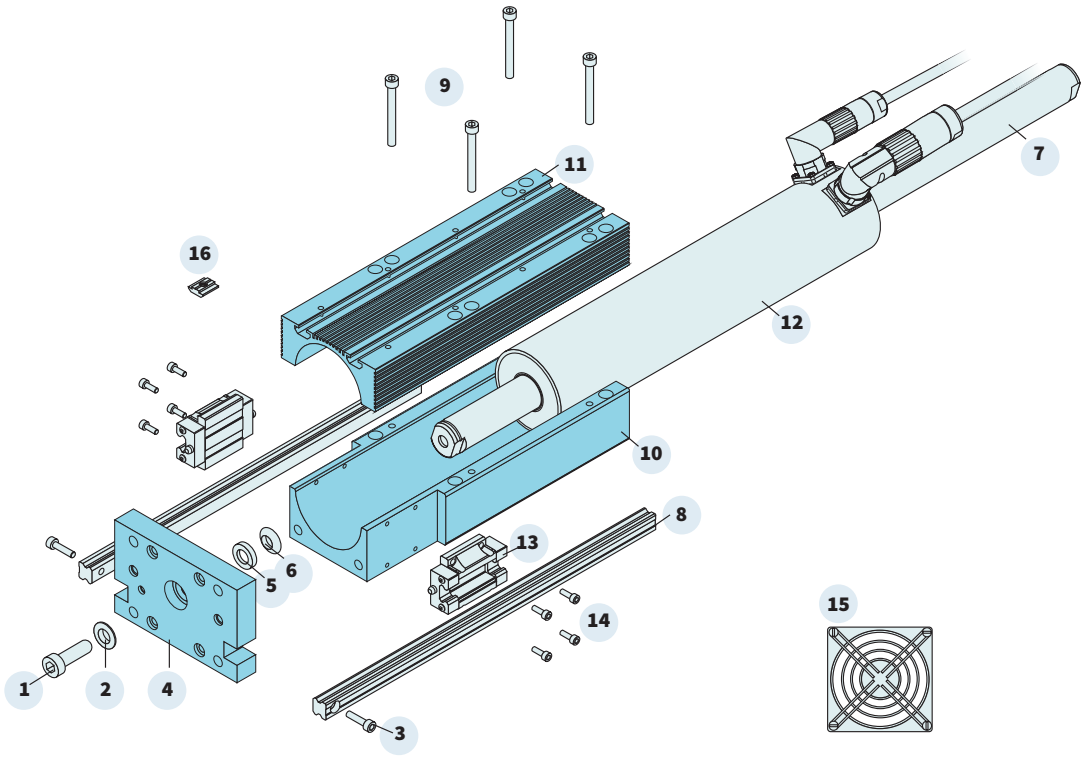
H = Stroke
X = Distance to center of gravity
S = Center of gravity
Cantilever extension = H + X

The maximum load depends on the cantilever extension (maximum stroke H plus distance X between the center of gravity of the working load and the mounting surface).



ORDERING INFORMATION

HM10-70x400/50	**Linear Module 70x400 with 50 mm Stroke**				
	Linear Guide	H10-70x400/50	H-Guide for P10-70x400, 50 mm Stroke		0150-5419
	Stator	PS10-70x400U-BL-QJ	Stator 3x400VAC, LinMot Encoder		0150-1294
		PS10-70x400U-BL-QJ-D01	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY		0150-2286
		PS10-70x400U-BL-QJ-D02	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC		0150-2363
		PS10-70x400U-BL-QJ-D03	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector		0150-2712
	Slider	PL10-28x590/540	Slider for H10-70x400/50 'standard'		0150-2196
HM10-70x400/150	**Linear Module 70x400 with 150 mm Stroke**				
	Linear Guide	H10-70x400/150	H-Guide for P10-70x400, 150 mm Stroke		0150-5420
	Stator	PS10-70x400U-BL-QJ	Stator 3x400VAC, LinMot Encoder		0150-1294
		PS10-70x400U-BL-QJ-D01	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY		0150-2286
		PS10-70x400U-BL-QJ-D02	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC		0150-2363
		PS10-70x400U-BL-QJ-D03	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector		0150-2712
	Slider	PL10-28x690/640	Slider for H10-70x400/150 'standard'		0150-2197
HM10-70x400/250	**Linear Module 70x400 with 250 mm Stroke**				
	Linear Guide	H10-70x400/250	H-Guide for P10-70x400, 250 mm Stroke		0150-5421
	Stator	PS10-70x400U-BL-QJ	Stator 3x400VAC, LinMot Encoder		0150-1294
		PS10-70x400U-BL-QJ-D01	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY		0150-2286
		PS10-70x400U-BL-QJ-D02	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC		0150-2363
		PS10-70x400U-BL-QJ-D03	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector		0150-2712
	Slider	PL10-28x790/740	Slider for H10-70x400/250 'standard'		0150-2198
HM10-70x400/350	**Linear Module 70x400 with 350 mm Stroke**				
	Linear Guide	H10-70x400/350	H-Guide for P10-70x400, 350 mm Stroke		0150-5422
	Stator	PS10-70x400U-BL-QJ	Stator 3x400VAC, LinMot Encoder		0150-1294
		PS10-70x400U-BL-QJ-D01	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY		0150-2286
		PS10-70x400U-BL-QJ-D02	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC		0150-2363
		PS10-70x400U-BL-QJ-D03	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector		0150-2712
	Slider	PL10-28x890/840	Slider for H10-70x400/350 'standard'		0150-2199
HM10-70x400/450	**Linear Module 70x400 with 450 mm Stroke**				
	Linear Guide	H10-70x400/450	H-Guide for P10-70x400, 450 mm Stroke		0150-5423
	Stator	PS10-70x400U-BL-QJ	Stator 3x400VAC, LinMot Encoder		0150-1294
		PS10-70x400U-BL-QJ-D01	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY		0150-2286
		PS10-70x400U-BL-QJ-D02	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC		0150-2363
		PS10-70x400U-BL-QJ-D03	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector		0150-2712
	Slider	PL10-28x990/940	Slider for H10-70x400/450 'standard'		0150-2203
ZUBEHÖR					
	Fan	HV01-37/48	Fan cooling for H01-37/48 & PF02-37/48		0150-5051

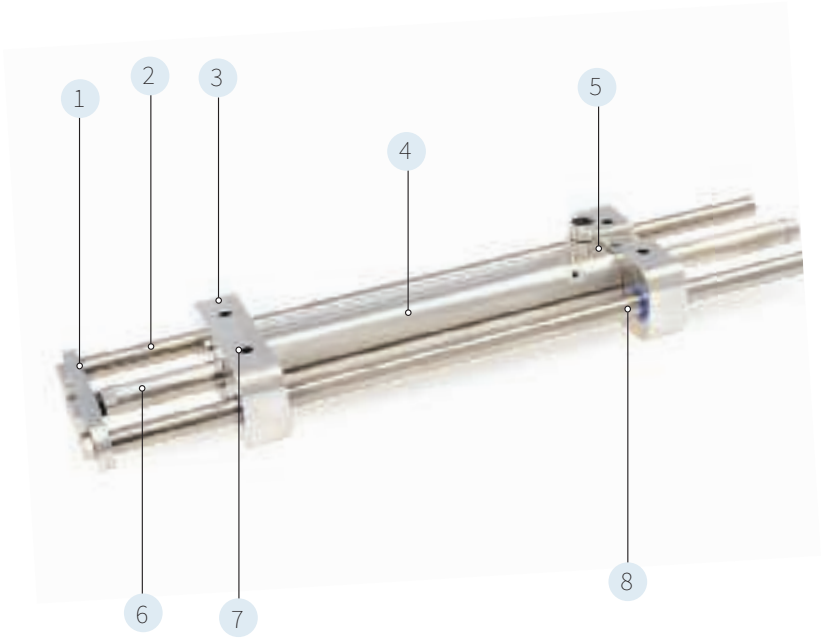


PARTS LIST											
	Linear Guide	**H10-70x80**		**H10-70x160**		**H10-70x240**		**H10-70x320**		**H10-70x400**	
1	Slider screw	0230-0181		0230-0181		0230-0181		0230-0181		0230-0181	
2	Socket washer (f)	0160-0807		0160-0807		0160-0807		0160-0807		0160-0807	
3	Rod screws	0230-0097		0230-0097		0230-0097		0230-0097		0230-0097	
4	Front plate	0150-5183		0150-5183		0150-5183		0150-5183		0150-5183	
5	Ball washer (r)	0160-0801		0160-0801		0160-0801		0160-0801		0160-0801	
6	Socket washer (r)	0160-0807		0160-0807		0160-0807		0160-0807		0160-0807	
7	Slider	**PL10-28x...**	**Art.-Nr.**	**PL10-28x...**	**Art.-Nr.**	**PL10-28x...**	**Art.-Nr.**	**PL10-28x...**	**Art.-Nr.**	**PL10-28x...**	**Art.-Nr.**
		...290/240	0150-2193	...390/340	0150-2194	...490/440	0150-2195	...590/540	0150-2196	...590/540	0150-2196
		...390/340	0150-2194	...490/440	0150-2195	...590/540	0150-2196	...690/640	0150-2197	...690/640	0150-2197
		...490/440	0150-2195	...590/540	0150-2196	...690/640	0150-2197	...790/740	0150-2198	...790/740	0150-2198
		...590/540	0150-2196	...690/640	0150-2197	...790/740	0150-2198	...890/840	0150-2199	...890/840	0150-2199
		...690/640	0150-2197	...790/740	0150-2198	...890/840	0150-2199	...990/940	0150-2203	...990/940	0150-2203
8	H-guide rod	**HL10-15x...**	**Art.-Nr.**	**HL10-15x...**	**Art.-Nr.**	**HL10-15x...**	**Art.-Nr.**	**HL10-15x...**	**Art.-Nr.**	**HL10-15x...**	**Art.-Nr.**
		250	0150-5182	250	0150-5182	250	0150-5182	250	0150-5182	250	0150-5182
		350	0150-5190	350	0150-5190	350	0150-5190	350	0150-5190	350	0150-5190
		450	0150-5191	450	0150-5191	450	0150-5191	450	0150-5191	450	0150-5191
		550	0150-5192	550	0150-5192	550	0150-5192	550	0150-5192	550	0150-5192
		650	0150-5193	650	0150-5193	650	0150-5193	650	0150-5193	650	0150-5193
9	Clamping screw	0230-0150		0230-0150		0230-0150		0230-0150		0230-0150	
10	Guide block bottom	0160-0919		0160-0923		0160-0915		0160-0927		0160-0927	
11	Guide block top	0160-0921		0160-0925		0160-0917		0160-0929		0160-0929	
12	Stator	**PS10-70x80**	**Art.-Nr.**	**PS10-70x160**	**Art.-Nr.**	**PS10-70x240**	**Art.-Nr.**	**PS10-320x80**	**Art.-Nr.**	**PS10-320x80**	**Art.-Nr.**
		..-BL-QJ	0150-1291	..-BL-QJ	0150-1292	..-BL-QJ	0150-1293	..-BL-QJ	0150-1284	..-BL-QJ	0150-1294
		..-BL-QJ-D01	0150-2282	..-BL-QJ-D01	0150-2283	..-BL-QJ-D01	0150-2284	..-BL-QJ-D01	0150-2285	..-BL-QJ-D01	0150-2286
		..-BL-QJ-D02	0150-2360	..-BL-QJ-D02	0150-2361	..-BL-QJ-D02	0150-2362	..-BL-QJ-D02	0150-2343	..-BL-QJ-D02	0150-2363
13	Profile rail guide	0150-5184		0150-5184		0150-5184		0150-5184		0150-5184	
14	Screws (Profile rail guide)	0230-0180		0230-0180		0230-0180		0230-0180		0230-0180	
	Accessories										
15	Fan Set	0150-5051		0150-5051		0150-5051		0150-5051		0150-5051	
16	Sliding Block	0150-2559		0150-2559		0150-2559		0150-2559		0150-2559	

LINEAR GUIDES STAINLESS STEEL

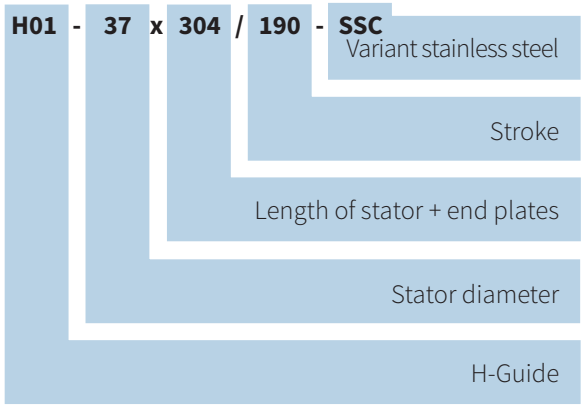
- Bearing external forces, torque and bending moments
- Turning resistance
- Made of stainless steel (1.4404 / AISI 316)
- Hardened stainless steel guide shafts
- Sliding bearing with FDA approval
- No seals; connections are welded
- Tapered surfaces
- Motor inside is completely flushable

LINEAR GUIDES STAINLESS STEEL

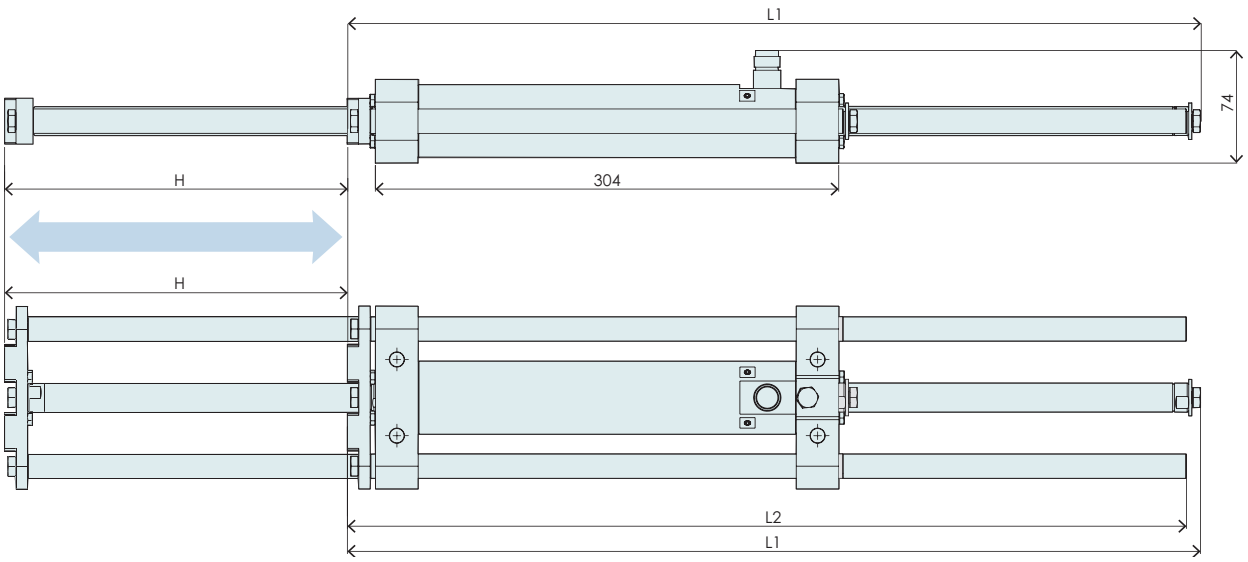


1. Mounting plate with counter bore for precise load mounting
2. Hardened or stainless steel shafts for precise positioning and quiet operation
3. Guide block for assembly of the stator and to the respective application.
4. Stator of stainless steel motor with integrated bearings, temperature and position sensors
5. Channel for flushing the motor
6. Linear motor slider, guarantees maximum force and precise positioning.
7. Centering holes for the uncomplicated and precise mounting of the linear module
8. Plastic plain bearings for special applications in the food- and medical field

Designation Linear Guides H01 Stainless Steel:



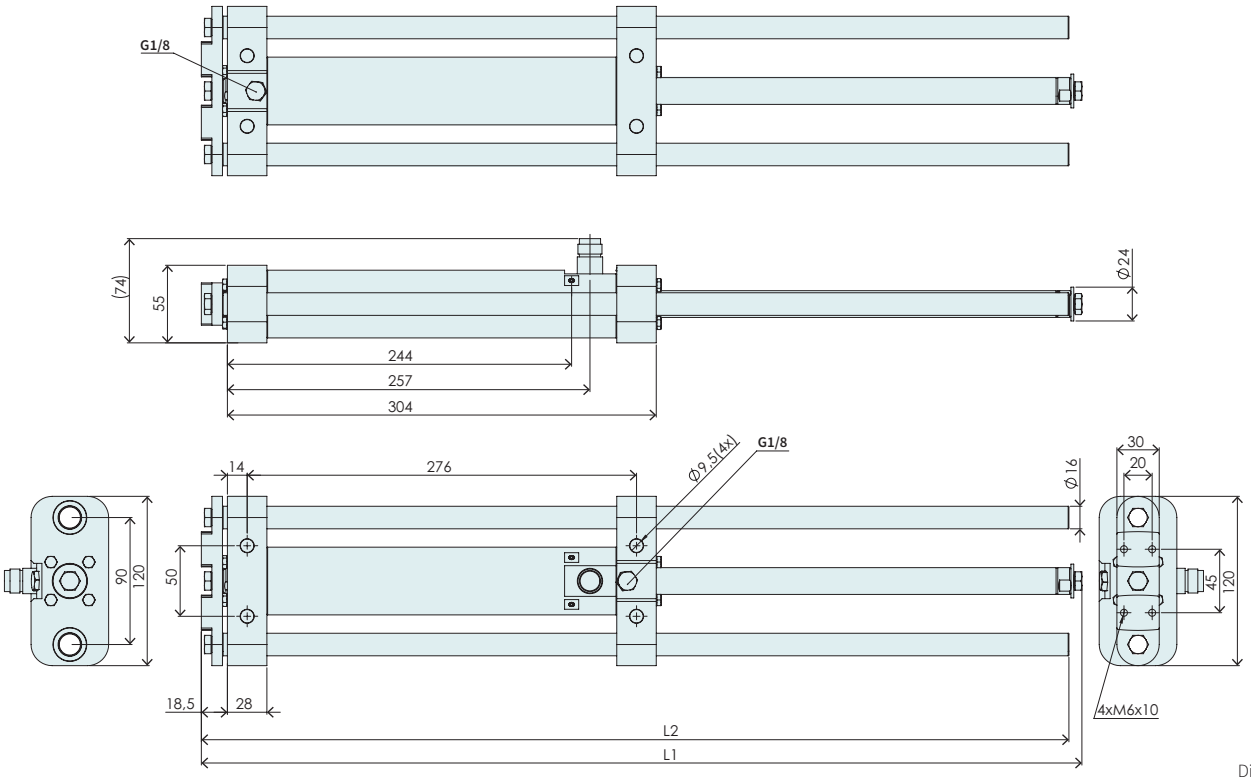
LINEAR MODULE HM01-37x120-SSC



Linear Module	Bearing type	Stroke H [mm (inch)]		Moving Parts L1 [mm (inch)]		Moving Parts L2 [mm (inch)]		Moving Mass [1] [g (lb)]		Total Weight [g (lb)]	
HM01-37x120/85	Plain Bushings	85	(3.35)	420	(16.54)	410	(16.15)	2240	(4.95)	6440	(14.23)
HM01-37x120/190	Plain Bushings	190	(7.48)	525	(20.68)	515	(20.28)	2810	(6.21)	6970	(15.40)
HM01-37x120/290	Plain Bushings	290	(11.42)	625	(24.62)	615	(24.22)	3350	(7.40)	7500	(16.57)
HM01-37x120/390	Plain Bushings	390	(15.36)	725	(28.55)	715	(28.16)	3880	(8.57)	8020	(17.72)

[1] Mass with moving slider

H-GUIDE H01-37x304-SSC



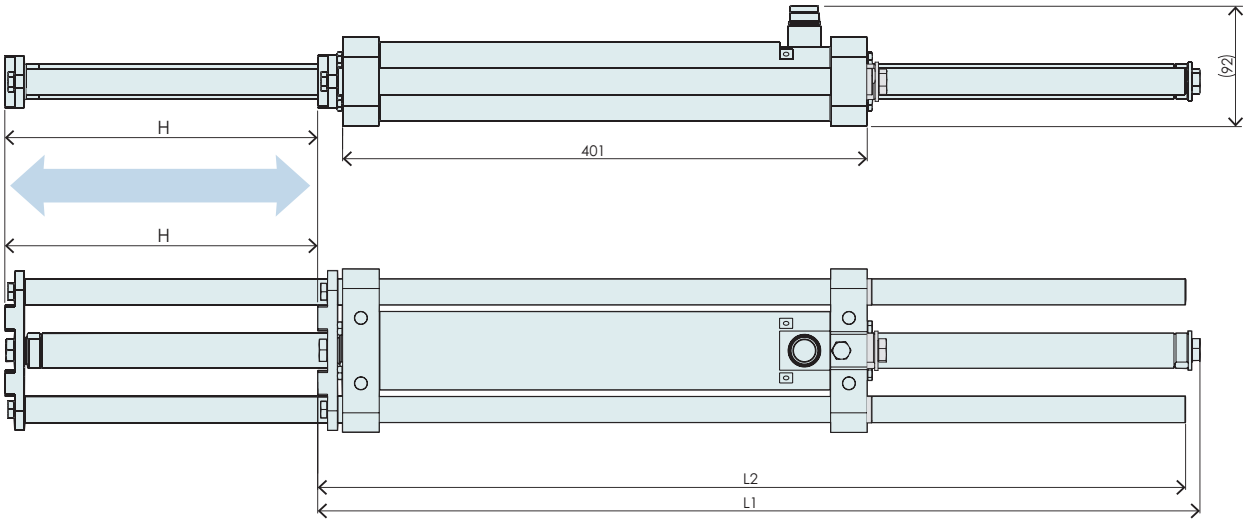
Dimensions in mm

Materials		Guide Block & Front Plate	Guide Shaft	Bearing
H01-37x304/...-SSC	Plain Bushings	Stainless Steel 1.4401 / 316 L	Stainless Steel 1.4435 / 316 L	Techtron HPV

ORDERING INFORMATION

HM01-37x120/85-SSC	**Linear Module 37x120-SSC with 85 mm Stroke**			
	Linear Guide	H01-37x304/85-SSC	H-Guide for PS01-37x120F-HP-SSC, Stroke max 85 mm	0150-5271
	Stator	PS01-37x120F-HP-SSC-R	Stator Stainless Steel IP69K	0150-1282
		PS01-37x120F-HP-SSC-R-FC	Stator Stainless Steel IP69K, FC	0150-1283
	Slider	PL01-19x395/320	Slider 'high clearance'	0150-1452
HM01-37x120/190-SSC	**Linear Module 37x120-SSC with 190 mm Stroke**			
	Linear Guide	H01-37x304/190-SSC	H-Guide for PS01-37x120F-HP-SSC, Stroke max 190 mm	0150-5272
	Stator	PS01-37x120F-HP-SSC-R	Stator Stainless Steel IP69K	0150-1282
		PS01-37x120F-HP-SSC-R-FC	Stator Stainless Steel IP69K, FC	0150-1283
	Slider	PL01-19x500/420	Slider 'high clearance'	0150-1455
HM01-37x120/290-SSC	**Linear Module 37x120-SSC with 290 mm Stroke**			
	Linear Guide	H01-37x304/290-SSC	H-Guide for PS01-37x120F-HP-SSC, Stroke max 290 mm	0150-5273
	Stator	PS01-37x120F-HP-SSC-R	Stator Stainless Steel IP69K	0150-1282
		PS01-37x120F-HP-SSC-R-FC	Stator Stainless Steel IP69K, FC	0150-1283
	Slider	PL01-19x600/520	Slider 'high clearance'	0150-1456
HM01-37x120/390-SSC	**Linear Module 37x120-SSC with 390 mm Stroke**			
	Linear Guide	H01-37x304/390-SSC	H-Guide for PS01-37x120F-HP-SSC, Stroke max 390 mm	0150-5274
	Stator	PS01-37x120F-HP-SSC-R	Stator Stainless Steel IP69K	0150-1282
		PS01-37x120F-HP-SSC-R-FC	Stator Stainless Steel IP69K, FC	0150-1283
	Slider	PL01-19x700/620	Slider 'high clearance'	0150-1457

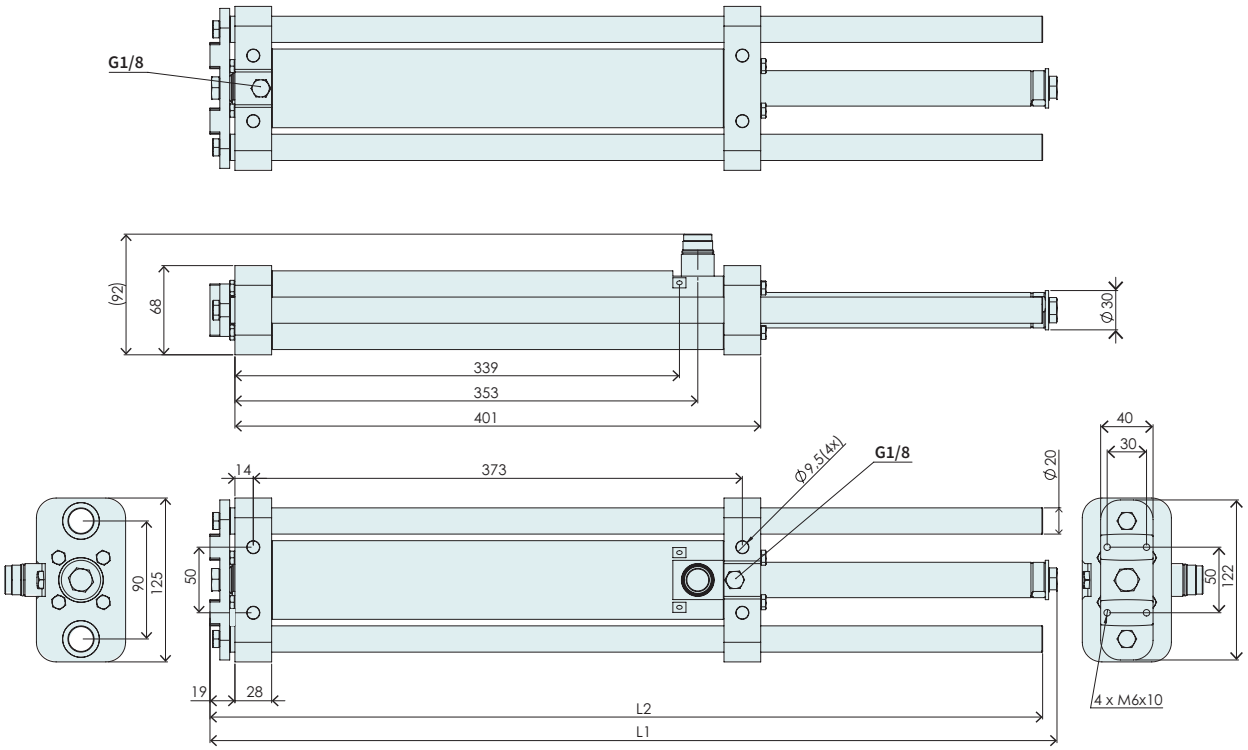
LINEAR MODULE HM01-48x240-SSC



Linear Module	Bearing type	Stroke H [mm (inch)]		Moving Parts L1 [mm (inch)]		Moving Parts L2 [mm (inch)]		Moving Mass [1] [g (lb)]		Total Weight [g (lb)]	
HM01-48x240/210	Plain Bushings	210	(8.27)	646	(25.44)	637	(25.09)	5970	(13.19)	12200	(26.95)
HM01-48x240/300	Plain Bushings	300	(11.82)	736	(29.0)	727	(28.63)	7380	(16.30)	13030	(28.78)
HM01-48x240/390	Plain Bushings	390	(15.36)	826	(32.53)	817	(32.18)	8260	(18.25)	13860	(30.62)
HM01-48x240/510	Plain Bushings	510	(20.09)	946	(37.26)	937	(36.90)	9520	(21.03)	14980	(33.09)

[1] Mass with moving slider

H-GUIDE H01-48x401-SSC

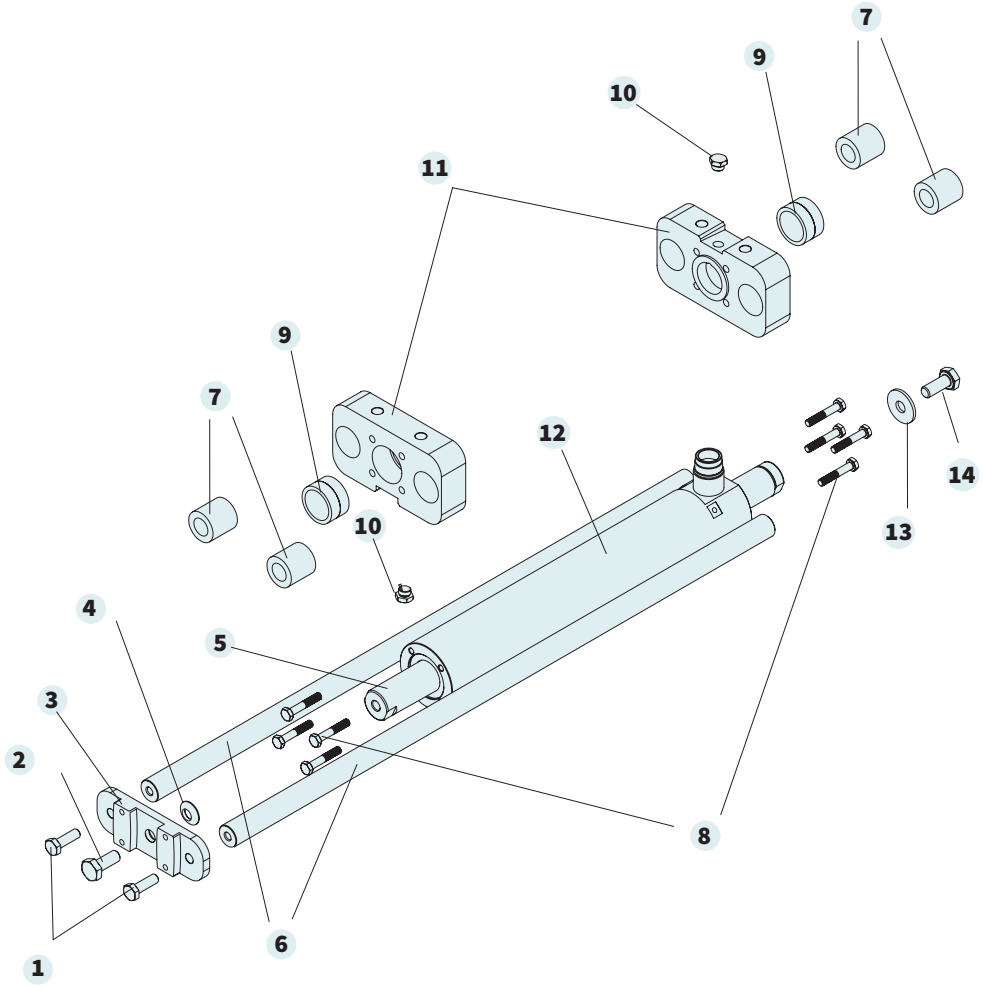


Dimensions in mm

Materials		Guide Block & Front Plate	Guide Shaft	Bearing
H01-48x401/...-SSC	Plain Bushings	Stainless Steel 1.4401 / 316 L	Stainless Steel 1.4435 / 316 L	Techtron HPV

ORDERING INFORMATION

HM01-48x240/210-SSC	**Linear Module 48x240-SSC with 210 mm Stroke**			
	Linear Guide	H01-48x401/210-SSC	H-Guide for PS01-48x240F-HP-SSC, Stroke max.210 mm	0150-5280
	Stator	PS01-48x240F-SSC-C	Stator Stainless Steel IP69K	0150-1267
		PS01-48x240F-SSC-C-FC	Stator Stainless Steel IP69K, FC	0150-1268
	Slider	PL01-27x620/540	Slider 'high clearance'	0150-1470
HM01-48x240/300-SSC	**Linear Module 48x240-SSC with 300 mm Stroke**			
	Linear Guide	H01-48x401/300-SSC	H-Guide for PS01-48x240F-HP-SSC, Stroke max.300 mm	0150-5281
	Stator	PS01-48x240F-SSC-C	Stator Stainless Steel IP69K	0150-1267
		PS01-48x240F-SSC-C-FC	Stator Stainless Steel IP69K, FC	0150-1268
	Slider	PL01-27x710/630	Slider 'high clearance'	0150-1471
HM01-48x240/390-SSC	**Linear Module 48x240-SSC with 390 mm Stroke**			
	Linear Guide	H01-48x401/390-SSC	H-Guide for PS01-48x240F-HP-SSC, Stroke max.390 mm	0150-5282
	Stator	PS01-48x240F-SSC-C	Stator Stainless Steel IP69K	0150-1267
		PS01-48x240F-SSC-C-FC	Stator Stainless Steel IP69K, FC	0150-1268
	Slider	PL01-27x800/720	Slider 'high clearance'	0150-1472
HM01-48x240/510-SSC	**Linear Module 48x240-SSC with 510 mm Stroke**			
	Linear Guide	H01-48x401/510-SSC	H-Guide for PS01-48x240F-HP-SSC, Stroke max.510 mm	0150-5283
	Stator	PS01-48x240F-SSC-C	Stator Stainless Steel IP69K	0150-1267
		PS01-48x240F-SSC-C-FC	Stator Stainless Steel IP69K, FC	0150-1268
	Slider	PL01-27x920/840	Slider 'high clearance'	0150-1447



PARTS LIST					
	Linear Guide	**H01-37x304-SSC**		**H01-48x401-SSC**	
1	Shaft screw	ISO 4017 M8 x 25 INOX A4		ISO 4017 M8 x 25 INOX A4	
2	Slider screw (front)	ISO 4017 M8 x 25 INOX A4		ISO 4017 M10 x 25 INOX A4	
3	Front plate	0160-0518		0160-0521	
4	Socket washer	DIN 6319 c / M8 INOX		DIN 6319 c / M10 INOX	
5	Slider	**PL01-19x...**	**Art-Nr.**	**PL01-27x...**	**Art-Nr.**
		500/420	0150-1455	620/540	0150-1470
		600/520	0150-1456	710/630	0150-1471
		700/620	0150-1457	800/720	0150-1472
				920/840	0150-1447
6	Stainless steel shaft	**HL01-16x...**	**Art-Nr.**	**HL01-20x...**	**Art-Nr.**
		500-SSC	0150-5268	620-SSC	0150-5275
		600-SSC	0150-5269	710-SSC	0150-5276
		700-SSC	0150-5270	800-SSC	0150-5277
				920-SSC	**0150-5278**
7	Plain bushing (stainless steel shaft)	Pos. 7 + Pos. 9 0150-5299		Pos. 7 + Pos. 9 0150-5300	
8	Screws	ISO 4017 M5 x 35 INOX A4		ISO 4017 M6 x 35 INOX A4	
9	Plain bushing (slider)	Pos. 7 + Pos. 9 0150-5299		Pos. 7 + Pos. 9 0150-5300	
10	Hexagonal plug	0160-0336		0160-0336	
11	End plate	0160-0515		0160-0520	
12	Stator	**Typ**	**Art-Nr.**	**Typ**	**Art-Nr.**
		PS01-37x120F-HP-SSC-R	0150-1282	PS01-48x240F-SSC-C	0150-1267
		PS01-37x120F-HP-SSC-R-FC	0150-1283	PS01-48x240F-SSC-C-FC	0150-1268
13	Washer	8.4x24/2 INOX A4		10.5x30/2.5 INOX A4	
14	Slider screw (rear)	ISO 4017 M8 x 20 INOX A4		ISO 4017 M10 x 12 INOX A4	

BRIDGE GUIDES B01

- Increased stiffness by endplate
- Use in high-clearance sliders
- Bearing external forces, torque and bending moments
- Turning resistance
- Compatible with pneumatic guides
- Integrated Linear ball bearings or sintered bearings
- Load can be mounted directly to the front plate

BRIDGE GUIDES B01

1. Mounting plate with counter bore for precise load mounting
2. Hardened or stainless steel shafts for precise positioning and quiet operation.
3. Ball bearings or plain bushings, for high load masses and long life
4. Guide block with counter bores for uncomplicated, precise mounting of the Bridge Module.
5. Mechanical end stop (rear)
6. Linear motor stator with integrated bearings, temperature and position sensors. Available with IP67 connector housing or cable exit.
7. Clamping cylinder to secure the stator in the guide block.
8. T-slots in the guide block allow simple mounting of accessories.
9. Linear motor slider, guarantees maximum force and precise positioning.
10. Integrated linear coupling for simple mounting of the slider

Bridge Module BM01
Complete BM01 bridge modules, consisting of a B01 bridge guide and P01 linear motor, are highly dynamic design components. Compact construction and free positioning have significant advantages, especially in textile and packaging machines, assembly and feeding technology, laboratory automation, and special machines and systems.

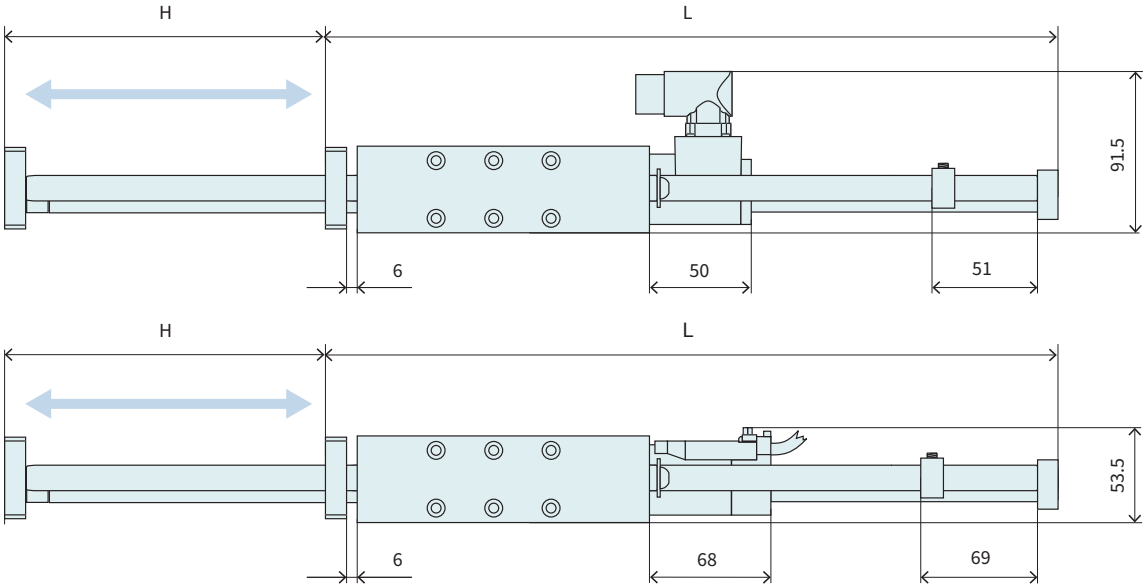
Designation

B01	-	37	x	166	/	160	-	GF	
									Bearing type
									Stroke
									Guide block length
									Stator diameter
									Bridge Guide

Designation

BM01	-	37	x	120	/	60	-	C	
									Connector type
									Stroke
									Active stator length
									Stator diameter
									Module type

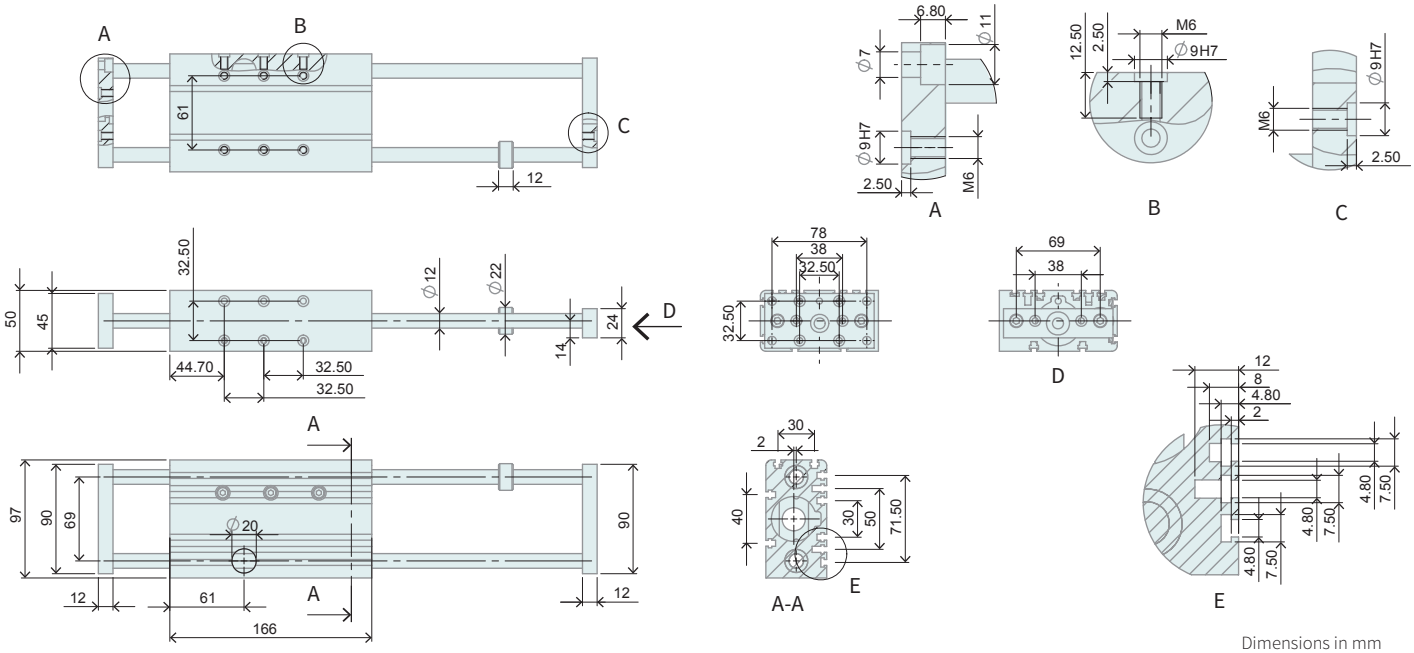
BRIDGE MODULE BM01-37x120



Bridge Module	Bearing type	Stroke H [mm (inch)][1]		Moving Parts L [mm (inch)]		Moving Mass [2] [g (lb)]		Total Weight [g (lb)]	
BM01-37x120/160	Ball bearings	160	(6.30)	410	(16.14)	1450	(3.15)	3500	(7.72)
BM01-37x120/260	Ball bearings	260	(10.24)	510	(20.08)	1820	(4.01)	3900	(8.57)
BM01-37x120/360	Ball bearings	360	(14.17)	610	(24.02)	2210	(4.87)	4300	(9.44)
BM01-37x120/160-GF	Plain Bushings	160	(6.30)	410	(16.14)	1450	(3.15)	3500	(7.72)
BM01-37x120/260-GF	Plain Bushings	260	(10.24)	510	(20.08)	1820	(4.01)	3900	(8.57)
BM01-37x120/360-GF	Plain Bushings	360	(14.17)	610	(24.02)	2210	(4.87)	4300	(9.44)

[1] The stroke is reduced by 18mm when using cable models
[2] Mass with moving slider

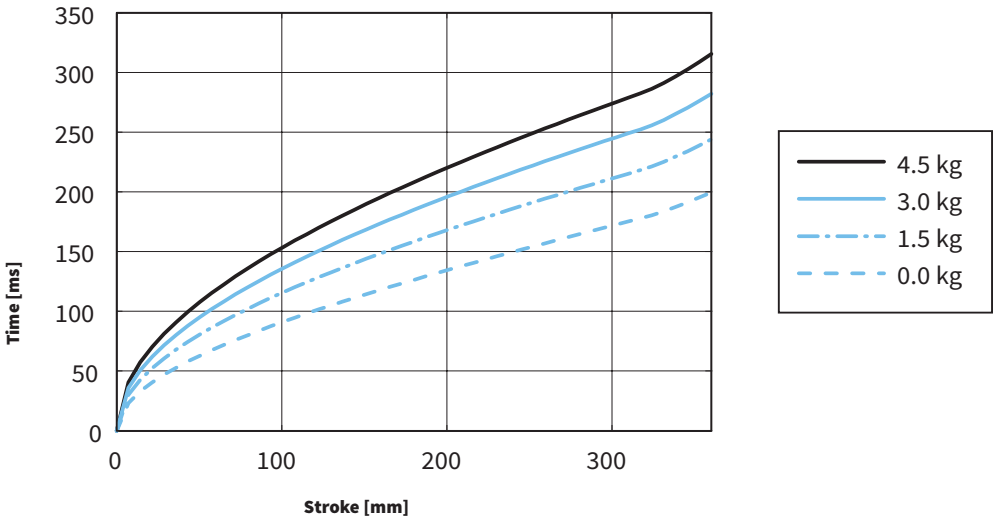
BRIDGE GUIDES B01-37x166



Dimensions in mm

Materials	Guide Block & Front Plate	Guide Shaft	Bearing	Wipers
B01-37x166/… Ball Bearings	Anodized Aluminum	Hardened Steel	Steel Ball Bearings	Nitrile Rubber
B01-37x166/… -GF Plain Bushings	Anodized Aluminum	Stainless Steel 1.4104	Sintered Bronze	Nitrile Rubber

POSITIONING TIMES WITH BM01-37x120



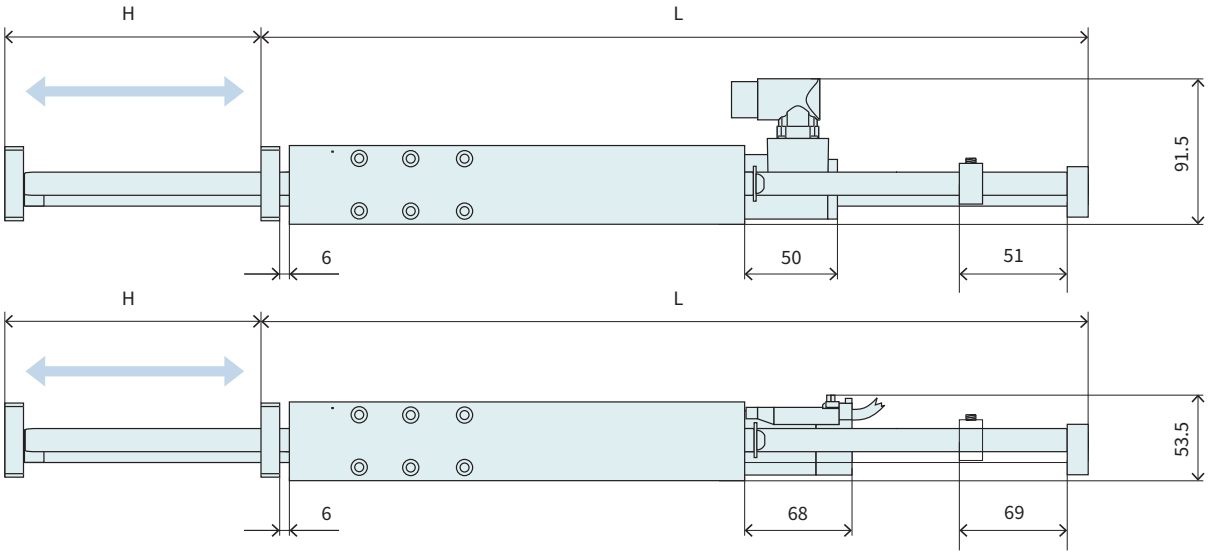
Minimum positioning times for horizontal motions with different load masses, controlled by an E1100-HC Servo Drive.

ORDERING INFORMATION

BM01-37x120/160	**Bridge Module 37x120 with 160 mm Stroke[1]**				
	Bridge Guide	B01-37x166/160	B01 for P01-37x120, 160 mm Stroke, Ball Bearings		0150-5138
		B01-37x166/160-GF	B01 for P01-37x120, 160 mm Stroke, Plain Bushings		0150-5141
	Stator	PS01-37x120-C	Linearmotor Stator, connector type C - IP67		0150-1223
		PS01-37x120-C20	Linearmotor Stator, 0.2m Cable, connector C - IP67		0150-1237
		PS01-37x120	Linearmotor Stator, 1.5m Cable, connector P		0150-1204
	Slider	PL01-19x395/320	High Clearance Slider for B01-37x166/160		0150-1452
BM01-37x120/260	**Bridge Module 37x120 with 260 mm Stroke[1]**				
	Bridge Guide	B01-37x166/260	B01 for P01-37x120, 260 mm Stroke, Ball Bearings		0150-5139
		B01-37x166/260-GF	B01 for P01-37x120, 260 mm Stroke, Plain Bushings		0150-5142
	Stator	PS01-37x120-C	Linearmotor Stator, connector type C - IP67		0150-1223
		PS01-37x120-C20	Linearmotor Stator, 0.2m Cable, connector C - IP67		0150-1237
		PS01-37x120	Linearmotor Stator, 1.5m Cable, connector P		0150-1204
	Slider	PL01-19x500/420	High Clearance Slider for B01-37x166/260		0150-1455
BM01-37x120/360	**Bridge Module 37x120 with 360 mm Stroke[1]**				
	Bridge Guide	B01-37x166/360	B01 for P01-37x120, 360 mm Stroke, Ball Bearings		0150-5140
		B01-37x166/360-GF	B01 for P01-37x120, 360 mm Stroke, Plain Bushings		0150-5143
	Stator	PS01-37x120-C	Linearmotor Stator, connector type C - IP67		0150-1223
		PS01-37x120-C20	Linearmotor Stator, 0.2m Cable, connector C - IP67		0150-1237
		PS01-37x120	Linearmotor Stator, 1.5m Cable, connector P		0150-1204
	Slider	PL01-19x600/520	High Clearance Slider for B01-37x166/360		0150-1456
Accessories					
	Brake	HB01-37	Pneumatic Brake for H01-37 / 600N (4-6 Bar)		0150-5052
	Fan	HV01-37/48	Fan for H01-37 and -48 Linear Guides		0150-5051
	MagSpring	MF01-37/H37	Mounting flange for MagSpring M01-37x…		0250-2307
		MA01-37/H37	Mounting adapter for MagSpring M01-37x…		0250-0117
	Center Sleeve	HC01-09/04	Center Sleeve D9x4 mm		0150-3251
	Wiper	HA01-37/19-F	Wiper for B01-37 guides, front side		0150-5177

[1] The stroke is reduced by 18mm when using cable models

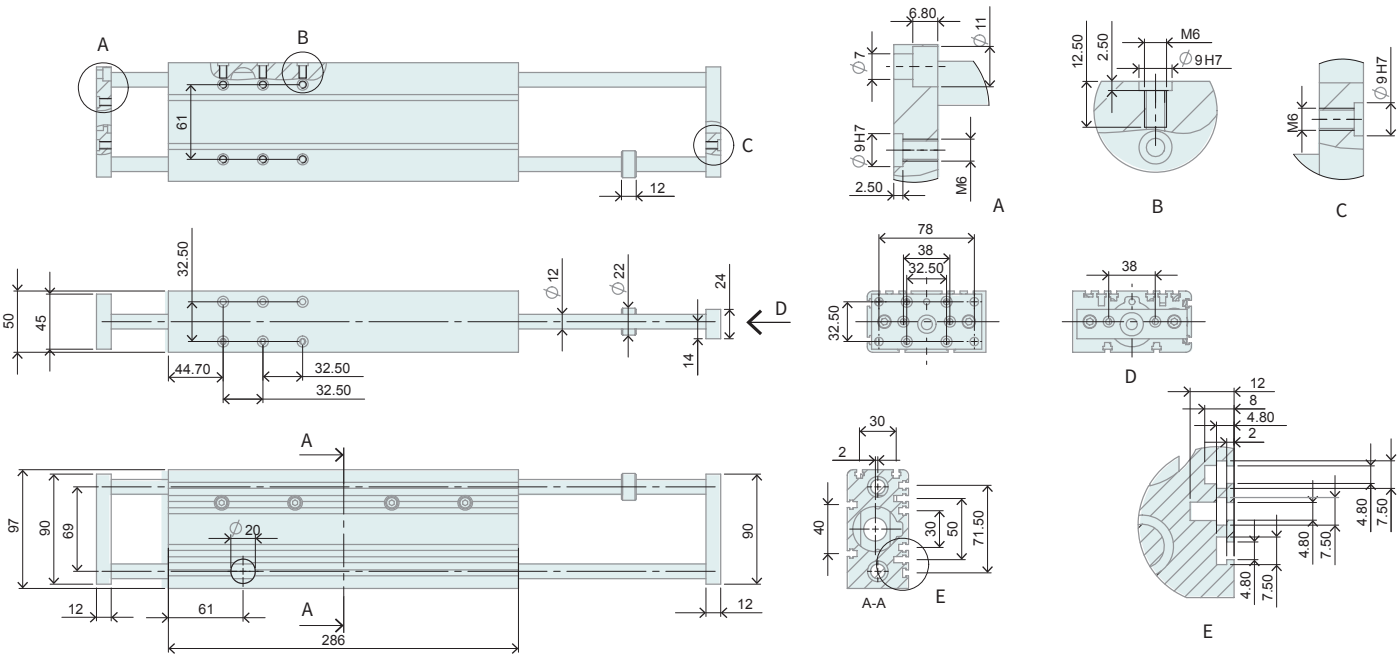
BRIDGE MODULE BM01-37x240



Bridge Module	Bearing type	Stroke H [mm (inch)][1]		Moving Parts L [mm (inch)]		Moving Mass [2] [g (lb)]		Total Weight [g (lb)]	
BM01-37x240/140	Ball bearings	140	(5.51)	510	(20.08)	1820	(4.01)	5500	(12.11)
BM01-37x240/240	Ball bearings	240	(9.45)	610	(24.02)	2210	(4.87)	5900	(12.97)
BM01-37x240/340	Ball bearings	340	(13.39)	710	(27.95)	2600	(5.71)	6300	(13.81)
BM01-37x240/140-GF	Plain Bushings	140	(5.51)	510	(20.08)	1820	(4.01)	5500	(12.11)
BM01-37x240/240-GF	Plain Bushings	240	(9.45)	610	(24.02)	2210	(4.87)	5900	(12.97)
BM01-37x240/340-GF	Plain Bushings	340	(13.39)	710	(27.95)	2600	(5.71)	6300	(13.81)

[1] The stroke is reduced by 18mm when using cable models
[2] Mass with moving slider

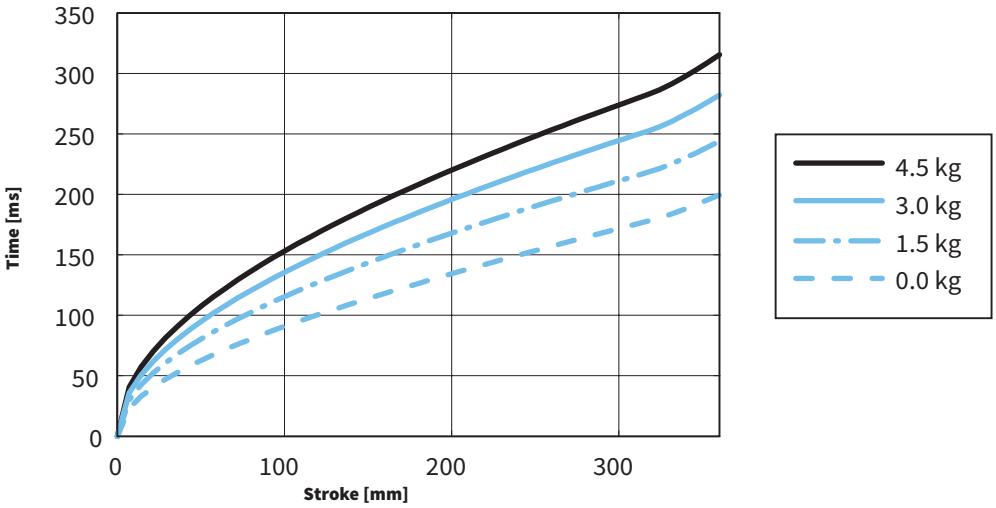
BRIDGE GUIDES B01-37x286



Dimensions in mm

Materials	Guide Block & Front Plate	Guide Shaft	Bearing	Wipers
B01-37x286/… Ball Bearings	Anodized Aluminum	Hardened Steel	Steel Ball Bearings	Nitrile Rubber
B01-37x286/…-GF Plain Bushings	Anodized Aluminum	Stainless Steel 1.4104	Sintered Bronze	Nitrile Rubber

POSITIONING TIMES WITH BM01-37x240



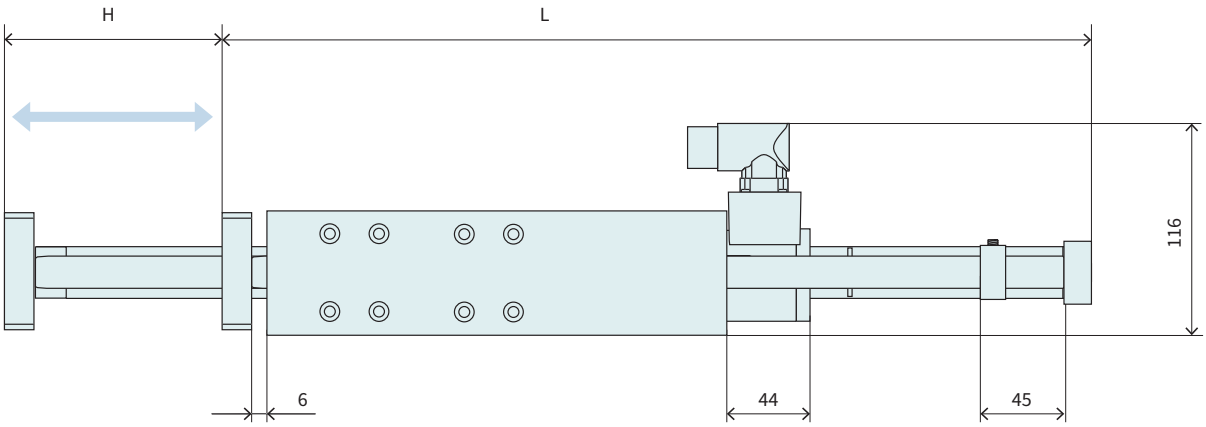
Minimum positioning times for horizontal motions with different load masses, controlled by an E1100-HC Servo Drive.

ORDERING INFORMATION

BM01-37x240/140	**Bridge Module 37x240 with 140 mm Stroke[1]**				
	Bridge Guide	B01-37x286/140	B01 for P01-37x240, 140 mm Stroke, Ball Bearings		0150-5144
		B01-37x286/140-GF	B01 for P01-37x240, 140 mm Stroke, Plain Bushings		0150-5147
	Stator	PS01-37x240-C	Linear motor Stator, connector type C - IP67		0150-1224
		PS01-37x240F-C	Linear motor Stator, connector type C - IP67	F-Wicklung	0150-1225
		PS01-37x240-C20	Linear motor Stator, 0.2m Cable, connector C - IP67		0150-1238
		PS01-37x240F-C20	Linear motor Stator, 0.2m Cable, connector C - IP67	F-Wicklung	0150-1239
		PS01-37x240	Linear motor Stator, 1.5m Cable, connector P		0150-1203
	Slider	PL01-19x500/420	High clearance Slider B01-37x286/140		0150-1455
BM01-37x240/240	**Bridge Module 37x240 with 240 mm Stroke[1]**				
	Bridge Guide	B01-37x286/240	B01 for P01-37x240, 240 mm Stroke, Ball Bearings		0150-5145
		B01-37x286/240-GF	B01 for P01-37x240, 240 mm Stroke, Plain Bushings		0150-5148
	Stator	PS01-37x240-C	Linear motor Stator, connector type C - IP67		0150-1224
		PS01-37x240F-C	Linear motor Stator, connector type C - IP67	F-Wicklung	0150-1225
		PS01-37x240-C20	Linear motor Stator, 0.2m Cable, connector C - IP67		0150-1238
		PS01-37x240F-C20	Linear motor Stator, 0.2m Cable, connector C - IP67	F-Wicklung	0150-1239
		PS01-37x240	Linear motor Stator, 1.5m Cable, connector P		0150-1203
	Slider	PL01-19x600/520	High clearance Slider B01-37x286/240		0150-1456
BM01-37x240/340	**Bridge Module 37x240 with 340 mm Stroke[1]**				
	Bridge Guide	B01-37x286/340	B01 for P01-37x240, 340 mm Stroke, Ball Bearings		0150-5146
		B01-37x286/340-GF	B01 for P01-37x240, 340 mm Stroke, Plain Bushings		0150-5149
	Stator	PS01-37x240-C	Linear motor Stator, connector type C - IP67		0150-1224
		PS01-37x240F-C	Linear motor Stator, connector type C - IP67	F-Wicklung	0150-1225
		PS01-37x240-C20	Linear motor Stator, 0.2m Cable, connector C - IP67		0150-1238
		PS01-37x240F-C20	Linear motor Stator, 0.2m Cable, connector C - IP67	F-Wicklung	0150-1239
		PS01-37x240	Linear motor Stator, 1.5m Cable, connector P		0150-1203
	Slider	PL01-19x700/620	High clearance Slider for B01-37x286/340		0150-1457
Accessories					
	Brake	HB01-37	Pneumatische Bremse for H01-37 / 600N (4-6 Bar)		0150-5052
	Fan	HV01-37/48	Fan for H01-37 und -48 Linear Guides		0150-5051
	MagSpring	MF01-37/H37	Mounting flange for MagSpring M01-37x…		0250-2307
		MA01-37/H37	Mounting adapter for MagSpring M01-37x…		0250-0117
	Center Sleeve	HC01-09/04	Center Sleeve D9x4 mm		0150-3251
	Wiper	HA01-37/19-F	Wiper for B01-37 guides, front side		0150-5177

[1] The stroke is reduced by 18mm when using cable models

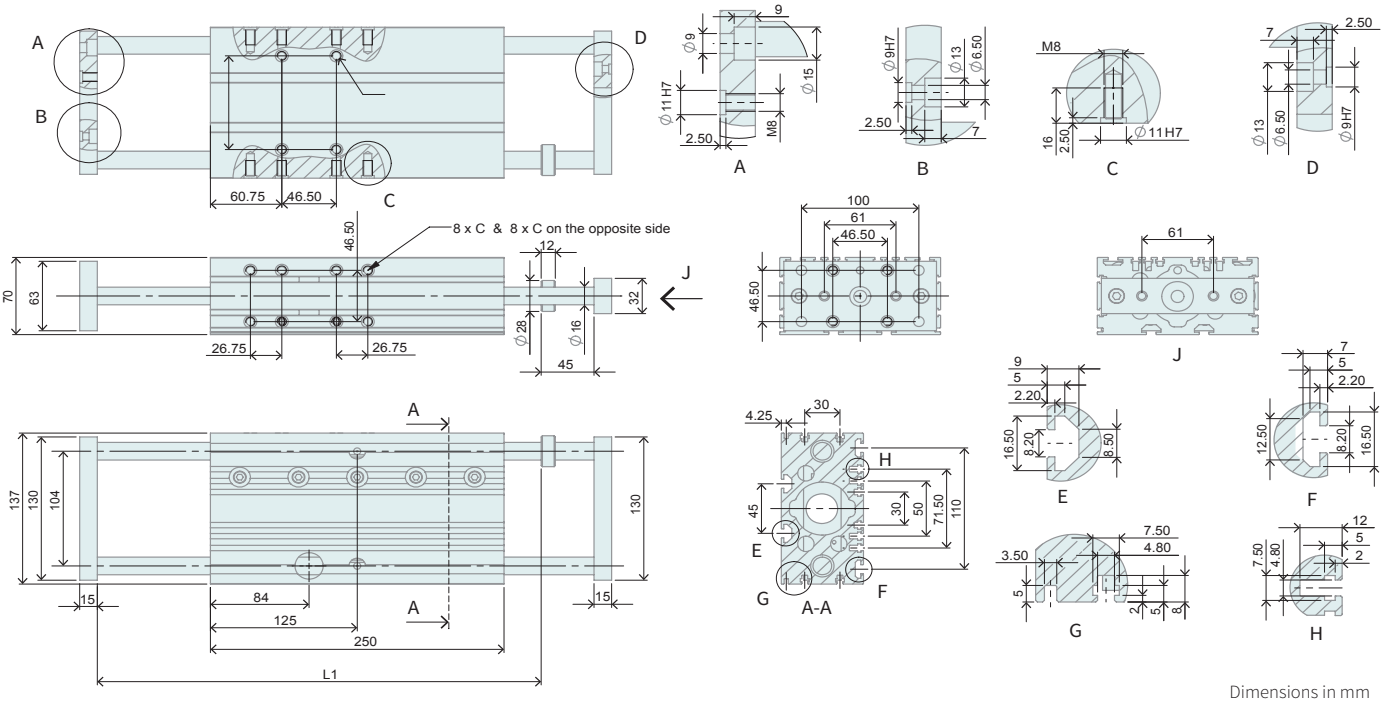
BRIDGE MODULE BM01-48x240



Bridge Module	Bearing type	Stroke H [mm (inch)][1]		Moving Parts L [mm (inch)]		Moving Mass [1] [g (lb)]		Total Weight [g (lb)]	
BM01-48x240/90	Ball bearings	90	(3.54)	423	(16.65)	3350	(7.39)	8900	(19.58)
BM01-48x240/180	Ball bearings	180	(7.09)	513	(20.20)	4020	(8.86)	9600	(21.05)
BM01-48x240/300	Ball bearings	300	(11.81)	633	(24.92)	4950	(10.82)	10500	(23.02)
BM01-48x240/390	Ball bearings	390	(15.35)	723	(28.46)	5600	(12.32)	11200	(24.51)
BM01-48x240/90-GF	Plain Bushings	90	(3.54)	423	(16.65)	3350	(7.39)	8900	(19.58)
BM01-48x240/180-GF	Plain Bushings	180	(7.09)	513	(20.20)	4020	(8.86)	9600	(21.05)
BM01-48x240/300-GF	Plain Bushings	300	(11.81)	633	(24.92)	4950	(10.82)	10500	(23.02)
BM01-48x240/390-GF	Plain Bushings	390	(15.35)	723	(28.46)	5600	(12.32)	11200	(24.51)

[1] Mass with moving slider

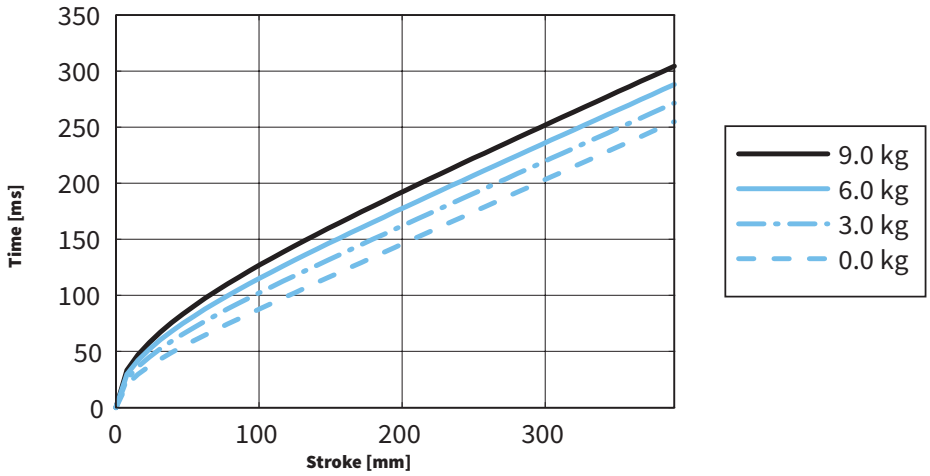
BRIDGE GUIDES B01-48x250



Dimensions in mm

Materials	Guide Block & Front Plate	Guide Shaft	Bearing	Wipers
B01-48x250/… Ball Bearings	Anodized Aluminum	Hardened Steel	Steel	Nitrile Rubber
B01-48x250/…-GF Plain Bushings	Anodized Aluminum	Stainless Steel 1.4104	Sintered Bronze	Nitrile Rubber

POSITIONING TIMES WITH BM01-48x240

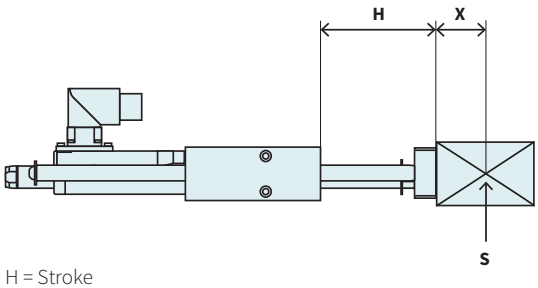


Minimum positioning times for horizontal motions with different load masses, controlled by an E1100-HC Servo Drive.

ORDERING INFORMATION

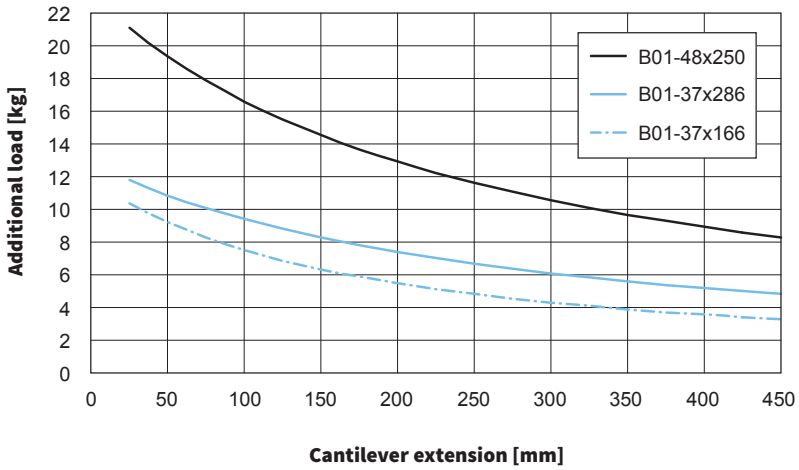
BM01-48x240/90	**Bridge Module 48x240 with 90 mm Stroke**				
	Bridge Guide	B01-48x250/90	B01 for P01-48x240, 90 mm Stroke, Ball Bearings		0150-5150
		B01-48x250/90-GF	B01 for P01-48x240, 90 mm Stroke, Plain Bushings		0150-5154
	Stator	PS01-48x240-C	Linearmotor Stator, connector type C - IP67		0150-1219
		PS01-48x240F-C	Linearmotor Stator, connector type C - IP67	Fast Winding	0150-1220
	Slider	PL01-27x410/330	High clearance Slider for B01-48x250/90		0150-1468
BM01-48x240/180	**Bridge Module 48x240 with 180 mm Stroke**				
	Bridge Guide	B01-48x250/180	B01 for P01-48x240, 180 mm Stroke, Ball Bearings		0150-5151
		B01-48x250/180-GF	B01 for P01-48x240, 180 mm Stroke, Plain Bushings		0150-5155
	Stator	PS01-48x240-C	Linearmotor Stator, connector type C - IP67		0150-1219
		PS01-48x240F-C	Linearmotor Stator, connector type C - IP67	Fast Winding	0150-1220
	Slider	PL01-27x500/420	High clearance Slider for B01-48x250/180		0150-1469
BM01-48x240/300	**Bridge Module 48x240 with 300 mm Stroke**				
	Bridge Guide	B01-48x250/300	B01 for P01-48x240, 300 mm Stroke, Ball Bearings		0150-5152
		B01-48x250/300-GF	B01 for P01-48x240, 300 mm Stroke, Plain Bushings		0150-5156
	Stator	PS01-48x240-C	Linearmotor Stator, connector type C - IP67		0150-1219
		PS01-48x240F-C	Linearmotor Stator, connector type C - IP67	Fast Winding	0150-1220
	Slider	PL01-27x620/540	High clearance Slider for B01-48x250/300		0150-1470
BM01-48x240/390	**Bridge Module 48x240 with 390 mm Stroke**				
	Bridge Guide	B01-48x250/390	B01 for P01-48x240, 390 mm Stroke, Ball Bearings		0150-5153
		B01-48x250/390-GF	B01 for P01-48x240, 390 mm Stroke, Plain Bushings		0150-5157
	Stator	PS01-48x240-C	Linearmotor Stator, connector type C - IP67		0150-1219
		PS01-48x240F-C	Linearmotor Stator, connector type C - IP67	Fast Winding	0150-1220
	Slider	PL01-27x710/630	High clearance Slider for B01-48x250/390		0150-1471
Accessories					
	Brake	HB01-48	Pneumatic Brake for B01-48 / 1000N (4-6 Bar)		0150-5098
	Fan	HV01-37/48	Fan for B01-37 und -48 B-Führungen		0150-5051
	MagSpring	MF01-37/H37	Mounting flange for MagSpring M01-37x…		0250-2307
		MA01-37/H48	Mounting adapter for MagSpring M01-37x…		0250-0118
	Sliding Block	PFN01-8/M6	Sliding Block 8 mm with M6 Thread		0150-3245
	Center Sleeve	HC01-11/05	Center Sleeve D11x5 mm		0150-3252
	Wiper	HA01-48/27-F	Wiper for B01-48 guides, front side		0150-5178

MAXIMUM LOAD

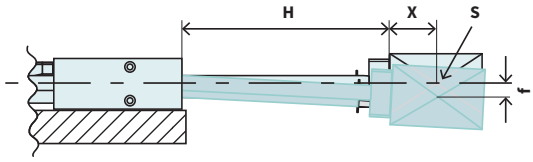


H = Stroke
X = Distance to center of gravity
S = Center of gravity
Cantilever extension = H + X

The maximum load depends on the cantilever extension (maximum stroke A plus distance between the center of gravity of the working load and the mounting surface).



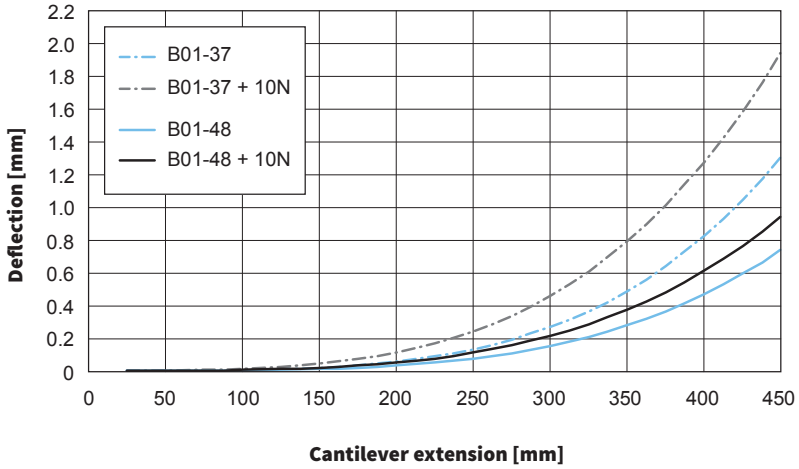
VERTICAL DEFLECTION



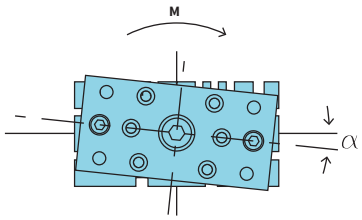
H = Stroke
S = Center of gravity
X = Distance to center of gravity
f = Deflection of theoretical axis

Total deflection =
static deflection + deflection under load
Deflection measured at standstill, with 10N / 2.25lbf Load.

Deflection for smaller or larger load masses can be linearly extrapolated using the data for 10 N / 2.25 lbf.

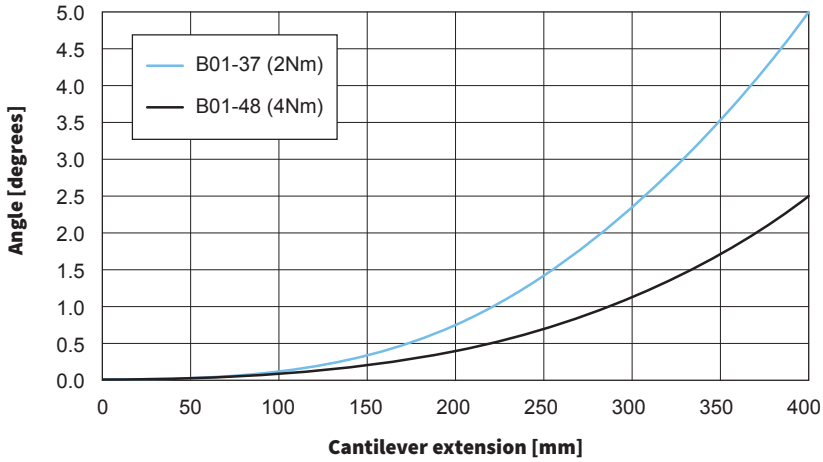


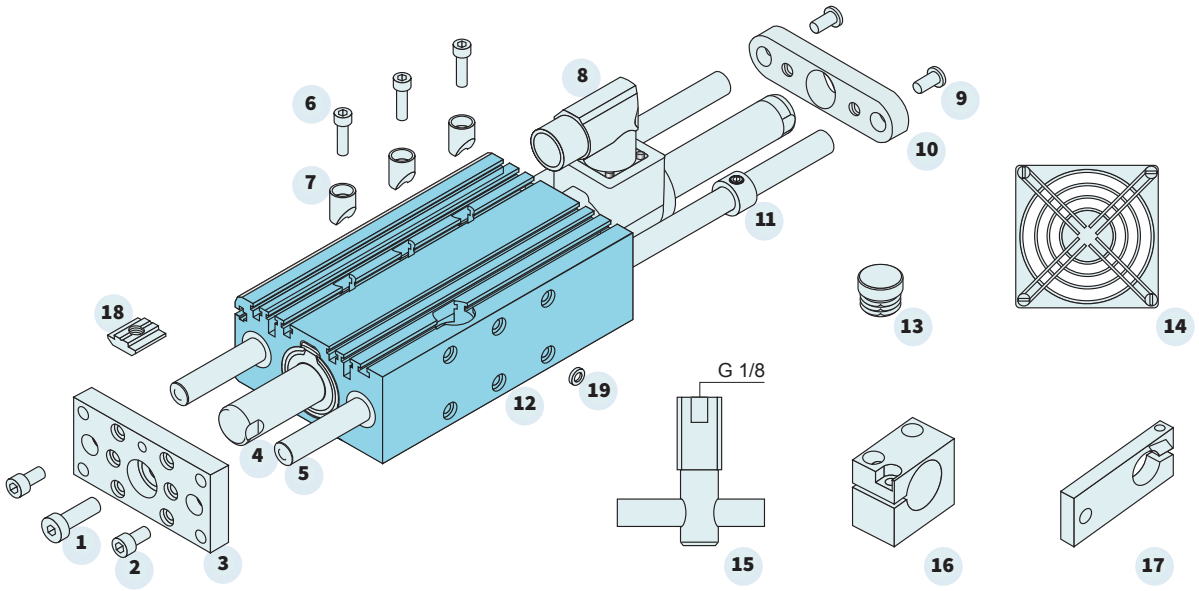
ANGULAR DEFLECTION



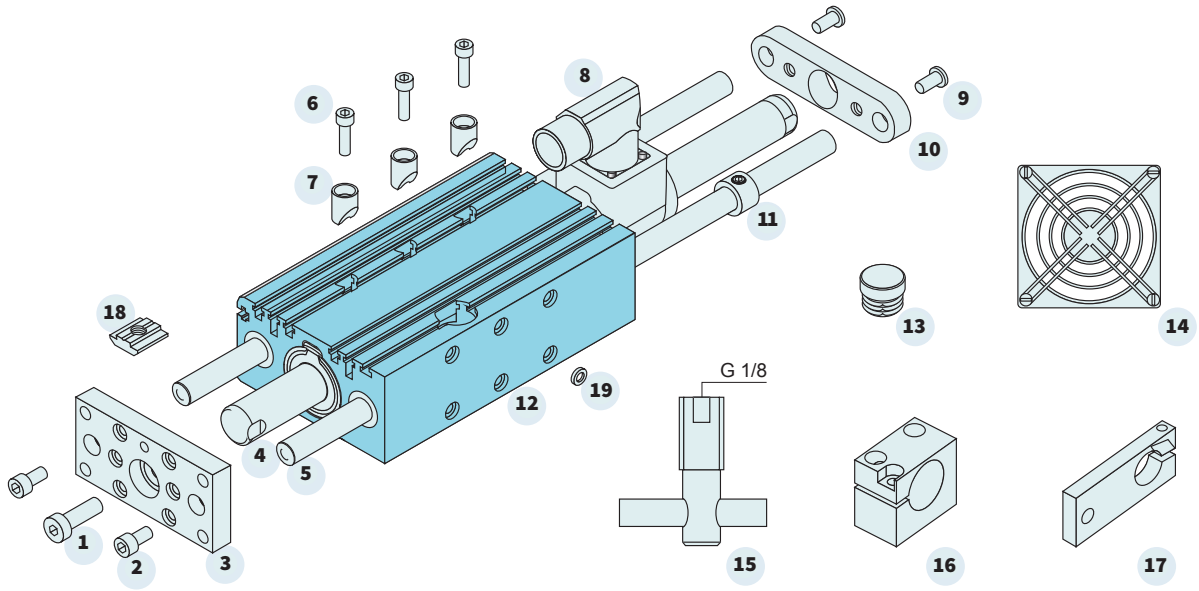
Angular deflection (twist) of the mounting plate depends on the torque load to be absorbed and the cantilever extension.

The angular deflection for smaller or larger torques can be linearly extrapolated from the deflection in the diagram.





PARTS LIST							
	Bridge Guide	**B01-37x166**		**B01-37x286**		**B01-48x250**	
1	Slider screw	DIN7984 M8x25		DIN7984 M8x25		DIN7984 M10x35	
2	Shaft screw	ISO 4762 M6x12		ISO 4762 M6x12		ISO 4762 M8x20	
3	Front plate	0150-5112		0150-5112		0150-5110	
4	Slider	**PL01-19x...**	**Art-Nr.**	**PL01-19x...**	**Art-Nr.**	**PL01-27x...**	**Art-Nr.**
		395/320	0150-1452	500/420	0150-1455	410/330	0150-1468
		500/420	0150-1455	600/520	0150-1456	500/420	0150-1469
		600/520	0150-1456	700/620	0150-1457	620/540	0150-1470
						710/630	0150-1471
5	Hardened steel shafts for ball bearings	**HL01-12x...**	**Art-Nr.**	**HL01-12x...**	**Art-Nr.**	**HL01-16x...**	**Art-Nr.**
		390	0150-5114	490	0150-5115	397	0150-5118
		490	0150-5115	590	0150-5116	487	0150-5119
		590	0150-5116	690	0150-5117	607	0150-5120
						697	0150-5121
	Stainless steel shafts for plain bushings GF	390-GF	0150-5122	490-GF	0150-5123	397-GF	0150-5126
		490-GF	0150-5123	590-GF	0150-5124	487-GF	0150-5127
		590-GF	0150-5124	690-GF	0150-5125	607-GF	0150-5128
						697-GF	0150-5129
6	Clamping screw	ISO 4762 M5x18		ISO 4762 M5x18		ISO 4762 M6x25	
7	Clamping cylinder	0150-5053		0150-5053		0150-5086	
8	Stator	**Typ**	**Art-Nr.**	**Typ**	**Art-Nr.**	**Typ**	**Art-Nr.**
		PS01-37x120-C	0150-1223	PS01-37x240-C	0150-1224	PS01-48x240-C	0150-1219
		PS01-37x120-C20	0150-1237	PS01-37x240F-C	0150-1225	PS01-48x240F-C	0150-1220
		PS01-37x120	0150-1204	PS01-37x240-C20	0150-1238		
				PS01-37x240F-C20	0150-1239		
				PS01-37x240	0150-1203		



9	Shaft screw	ISO 4762 M6x12	ISO 4762 M6x12	ISO 4762 M8x20
10	Endplatte	0150-5113	0150-5113	0150-5111
11	Rear end stop	0150-5136	0150-5136	0150-5137
12	Guide block with ball bearings	0150-5002	0150-5003	0150-5088
	Guide block with plain bushings GF	0150-5062	0150-5063	0150-5089
13	Brake hole cap	HDPE 20mm	HDPE 20mm	HDPE 24mm
	Fan			
14	Set	0150-5051	0150-5051	0150-5051
	Brake			
15	Pneumatic brake	0150-5052	0150-5052	0150-5098
	Magspring			
16	Flange	0250-2307	0250-2307	0250-2307
17	Adapter	0250-0117	0250-0117	0250-0118
	Accessories			
18	Sliding Block			0150-3245
19	Center Sleeve	0150-3251	0150-3251	0150-3252
20	Wipers	0150-5177	0150-5177	0150-5178

ACCESSORIES

An extensive array of accessories, tailored to LinMot linear motors and compatible with the Servo Drives, rounds out the LinMot Drive Systems product range.

LinMot's array of accessories allows quick, simple implementation and startup of various tasks. The original motor accessories, specially designed for LinMot, also ensure reliable and fault-free operation of the linear motors.

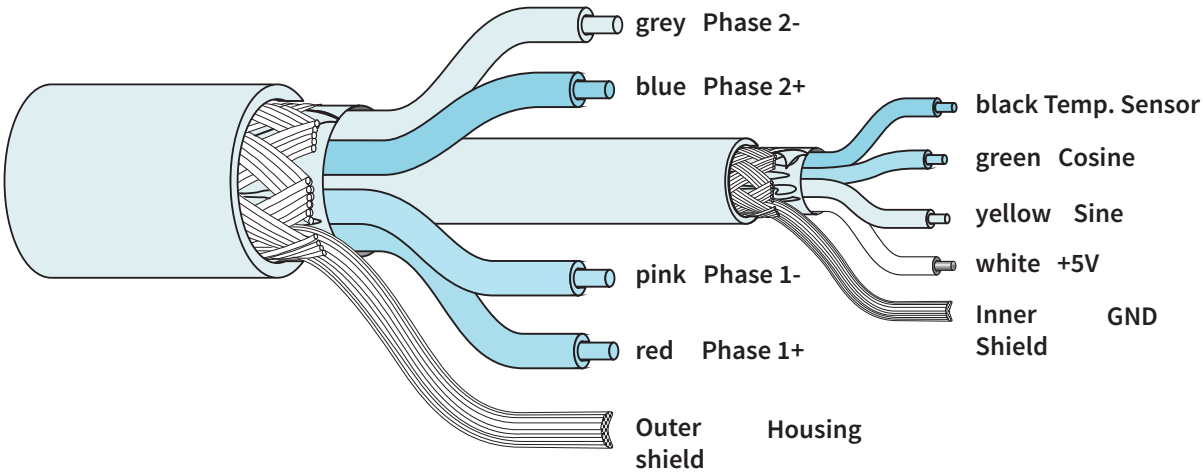
Linear motor with flange and fan installed

Linear-Rotary unit with DUO MagSpring installed

MOTOR CABLES FOR STANDARD AND LINEAR ROTARY MOTORS

- Single-cable principle to feed signals and motor phases
- Standard cables for fixed installation
- High-flex cables for cable chain applications
- Robot cables for torsional loads
- Prefabricated motor cables

For type P0x and PR linear motors, one single cable is sufficient to connect the motor and drive. This motor cable contains the motor phases and sensor signals for the position measurement integrated in the motor. The double shielding in the cable (see illustration) ensures that the linear motor can operate without interference with a cable up to 30 m long.



Single-cable concept for type P0x linear motors and PR01 motors

TYPES OF MOTOR CABLES

The abbreviations K, KS, KR, and KF specify the available types of the cables.

The standard type K motor cable is suitable for stationary cable routing. It is used wherever the motor cable is fixed and not subject to any motion.

The high-flex trailing chain KS motor cable is suitable for applications where the motor cable moves, where the cable is routed through a cable carrier and undergoes a roll-up motion.

If the motor cable is subject to a torsional motion, then the special type KR robot cable should be used. In order to protect the robot cable from mechanical damage, it should be routed through a suitable cable tube.

A ribbon cable is with the designation KF is available for the P02-23Sx80 short motor. The ribbon cable can be subjected to roll-up motion, just like the high-flex cable.

MOTOR CABLE BY LENGTH

LinMot motor cables are available by length in versions K, KS, and KR. The cable can be cut to the desired length or ordered in large quantities on rolls.

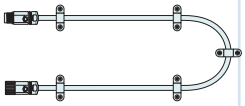
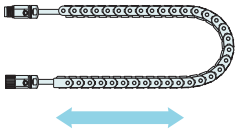
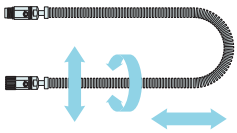
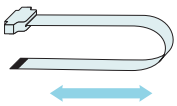
LinMot carries all of the motor plugs for customers to assemble their own motor cables. The individual connections for customer-assembled motor cables should be checked carefully for short circuits and correct configuration prior to commissioning. The insulation strength between individual conductors must be tested with a test voltage of 1500VDC.

PREFABRICATED MOTOR CABLES

Fully assembled motor cables can be shipped in lengths up 30 m. Order the motor cable in the desired length together with the matching motor plugs (assembled). Longer cables can also be assembled after consultation with LinMot.

Prefabricated motor cables with the most commonly used plug combinations can be shipped from stock in standard lengths.

LinMot motor cables are produced using only crimped contacts and are tested under high voltage prior to shipment.

Cables for stators P01 / P02 / P03 / P04 / PR01									
	Standard Motor Cable		Trailing Chain Cable			Robot Cable			Flat Cable
									
Cable type	**K05-04/05**	**K15-04/05**	**KS03-09**	**KS05-04/05**	**KS10-04/05**	**KR03-09**	**KR05-04/05**	**KR10-04/05**	**KF02-D15/F-...**
Wire cross-section Motor phases	0.5 mm² (AWG20)	1.5 mm² (AWG16)	0.34 mm² (AWG22)	0.5 mm² (AWG20)	1.0 mm² (AWG18)	0.34 mm² (AWG22)	0.5 mm² (AWG20)	1.0 mm² (AWG18)	(-)
Wire cross-section Sensor signal	0.14 mm² (AWG26)		0.14 mm² (AWG26)			0.14 mm² (AWG26)			(-)
Material Wire insulation	TPE-U		TPE-E			TPE-E			Polyester
Material Cable sheath	PUR		PUR			PUR			(-)
Colour Cable sheath	black		black			black			white
Cable cross section	8.2 mm (0.31 in)	11.2 mm (0.44 in)	6.7 mm (0.26 in)	9.5 mm (0.38 in)	10.8 mm (0.42 in)	6.7 mm (0.26 in)	9.7 mm (0.38 in)	10.9 mm (0.43 in)	17.8x0.2 mm (0.7x0.008 in)
Weight	83 kg/km (295 lb/mi)	180 kg/km (639 lb/mi)	64 kg/km (227 lb/mi)	113 kg/km (401 lb/mi)	139 kg/km (493 lb/mi)	64 kg/km	109 kg/km (387 lb/mi)	136 kg/km (493 lb/mi)	(-)
Approvals	Cable material according to UL		UL / CSA 300V				UL / CSA 300V		(-)
Minimum bending radius static	25 mm (1 in)	50 mm (2 in)	25 mm (1 in)	30 mm (1.2 in)	50 mm (2 in)	25 mm (1 in)	30 mm (1.2 in)	50 mm (2 in)	foldable
Minimum bending radius moving	Not suitable for applications With moving motor cable		50 mm (2 in)	60 mm (2.4 in) no torsion	100 mm (4 in) no torsion	50 mm (2 in) Max. Torsion: ±270° pro 0.5 m	60 mm (2.4 in) Max. Torsion: ±270° per 0.5 m (19.7 in)	100 mm (4 in) Max. Torsion: ±270° per 0.5 m (19.7 in)	25 mm (0.99 in)
Temperature range	-40°...+80°C		-40°...+80°C			-40°...+80°C			-55°...+105°C

TYPE CODE OF MOTOR CABLE FOR STANDARD LINEAR MOTORS

Connector Type (Drive side)
- Y Drives C1100 / C1200
- W Drives B1100 / E1100 / E1200

Cable type
- K Standard
- KS High Flex / Trailing chain
- KR Robot cable

Cabel length
Cable assembled in m

K 05 - W / R - 2

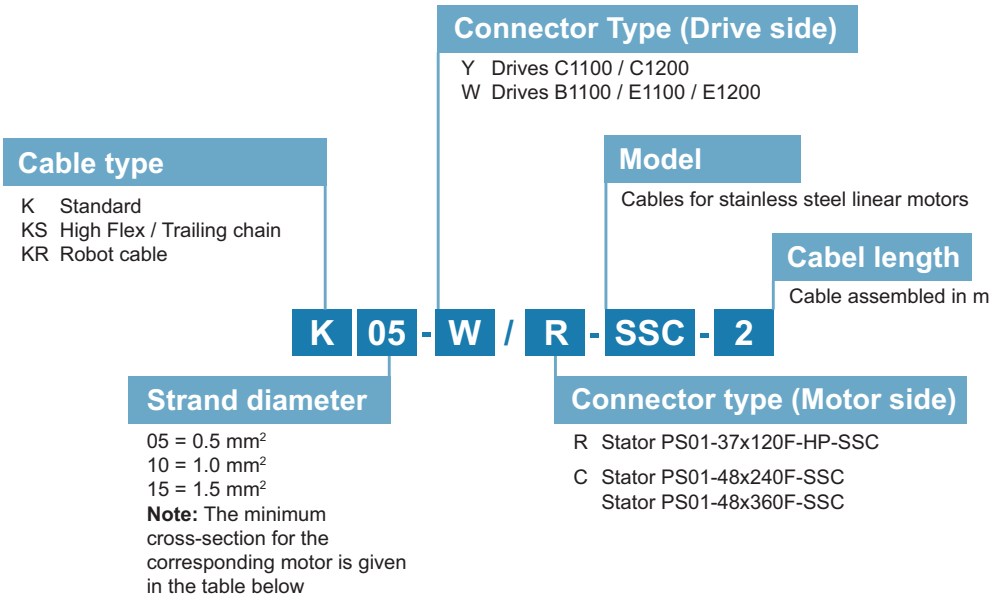
Strand diameter
- 05 = 0.5 mm²
- 10 = 1.0 mm²
- 15 = 1.5 mm²

Note: The minimum cross-section for the corresponding motor is given in the table below

Connector type (Motor side)
- R Stator PS01-23x80
  Stator PS01-23x80F-HP
  Stators PS01-23x160(F)
  Stator PS01-23x160H-HP
  Linear Motors P04-37x120F-HP
- N Stator PS01-37Sx60-HP
  Stator PS01-37Sx120F-HP
- D Stator PS01-23x80
  Stators PS01-23x160(F)
- F Stator PS02-23Sx80
- C Stator PS01-37x120
  Stator PS01-37x120F-HP
  Stators PS01-37x240(F)
  Stators PS01-48x240(F)
  Stator PS01-48x360F
  Linear Motors P04-48x240F
- K Stator PS02-23Sx80F-HP
- P Stator PS01-37x120
  Stators PS01-37x240(F)

Minimum Strand Diameter						
	Max. Cont. Force [A rms]		Strand diameter according to DIN		Strand diameter according to UL	
	Passive cooling	Fan cooling	Passive cooling	Fan cooling	Passive cooling	Fan cooling
PS01-23x80	0.6	1.1	K(x)05	K(x)05	K(x)05	K(x)05
PS01-23x80F-HP	1.2	1.0	K(x)05	K(x)05	K(x)05	K(x)05
PS02-23Sx80	0.6	1.0	K(x)05	K(x)05	K(x)05	K(x)05
PS02-23Sx80F-HP	1.1	2.0	K(x)05	K(x)05	K(x)05	K(x)05
PS01-23x160	0.6	1.0	K(x)05	K(x)05	K(x)05	K(x)05
PS01-23x160F	0.8	1.6	K(x)05	K(x)05	K(x)05	K(x)05
PS01-23x160H-HP	1.8	2.7	K(x)05	K(x)05	K(x)05	K(x)05
PS01-37Sx60-HP	0.9	1.8	K(x)05	K(x)05	K(x)05	K(x)05
PS01-37x120	1.5	1.9	K(x)05	K(x)05	K(x)05	K(x)05
PS01-37x120F-HP	2.1	3.8	K(x)05	K(x)05	K(x)05	K(x)05
PS01-37Sx120F-HP	1.5	3.0	K(x)05	K(x)05	K(x)05	K(x)05
PS01-37x240	1.0	1.8	K(x)05	K(x)05	K(x)05	K(x)05
PS01-37x240F	1.5	2.8	K(x)05	K(x)05	K(x)05	K(x)05
PS01-48x240	2.7	4.7	K(x)05	K(x)05	K(x)05	K(x)10
PS01-48x240F	4.8	8.3	K(x)05	K(x)05	K(x)10	K(x)15
PS01-48x360F	4.6	7.9	K(x)05	K(x)05	K(x)10	K(x)15
P04-37x120F-HP	2.9	4.0	K(x)05	K(x)05	K(x)05	K(x)05
P04-48x240F	4.7	8.3	K(x)05	K(x)05	K(x)10	K(x)15

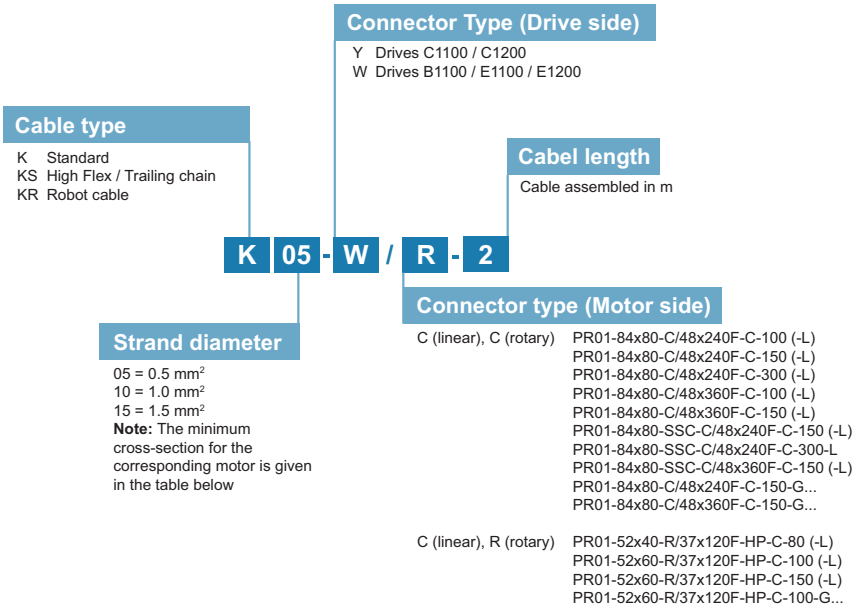
TYPE CODE OF MOTOR CABLE FOR STAINLESS STEEL LINEAR MOTORS



Minimum Strand Diameter						
	Max. Cont. Force [A rms]		Strand diameter according to DIN		Strand diameter according to UL	
	Passive cooling	Fluid cooling	Passive cooling	Fluid cooling	Passive cooling	Fluid cooling
PS01-37x120F-HP-SSC	1.3	3.4	K(x)05	K(x)05	K(x)05	K(x)05
PS01-48x240F-SSC	3.3	9.2	K(x)05	K(x)05	K(x)05	K(x)15*
PS01-48x360F-SSC	3.4	9.4	K(x)05	K(x)05	K(x)05	K(x)15**

*Up to max. cont. force 230 N rms
**Up to max. cont. force 333 N rms

TYPE CODE OF MOTOR CABLE FOR LINEAR ROTARY MOTORS



Minimum Strand Diameter						
	Max. Cont. Force [A rms]		Strand diameter according to DIN		Strand diameter according to UL	
	Passive cooling	Fan cooling	Passive cooling	Fan cooling	Passive cooling	Fan cooling
PR01-52x40-R/37x120F-HP-C-80 (-L)	2.1	3.8	K(x)05	K(x)05	K(x)05	K(x)05
PR01-52x60-R/37x120F-HP-C-100 (-L)	2.1	3.8	K(x)05	K(x)05	K(x)05	K(x)05
PR01-52x60-R/37x120F-HP-C-150 (-L)	2.1	3.8	K(x)05	K(x)05	K(x)05	K(x)05
PR01-84x80-C/48x240F-C-100 (-L)	4.8	8.3	K(x)05	K(x)05	K(x)10	K(x)15
PR01-84x80-C/48x240F-C-150 (-L)	4.8	8.3	K(x)05	K(x)05	K(x)10	K(x)15
PR01-84x80-C/48x240F-C-300 (-L)	4.8	8.3	K(x)05	K(x)05	K(x)10	K(x)15
PR01-84x80-C/48x360F-C-100 (-L)	4.6	7.9	K(x)05	K(x)05	K(x)10	K(x)15
PR01-84x80-C/48x360F-C-150 (-L)	4.6	7.9	K(x)05	K(x)05	K(x)10	K(x)15
PR01-84x80-SSC-C/48x240F-C-150 (-L)	4.8	8.3	K(x)05	K(x)05	K(x)10	K(x)15
PR01-84x80-SSC-C/48x240F-C-300-L	4.8	8.3	K(x)05	K(x)05	K(x)10	K(x)15
PR01-84x80-SSC-C/48x360F-C-150 (-L)	4.6	7.9	K(x)05	K(x)05	K(x)10	K(x)15
PR01-52x60-R/37x120F-HP-C-100-G...	2.1	3.8	K(x)05	K(x)05	K(x)05	K(x)15
PR01-84x80-C/48x240F-C-150-G...	4.8	8.3	K(x)05	K(x)05	K(x)10	K(x)15
PR01-84x80-C/48x360F-C-150-G...	4.6	7.9	K(x)05	K(x)05	K(x)10	K(x)15

Minimum Strand Diameter						
	Max. Cont. Force [A rms]		Strand diameter according to DIN		Strand diameter according to UL	
	Passive cooling	Fan cooling	Passive cooling	Fan cooling	Passive cooling	Fan cooling
PR01-52x40-R/37x120F-HP-C-80 (-L)	1.2	1.8	K(x)05	K(x)05	K(x)05	K(x)05
PR01-52x60-R/37x120F-HP-C-100 (-L)	2.1	3.1	K(x)05	K(x)05	K(x)05	K(x)05
PR01-52x60-R/37x120F-HP-C-150 (-L)	2.1	3.1	K(x)05	K(x)05	K(x)05	K(x)05
PR01-84x80-C/48x240F-C-100 (-L)	3.9	5.5	K(x)05	K(x)05	K(x)05	K(x)10
PR01-84x80-C/48x240F-C-150 (-L)	3.9	5.5	K(x)05	K(x)05	K(x)05	K(x)10
PR01-84x80-C/48x240F-C-300 (-L)	3.9	5.5	K(x)05	K(x)05	K(x)05	K(x)10
PR01-84x80-C/48x360F-C-100 (-L)	3.9	5.5	K(x)05	K(x)05	K(x)05	K(x)10
PR01-84x80-C/48x360F-C-150 (-L)	3.9	5.5	K(x)05	K(x)05	K(x)05	K(x)10
PR01-84x80-SSC-C/48x240F-C-150 (-L)	3.9	5.5	K(x)05	K(x)05	K(x)05	K(x)10
PR01-84x80-SSC-C/48x240F-C-300-L	3.9	5.5	K(x)05	K(x)05	K(x)05	K(x)10
PR01-84x80-SSC-C/48x360F-C-150 (-L)	3.9	5.5	K(x)05	K(x)05	K(x)05	K(x)10
PR01-52x60-R/37x120F-HP-C-100-G...	2.1	3.1	K(x)05	K(x)05	K(x)05	K(x)10
PR01-84x80-C/48x240F-C-150-G...	3.9	5.5	K(x)05	K(x)05	K(x)05	K(x)10
PR01-84x80-C/48x360F-C-150-G...	3.9	5.5	K(x)05	K(x)05	K(x)05	K(x)10

MOTOR CABLE PER M		
Item	**Description**	**Item-No.**
K05-04/05	Motor cable per m	0150-1920
K05-04/05-50	Motor cable 50 m roll	0150-1956
K05-04/05-100	Motor cable 100 m roll	0150-1957
K05-04/05-200	Motor cable 200 m roll	0150-1958
K15-04/05	Motor cable per m	0150-1978
K15-04/05-100	Motor cable 100 m roll	0150-1969
K15-04/05-050	Motor cable 50 m roll	0150-5495
KS03-09	Trailing chain cable per m (max. 6 m)	0150-2182
KS05-04/05	Trailing chain cable per m	0150-1938
KS05-04/05-100	Trailing chain cable 100 m roll	0150-1959
KS10-04/05	Trailing chain cable per m	0150-1977
KS10-04/05-100	Trailing chain cable 100 m roll	0150-1968
KR05-04/05	Robotic cable per m	0150-1846
KR05-04/05-100	Robotic cable 100 m roll	0150-1847
KR10-04/05	Robotic cable per m	0150-1830
KR10-04/05-100	Robotic cable 100 m roll	0150-1831

MOTOR CABLE FLAT FOR SHORT TYPE MOTORS P02-23Sx80-F		
Item	**Description**	**Item-No.**
KF02-D15/F-0.08	Flat cable 0.08m, for PS02-23Sx80-F	0150-2150
KF02-D15/F-0.16	Flat cable 0.16m, for PS02-23Sx80-F	0150-2156
KF02-D15/F-0.32	Flat cable 0.32m, for PS02-23Sx80-F	0150-2152
KF02-D15/F-0.48	Flat cable 0.48m, for PS02-23Sx80-F	0150-2154
KF02-D15/F-0.70	Flat cable 0.70m, for PS02-23Sx80-F	0150-2158
K05-D/D15-1	Adapter cable D/D15,1m (for PS01-23Sx80)	0150-1936

MOTOR CABLE FOR LINEAR MOTORS WITH R CONNECTOR		
Item	**Description**	**Item-No.**
K05-W/R-2	Motor cable W/R, 2 m	0150-2119
K05-W/R-3	Motor cable W/R, 3 m	0150-2459
K05-W/R-4	Motor cable W/R, 4 m	0150-2120
K05-W/R-6	Motor cable W/R, 6 m	0150-2121
K05-W/R-8	Motor cable W/R, 8 m	0150-2122
K05-W/R-10	Motor cable W/R, 10 m	0150-2132
K05-Y/R-2	Motor cable Y/R, 2 m	0150-2421
K05-Y/R-4	Motor cable Y/R, 4 m	0150-2422
K05-Y/R-6	Motor cable Y/R, 6 m	0150-2423
K05-Y/R-8	Motor cable Y/R, 8 m	0150-2424
K05-HI/R-2	Motor cable HI/R, 2 m	0150-2449
K05-HI/R-4	Motor cable HI/R, 4 m	0150-2450
KS05-W/R-4	Trailing chain cable W/R, 4 m	0150-2106
KS05-W/R-6	Trailing chain cable W/R, 6 m	0150-2131
KS05-W/R-8	Trailing chain cable W/R, 8 m	0150-2107
KS05-Y/R-4	Trailing chain cable Y/R, 4 m	0150-2433
KS05-Y/R-6	Trailing chain cable Y/R, 6 m	0150-2434
KS05-Y/R-8	Trailing chain cable Y/R, 8 m	0150-2435
KS05-R/R-2	Trailing chain cable R/R, 2 m	0150-1838
KS05-R/R-4	Trailing chain cable R/R, 4 m	0150-1839

MOTOR CABLE FOR LINEAR MOTORS WITH R-SSC CONNECTORS (STAINLESS STEEL)		
Item	**Description**	**Item-No.**
KS05-W/R-SSC-2	Trailing chain cable W/R-SSC, 2 m	0150-2683
KS05-W/R-SSC-4	Trailing chain cable W/R-SSC, 4 m	0150-2684
KS05-W/R-SSC-6	Trailing chain cable W/R-SSC, 6 m	0150-2685
KS05-W/R-SSC-8	Trailing chain cable W/R-SSC, 8 m	0150-2686
KS05-Y/R-SSC-2	Trailing chain cable Y/R-SSC, 2 m	0150-2687
KS05-Y/R-SSC-4	Trailing chain cable Y/R-SSC, 4 m	0150-2688
KS05-Y/R-SSC-6	Trailing chain cable Y/R-SSC, 6 m	0150-2689
KS05-Y/R-SSC-8	Trailing chain cable Y/R-SSC, 8 m	0150-2690

MOTOR CABLE FOR LINEAR MOTORS WITH C CONNECTOR		
Item	**Description**	**Item-No.**
K05-W/C-2	Motor cable W/C, 2 m	0150-2123
K05-W/C-4	Motor cable W/C, 4 m	0150-2124
K05-W/C-6	Motor cable W/C, 6 m	0150-2125
K05-W/C-8	Motor cable W/C, 8 m	0150-2126
K05-Y/C-2	Motor cable Y/C, 2 m	0150-2425
K05-Y/C-4	Motor cable Y/C, 4 m	0150-2426
K05-Y/C-6	Motor cable Y/C, 6 m	0150-2427
K05-Y/C-8	Motor cable Y/C, 8 m	0150-2428
K05-HI/C-2	Motor cable HI/C, 2 m	0150-2452
K05-HI/C-4	Motor cable HI/C, 4 m	0150-2451
K15-W/C-2	Motor cable W/C, 2 m	0150-1811
K15-W/C-4	Motor cable W/C, 4 m	0150-1801
K15-W/C-5	Motor cable W/C, 5 m	0150-1849
K15-W/C-6	Motor cable W/C, 6 m	0150-1802
K15-W/C-8	Motor cable W/C, 8 m	0150-1803
K15-Y/C-2	Motor cable Y/C, 2 m	0150-2429
K15-Y/C-4	Motor cable Y/C, 4 m	0150-2430
K15-Y/C-6	Motor cable Y/C, 6 m	0150-2431
K15-Y/C-8	Motor cable Y/C, 8 m	0150-2432
K15-HI/C-2	Motor cable HI/C, 2 m	0150-2453
K15-HI/C-4	Motor cable HI/C, 4 m	0150-2458
KS05-W/C-4	Trailing chain cable W/C, 4 m	0150-2127
KS05-W/C-6	Trailing chain cable W/C, 6 m	0150-2128
KS05-W/C-8	Trailing chain cable W/C, 8 m	0150-2129
KS05-Y/C-4	Trailing chain cable Y/C, 4 m	0150-2436
KS05-Y/C-6	Trailing chain cable Y/C, 6 m	0150-2437
KS05-Y/C-8	Trailing chain cable Y/C, 8 m	0150-2438
KS05-C/C-2	Trailing chain cable C/C, 2 m	0150-1827
KS05-C/C-4	Trailing chain cable C/C, 4 m	0150-1828
KS10-W/C-4	Trailing chain cable W/C, 4 m	0150-1807
KS10-W/C-5	Trailing chain cable W/C, 5 m	0150-1860
KS10-W/C-6	Trailing chain cable W/C, 6 m	0150-1858
KS10-W/C-8	Trailing chain cable W/C, 8 m	0150-1808
KS10-Y/C-4	Trailing chain cable Y/C, 4 m	0150-2439
KS10-Y/C-6	Trailing chain cable Y/C, 6 m	0150-2440
KS10-Y/C-8	Trailing chain cable Y/C, 8 m	0150-2441
KS10-C/C-2	Trailing chain cable C/C, 2 m	0150-1816
KS10-C/C-4	Trailing chain cable C/C, 4 m	0150-1817

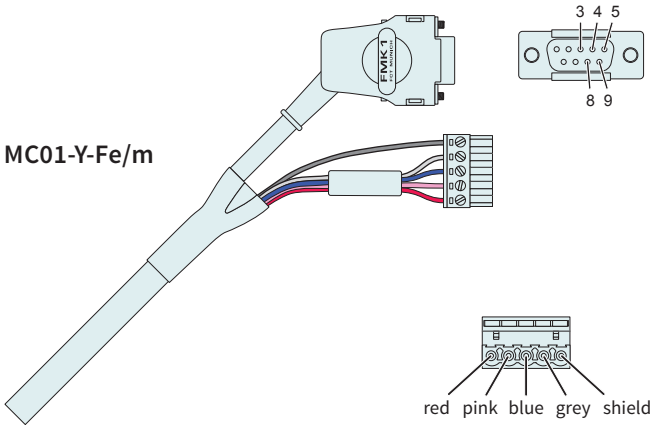
MOTOR CABLE FOR LINEAR MOTORS WITH C-SSC CONNECTORS (STAINLESS STEEL)		
Item	**Description**	**Item-No.**
KS10-W/C-SSC-2	Trailing chain cable W/C-SSC, 2 m	0150-2675
KS10-W/C-SSC-4	Trailing chain cable W/C-SSC, 4 m	0150-2676
KS10-W/C-SSC-6	Trailing chain cable W/C-SSC, 6 m	0150-2677
KS10-W/C-SSC-8	Trailing chain cable W/C-SSC, 8 m	0150-2678
KS10-Y/C-SSC-2	Trailing chain cable Y/C-SSC, 2 m	0150-2679
KS10-Y/C-SSC-4	Trailing chain cable Y/C-SSC, 4 m	0150-2680
KS10-Y/C-SSC-6	Trailing chain cable Y/C-SSC, 6 m	0150-2681
KS10-Y/C-SSC-8	Trailing chain cable Y/C-SSC, 8 m	0150-2682

MOTOR CABLE FOR SHORT TYPE MOTORS P02-23Sx80-F-HP-K		
Item	**Description**	**Item-No.**
KS03-W-Fe/K-2	Trailing chain cable W-Fe/K 2 m	0150-2187
KS03-W-Fe/K-4	Trailing chain cable W-Fe/K 4 m	0150-2369
KS03-W-Fe/K-6	Trailing chain cable W-Fe/K 6 m	0150-2370
KS03-Y-Fe/K-2	Trailing chain cable Y-Fe/K, 2 m	0150-2446
KS03-Y-Fe/K-4	Trailing chain cable Y-Fe/K, 4 m	0150-2447
KS03-Y-Fe/K-6	Trailing chain cable Y-Fe/K, 6 m	0150-2448
KS03-R/K-1	Trailing chain cable R/K 1 m	0150-2185
KS03-R/K-2	Trailing chain cable R/K 2 m	0150-2186

MOTOR CABLE FOR SHORT TYPE MOTORS P01-37SX...-HP-N		
Item	**Description**	**Item-No.**
KS05-W/N-2	Trailing chain cable W/N, 2 m	0150-2296
KS05-W/N-4	Trailing chain cable W/N, 4 m	0150-2297
KS05-W/N-6	Trailing chain cable W/N, 6 m	0150-2298
KS05-W/N-8	Trailing chain cable W/N, 8 m	0150-2299
KS05-Y/N-2	Trailing chain cable Y/N, 2 m	0150-2442
KS05-Y/N-4	Trailing chain cable Y/N, 4 m	0150-2443
KS05-Y/N-6	Trailing chain cable Y/N, 6 m	0150-2444
KS05-Y/N-8	Trailing chain cable Y/N, 8 m	0150-2445

Y-CONNECTOR

MC01-Y-Fe/m

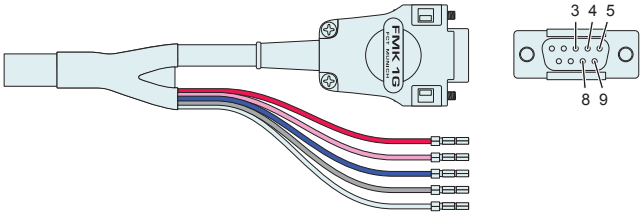


Strand red	Phase 1+	red
Strand pink	Phase 1-	pink
Strand blue	Phase 2+	blue
Strand grey	Phase 2-	grey
3	+5V	white
8	GND	inner Shield
4	Sensor Sine	yellow
9	Sensor Cosine	green
5	Temp. Sensor	black
Shield	Shield	Outer shield

Item	Description	Item-No.
MC01-Y-Fe/m	Motor connector Y-Fe/m	0150-3289
MC01-Y-Fe/m-as (assembled)	Y/m-Connector assembled	0150-3500

W-CONNECTOR

MC01-W/m

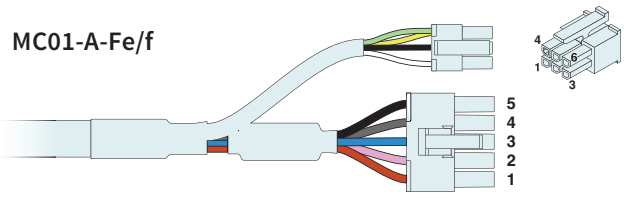


Strand red	Phase 1+	red
Strand pink	Phase 1-	pink
Strand blue	Phase 2+	blue
Strand grey	Phase 2-	grey
3	+5V	white
8	GND	inner Shield
4	Sensor Sine	yellow
9	Sensor Cosine	green
5	Temp. Sensor	black
Shield	Shield	Outer Shield

Item	Description	Item-No.
MC01-W/m	Motor connector W/m	0150-3140
MC01-W/m-as (assembled)	W/m-Connector assembled	0150-3147

A-CONNECTOR

MC01-A-Fe/f



Power

1	Phase 1+	red
2	Phase 1-	pink
3	Phase 2+	blue
4	Phase 2-	grey
5	Shield	Outer Shield

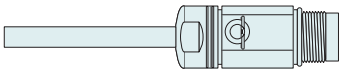
Signal

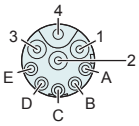
1	GND	brown (Kx03) / Drain wire inner shield (Kx05)
2	Temp. Sensor	black
3	Sensor Sine	yellow
4	+5V	white
5	n. c.	n. c.
6	Sensor Cosine	green

Item	Description	Item-No.
MC01-A-Fe/f-as	A-Fe/f-connector assembled	0150-3541

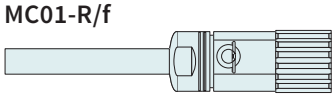
R-CONNECTOR

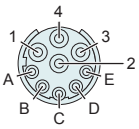
MC01-R/m





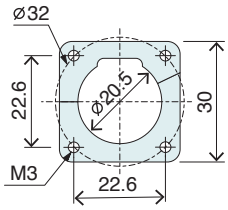
MC01-R/f



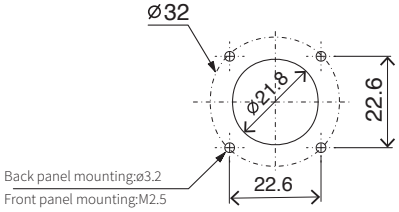


1	Phase 1+	red
2	Phase 1-	pink
3	Phase 2+	blue
4	Phase 2-	grey
A	+5V	white
B	GND	inner Shield
C	Sensor Sine	yellow
D	Sensor Cosine	green
E	Temp. Sensor	black
Housing	Shield	Outer Shield

MC01-F/R



Mounting window



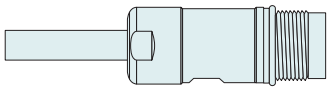
Item	Description	Item-No.
MC01-R/m	Motor connector R/m	0150-3130
MC01-R/f	Motor connector R/f	0150-3129
MC01-R/m-as (assembled)	R/m-Connector assembled	0150-3097
MC01-R/f -as (assembled)	R/f-Connector assembled	0150-3143
MC01-F/R	Mounting flange for connector MC01-R	0150-3253
MC01-R/m-cap (Kappe)	Metal protection cap for R/m (Motor)	0150-3376
MC01-R/f-cap (Kappe)	Metal protection cap for R/f (Cable)	0150-3377

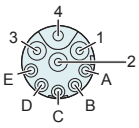
MC01-R/m-cap

MC01-R/m-cap

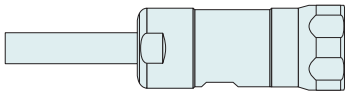
R-CONNECTOR STAINLESS STEEL

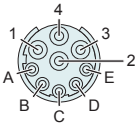
MC01-R/m-IP69K-SSC





MC01-R/f-IP69K-SSC





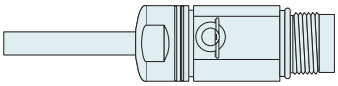
1	Phase 1+	red
2	Phase 1-	pink
3	Phase 2+	blue
4	Phase 2-	grey
A	+5V	white
B	GND	inner Shield
C	Sensor Sine	yellow
D	Sensor Cosine	green
E	Temp. Sensor	black
Housing	Shield	Outer Shield

Item	Description	Item-No.
MC01-R/m-IP69K-SSC	Motor connector R/m-SSC	0150-3381
MC01-R/f-IP69K-SSC	Motor connector R/f, IP69k, SSC	0150-3347
MC01-R/m-IP69K-SSC-as (assembled)	R/m-Connector IP69K, SSC, assembled	0150-3685
MC01-R/f-IP69K-SSC-as (assembled)	R/f-Connector IP69K, SSC, assembled	0150-3343

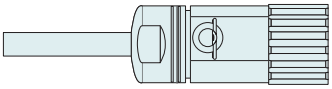
Material: Stainless steel, Mat-Nr. 1.4404

C-CONNECTOR

MC01-C/m

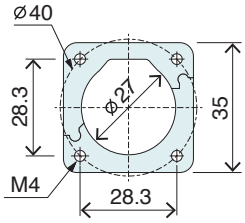


MC01-C/f

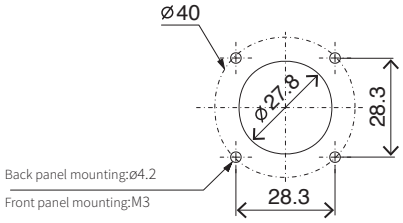


A	Phase 1+	red
B	Phase 1-	pink
C	Phase 2+	blue
D	Phase 2-	grey
E	+5V	white
F	GND	inner Shield
G	Sensor Sine	yellow
H	Sensor Cosine	green
L	Temp. Sensor	black
Housing	Shield	Outer Shield

MC01-F/C



Mounting window



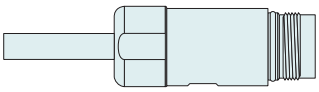
Item	Description	Item-No.
MC01-C/m	Motor connector C/m	0150-3093
MC01-C/f	Motor connector C/f	0150-3080
MC01-C/m-as (assembled)	C/m-Connector assembled	0150-3099
MC01-C/f-as (assembled)	C/f-Connector assembled	0150-3146
MC01-F/C Steckerflansch	Mounting flange for connector MC01-C	0150-3254
MC01-C/m-cap (Kappe)	Metal protection cap for C/m (Motor)	0150-3378
MC01-C/f-cap (Kappe)	Metal protection cap for C/f (Cable)	0150-3379

MC01-C/m-cap

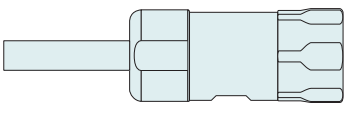
MC01-R/m-cap

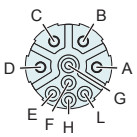
C-CONNECTOR INOX

MC01-C/m-IP69K-SSC



MC01-C/f-IP69K-SSC





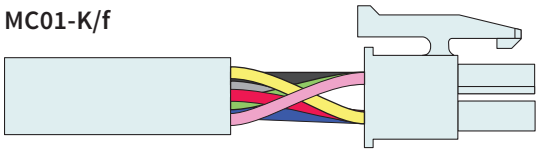
A	Phase 1+	red
B	Phase 1-	pink
C	Phase 2+	blue
D	Phase 2-	grey
E	+5V	white
F	GND	inner Shield
G	Sensor Sine	yellow
H	Sensor Cosine	green
L	Temp. Sensor	black
Housing	Shield	Outer Shield

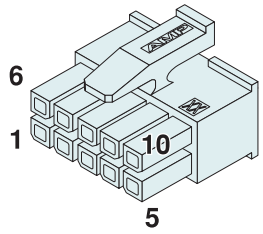
Item	Description	Item-No.
MC01-C/m-IP69K-SSC	Motor connector C/m-SSC	0150-3372
MC01-C/f-IP69K-SSC	Motor connector C/f, IP69K, SSC	0150-3306
MC01-C/m-IP69K-SSCas (assembled)	Motor connector C/m, IP69K, SSC assembled	0150-3404
MC01-C/f-IP69K-SSC-as (assembled)	C/f-Connector IP69K, SSC assembled	0150-3325

Material: Stainless steel, Mat-Nr. 1.4404

K-CONNECTOR

MC01-K/f



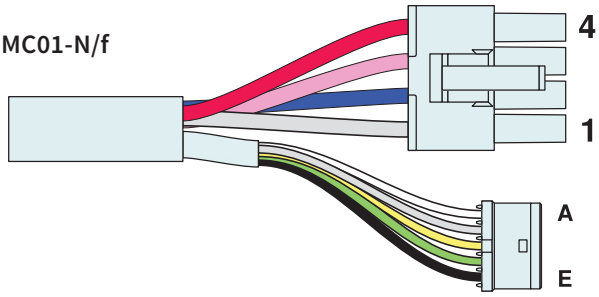


1	Phase 1+	red
2	Phase 2+	blue
4	Phase 1-	pink
5	Phase 2-	grey
9	+5V	white
8	GND	brown
6	Sensor Sine	yellow
7	Sensor Cosine	green
10	Temp. Sensor	black
Shield	Shield	Outer Shield

Item	Description	Item-No.
MC01-K/f	Motor connector K (f)	0150-3345
MC01-K/f-as (assembled)	K/f-Connector assembled	0150-3346

N-CONNECTOR

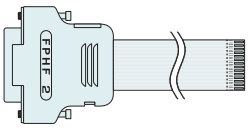
MC01-N/f



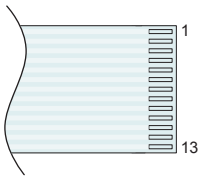
4	Phase 1+	red
3	Phase 1-	pink
2	Phase 2+	blue
1	Phase 2-	grey
A	+5V	white
B	GND	inner Shield
C	Sensor Sine	yellow
D	Sensor Cosine	green
E	Temp. Sensor	black
	Housing	Outer shield

Item	Description	Item-No.
MC01-N/f	Motor connector N/f	0150-3407
MC01-N/f-as (assembled)	N/f-Connector assembled	0150-3408

F-CONNECTOR



MC01-D15W/f



ZIF-Line Molex
pitch 1.2 5mm

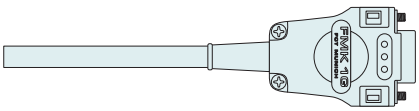
12 & 13	Phase 2-	12 & 13
3 & 4	Phase 2+	3 & 4
10 & 11	Phase 1-	10 & 11
1 & 2	Phase 1+	1 & 2
5	Sensor Sine	5
7	GND	7
9	+5V	9
8	Temp. Sensor	8
6	Sensor Cosine	6

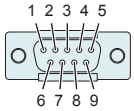
Item	Description	Item-No.
KF02-D15/F-...	Flat cable with D15/m-Connector	see section ordering information / Motor cable flat for short motors P02-23Sx80-F

Plugging in or unplugging the flat ribbon cable under voltage can damage the motor and drive.

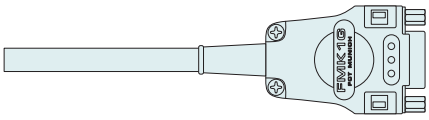
D-CONNECTOR

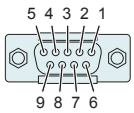
MC01-D/m





MC01-D/f



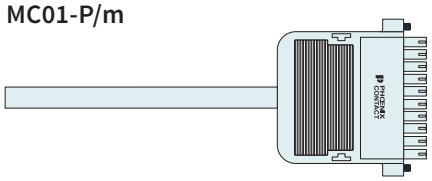


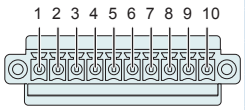
1	Phase 1+	red
6	Phase 1-	pink
2	Phase 2+	blue
7	Phase 2-	grey
3	+5V	white
8	GND	inner Shield
4	Sensor Sine	yellow
9	Sensor Cosine	green
5	Temp. Sensor	black
Housing	Shield	Outer Shield

Item	Description	Item-No.
MC01-D/m	Motor connector D (m)	0150-3024
MC01-D/f	Motor connector D (f)	0150-3025
MC01-D/m-as (assembled)	D/m-Connector assembled	0150-3055
MC01-D/f-as (assembled)	D/f-Connector assembled	0150-3142

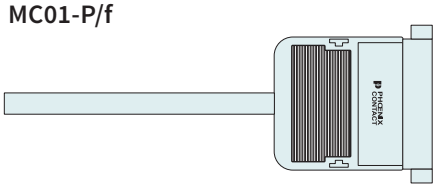
P-CONNECTOR

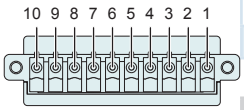
MC01-P/m





MC01-P/f



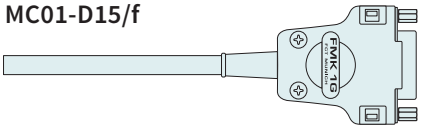


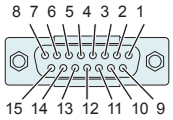
1	Phase 1+	red
2	Phase 1-	pink
3	Phase 2+	blue
4	Phase 2-	grey
5	+5V	white
6	GND	inner Shield
7	Sensor Sine	yellow
8	Sensor Cosine	green
9	Temp. Sensor	black
10	Shield	Outer Shield

Item	Description	Item-No.
MC01-P/m	Motor connector P (m)	0150-3020
MC01-P/f	Motor connector P (f)	0150-3021
MC01-P/m-as (assembled)	P/m-Connector assembled	0150-3056
MC01-P/f-as (assembled)	P/f-Connector assembled	0150-3144

D15-CONNECTOR

MC01-D15/f



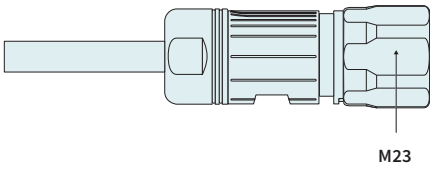


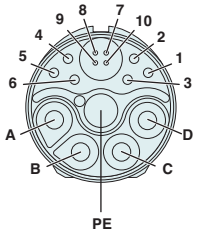
7 & 15	Phase 1+	red
3 & 10	Phase 1-	pink
6 & 14	Phase 2+	blue
2 & 9	Phase 2-	grey
11	+5V	white
12	GND	inner Shield
13	Sensor Sine	yellow
5	Sensor Cosine	green
4	Temp. Sensor	black
Housing	Shield	Outer shield

Item	Description	Item-No.
MC01-D15/f	Motor connector D15 (f)	0150-3136
MC01-D15/f-as (assembled)	D15/f-Connector assembled	0150-3073

E6k-CONNECTOR EX

MC01-E6k/f-EX





A	Phase 1+	red
B	Phase 1-	pink
C	Phase 2+	blue
D	Phase 2-	grey
PE	Protective Earth	green-yellow
1	+5V	white
2	GND	Inner shield (Signal Leads)
3	Sensor Sine	yellow
4	Sensor Cosine	green
5	Temp. Sensor	black
6	n.c.	-
7	Kty 1+	orange
8	Kty 1-	brown
9	Kty 2+	violett
10	Kty 2-	beige
Housing	Shield	Inner shield (Kty Leads) Outer shield

Item	Description	Item-No.
MC01-E6k/f-EX	Connector with hexagonal union nut	0150-3538
MC01-E6k/f-EX-as	E/f-Connector with hexagonal union nut assembled	0150-3641

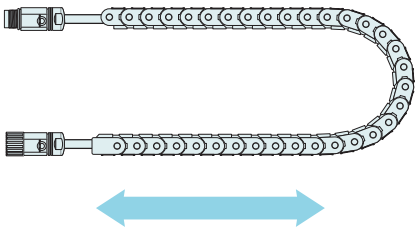
MOTOR CABLES FOR P10 MOTORS

- High-flex cables for cable chain applications
- Tested under high voltage
- Completely prefabricated
- With quick-connect plugs
- Very good EMC properties

Motor cables for P10 Motors

For type P10 three-phase linear motors, LinMot uses the conventional two-cable solution. The connection is made using one power cable and one signal cable. Both cables have external shielding and can be used in moving cable carriers. The use of twisted conductor pairs in the signal cable provides even better signal transmission. The influence of external interference from oscillating fields is greatly reduced.

HIGH FLEX KS MOTOR CABLES



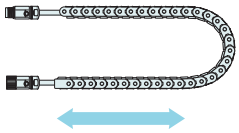
The high-flex type KS motor cable is suitable for applications where the motor cable moves, where the cable is routed through a cable carrier and undergoes a roll-up motion.

BY LENGTH OR COMPLETELY PREFABRICATED

The LinMot cable for P10 motors is available by length. It can be cut to the desired length or ordered in large quantities on rolls. LinMot carries all of the motor plugs for customers to assemble their own motor cables.

Fully assembled motor cables can be shipped in lengths up 50 m. Order the motor cable in the desired length together with the matching motor plugs (assembled.) Prefabricated motor cables with the most commonly used plug combinations can be shipped from stock in standard lengths. LinMot motor cables are produced using only crimped contacts and are tested under high voltage prior to shipment.

High flex trailing chain cable for P10 Stators



Cable type	KSS05-02/06	KSS05-02/08	KSS05-02/13	KPS07-04/02	KPS15-04	KPS15-04/04
Wire cross-section Motor phases	0.5 mm² (AWG20)	0.5 mm² (AWG20)	0.5 mm² (AWG20)	0.75 mm² (AWG18)	1.5 mm² (AWG15)	1.5 mm² (AWG15)
Wire cross-section Sensor signal	0.25 mm² (AWG23)	0.25 mm² (AWG23)	0.25 mm² (AWG23)	0.25 mm² (AWG23)	(-)	0.75 mm² (AWG18)
Material Wire insulation	PP	TPE	PE	PES	TPE	TPE
Material Cable sheath	PUR	Special TPU	PUR	PUR	Special TPU	PUR
Colour Cable sheath	green	green	green	orange	orange	orange
Cable cross section	7.7 mm (0.3 in)	8.9 mm (0.35 in)	9 mm (0.35 in)	9.1 mm (0.36 in)	10.2 mm (0.4 in)	12.3 mm (0.48 in)
Weight	76 kg/km (270 lb/mi)	106 kg/km (376 lb/mi)	100 kg/km (355 lb/mi)	116 kg/km (412 lb/mi)	167 kg/km (593 lb/mi)	228 kg/km (809 lb/mi)
Approvals	UL / CSA 300V	UL / CSA 300V	UL / CSA 300V	UL / CSA 1000V / 300V	UL / CSA 1000V	UL / CSA 1000V / 300V
Minimum bending radius static	60 mm (2.36 in)	45 mm (1.75)	45 mm (1.75)	70 mm (2.76 in)	50 mm (2 in)	60 mm (2.36 in)
Minimum bending radius moving	120 mm (4.72 in)	90 mm (3.54 in)	90 mm (3.54 in)	140 mm (5.52 in)	100 mm (4 in)	120 mm (4.72 in)
Temperature range	-20°...+70°C	-20°...+70°C	-20°...+70°C	-20°...+70°C	-20°...+70°C	-40°...+80°C

TYPE CODE OF MOTOR CABLE FOR P10 MOTORS

Number of strands (A)
Number of strands with a cross-section as indicated in the designation.

Connector Type (Drive side)

B (Power)	Drives C1400
D15s (Signal)	Drives C1400
L (Power)	Drives E1400
D15 (Signal)	Drives E1400

Cable type
KPS Trailing chain cable (Power)
KSS Trailing chain cable (Encoder)

Cabel length
Cable assembled in m

KSS 05 - 02 / 08 - D15 / J - 2

Strand diameter
05 = 0.5 mm²
10 = 1.0 mm²
15 = 1.5 mm²
Note: The minimum cross-section for the corresponding motor is given in the table below

Connector type (Motor side)

T (Power)	Stators PS10-54
Uk (Signal)	Stators PS10-54
Q (Power)	Stators PS10-70
J (Signal)	Stators PS10-70

Number of strands (B)
Number of strands with a cross-section other than that indicated in the designation.

Minimum Strand Diameter						
	Max. Cont. Force [A rms]		Strand diameter according to DIN		Strand diameter according to UL	
	Passive cooling	Fluid cooling	Passive cooling	Fluid cooling	Passive cooling	Fluid cooling
P10-54x120U	1.4	2.7	KPS07	KPS07	KPS07	KPS07
P10-54x180U	2.6	5.1	KPS07	KPS07	KPS07	KPS07
P10-54x240U	2.6	5.1	KPS07	KPS07	KPS07	KPS07
P10-54x300U	3.2	6.5	KPS07	KPS07	KPS07	KPS07
P10-70x80U	1.3	3.7	KPS15	KPS15	KPS15	KPS15
P10-70x160U	2.4	6.6	KPS15	KPS15	KPS15	KPS15
P10-70x240U	3.4	9.1	KPS15	KPS15	KPS15	KPS15
P10-70x320U	3.0	8.0	KPS15	KPS15	KPS15	KPS15
P10-70x400U	4.2	11.5	KPS15	KPS15	KPS15	KPS15

Encoder cable	
P10-54x120U	KSS05 encoder cable is used for all P10 motors.
P10-54x180U	
P10-54x240U	
P10-54x300U	
P10-70x80U	
P10-70x160U	
P10-70x240U	
P10-70x320U	
P10-70x400U	

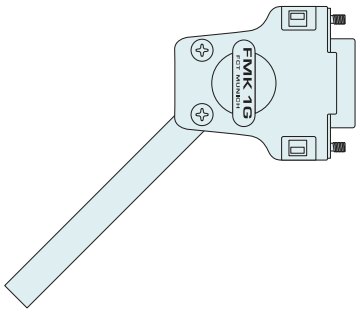
MOTOR CABLE PER M		
Item	**Description**	**Item-No.**
KSS05-02/08	Encoder trailing chain cable LinMot (per m)	0150-2258
KSS05-02/08-100	Encoder trailing chain cable LinMot (100 m)	0150-3575
KSS05-02/13	Encoder trailing chain cable P10-...-Dxx (per m)	0150-2259
KSS05-02/06	Encoder trailing chain cable P10-...-Dx3 (per m)	0150-2490
KPS15-04	Power trailing chain cable P10-70 (per m)	0150-2257
KPS15-04-100	Power trailing chain cable P10-70 (100 m)	0150-3576
KPS07-04/02	Power trailing chain cable P10-54 (per m)	0150-2372
KPS15-04/04	Power trailing chain cable P10-...-Dx3 (per m)	0150-2269

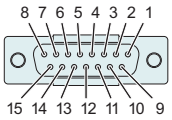
POWER & ENCODER CABLES FOR LINEAR MOTORS P10-54		
Item	**Description**	**Item-No.**
KPS07-04/02-L/Tk-3	Power trailing chain cable L/Tk, 3 m for Servo Drive E1400	0150-2670
KPS07-04/02-L/Tk-5	Power trailing chain cable L/Tk, 5 m for Servo Drive E1400	0150-2671
KPS07-04/02-L/Tk-8	Power trailing chain cable L/Tk, 8 m for Servo Drive E1400	0150-2672
KPS07-04/02-L/Tk-12	Power trailing chain cable L/Tk, 12 m for Servo Drive E1400	0150-2673
KPS07-04/02-B/Tk-3	Power trailing chain cable B/Tk, 3 m for Servo Drive C1400	0150-3648
KPS07-04/02-B/Tk-5	Power trailing chain cable B/Tk, 5 m for Servo Drive C1400	0150-3657
KPS07-04/02-B/Tk-8	Power trailing chain cable B/Tk, 8 m for Servo Drive C1400	0150-3658
KPS07-04/02-B/Tk-12	Power trailing chain cable B/Tk, 12 m for Servo Drive C1400	0150-3659
KSS 05-02/08-D15s/Uk-3	Encoder trailing chain cable D15s/Uk, 3 m	0150-2650
KSS 05-02/08-D15s/Uk-5	Encoder trailing chain cable D15s/Uk, 5 m	0150-2651
KSS 05-02/08-D15s/Uk-8	Encoder trailing chain cable D15s/Uk, 8 m	0150-2652
KSS 05-02/08-D15s/Uk-12	Encoder trailing chain cable D15s/Uk, 12 m	0150-2653
KPS07-04/02-./Tk-10	Power trailing chain cable .../Tk, 10 m	0150-3626
KSS 05-02/13-./Uk-10	Encoder trailing chain cable ./Uk, 10 m	0150-3627

POWER & ENCODER CABLES FOR LINEAR MOTORS P10-70		
Item	**Description**	**Item-No.**
KPS15-04-L/Q-3	Power trailing chain cable L/Q, 3 m for Servo Drive E1400	0150-2266
KPS15-04-L/Q-5	Power trailing chain cable L/Q, 5 m for Servo Drive E1400	0150-2261
KPS15-04-L/Q-8	Power trailing chain cable L/Q, 8 m for Servo Drive E1400	0150-2267
KPS15-04-L/Q-12	Power trailing chain cable L/Q, 12 m for Servo Drive E1400	0150-2268
KPS15-04-B/Q-3	Power trailing chain cable B/Q, 3 m for Servo Drive C1400	0150-3660
KPS15-04-B/Q-5	Power trailing chain cable B/Q, 5 m for Servo Drive C1400	0150-3661
KPS15-04-B/Q-8	Power trailing chain cable B/Q, 8 m for Servo Drive C1400	0150-3662
KPS15-04-B/Q-12	Power trailing chain cable B/Q, 12 m for Servo Drive C1400	0150-3663
KSS 05-02/08-D15/J-3	Encoder trailing chain cable D15/J, 3 m	0150-2263
KSS 05-02/08-D15/J-5	Encoder trailing chain cable D15/J, 5 m	0150-2262
KSS 05-02/08-D15/J-8	Encoder trailing chain cable D15/J, 8 m	0150-2264
KSS 05-02/08-D15/J-12	Encoder trailing chain cable D15/J, 12 m	0150-2265
KPS15-04-..../Q-10	Power trailing chain cable .../Q, 10m for D0x	0150-2376
KPS15-04/04..../Q-10	Power trailing chain cable .../Q, 10m for D03	0150-3654
KSS 05-02/13-./J-10	Encoder trailing chain cable ./J, 10m for D0x	0150-2377
KSS 05-02/06-./J-10	Encoder trailing chain cable ./J, 10m for D03	0150-3655

D15-45°- CONNECTOR

MC10-D15-45°/f



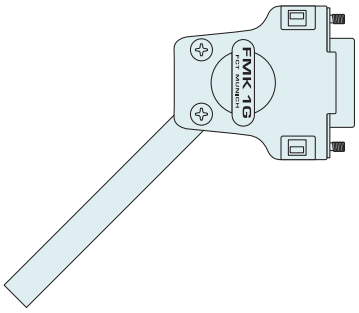


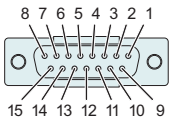
1	+5V	red
2	Sine-	orange
3	Cosine-	blue
4	GND Sense	brown
5	GND	black
6	Not connected	n.c.
7	Not connected	n.c.
8	Motor Link C-	grey
9	Sine+	yellow
10	Cosine+	green
11	+5V Sense	white
12	Not connected	n.c.
13	Not connected	n.c.
14	Not connected	n.c.
15	Motor Link C+	pink
Housing		all shields

Item	Description	Item-No.
MC10-D15-45°/f	Connector encoder C1400/E1400/X3	0150-3397
MC10-D15-45°/f-as	Connector encoder C1400/E1400/X3 assembled	0150-3399

D15S-45° - CONNECTOR

MC10-D15s-45°/f



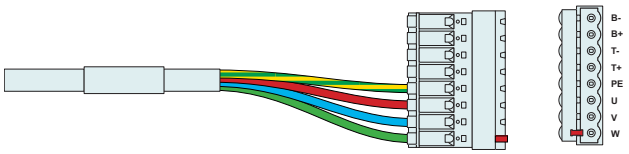


1	+5V	red
2	Sine-	orange
3	Cosine-	blue
4	Not connected	n.c.
5	GND	black
6	GND Sense	brown
7	Not connected	n.c.
8	Motor Link C-	grey
9	Sine+	yellow
10	Cosine+	green
11	Not connected	n.c.
12	Not connected	n.c.
13	+5V Sense	white
14	Not connected	n.c.
15	Motor Link C+	pink
Housing		all shields

Item	Description	Item-No.
MC10-D15s-45°/f-as	Connector encoder C1400/E1400/X3 assembled	0150-3632

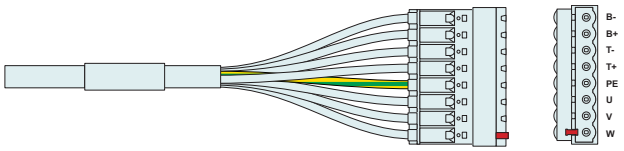
B-CONNECTOR

MC10-B/m



	Connector Wiring (without brake)	
PE	Protective Earth	yellow-green
W	Motor Phase W	green
V	Motor Phase V	blue
U	Motor Phase U	red
T+	Temperature Sensor T+	n.c.
T-	Temperature Sensor T-	n.c.
B+	Motor Brake+	n.c.
B-	Motor Brake-	n.c.

MC10-B/m

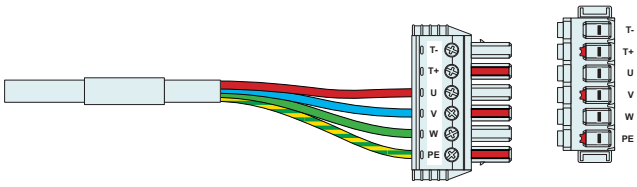


	Connector Wiring (with brake)	
PE	Protective Earth	yellow-green
W	Motor Phase W	black (Nr. 3)
V	Motor Phase V	black (Nr. 2)
U	Motor Phase U	black (Nr. 1)
T+	Temperature Sensor T+	black (Nr. 5)
T-	Temperature Sensor T-	black (Nr. 6)
B+	Motor Brake+	black (Nr. 7)
B-	Motor Brake-	black (Nr. 8)

Item	Description	Item-No.
MC10-B/m	Connector Power C1400/X2	0150-3605
MC10-B/m-as	Connector Power C1400/X2 assembled	0150-3606

L-CONNECTOR

MC10-L/m

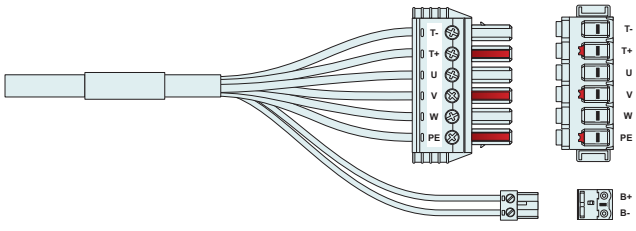


	Connector Wiring	
PE	Protective Earth	yellow-green
W	Motor Phase W	green
V	Motor Phase V	blue
U	Motor Phase U	red
T+	Temperature Sensor T+	n.c.
T-	Temperature Sensor T-	n.c.

Item	Description	Item-No.
MC10-L/m	Connector Power E1400/X2	0150-3382
MC10-L/m-as	Connector Power E1400/X2 assembled	0160-2330

Lb-CONNECTOR

MC10-L/m



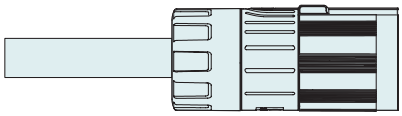
DC01-E1400/X32

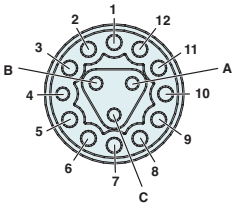
	Connector Wiring (with brake)	
PE	Protective Earth	yellow-green
W	Motor Phase W	black (Nr. 3)
V	Motor Phase V	black (Nr. 2)
U	Motor Phase U	black (Nr. 1)
T+	Temperature Sensor T+	black (Nr. 5)
T-	Temperature Sensor T-	black (Nr. 6)
B+	Brake B+	black (Nr. 7)
B-	Brake B-	black (Nr. 8)

Item	Description	Item-No.
MC10-L/m	Connector Power E1400/X2	0150-3382
DC01-E1400/X32	Drive Connector Brake	0150-3450
MC10-Lb/m-as	Connector Power E1400/X2/b assembled	0160-2723

Uk-CONNECTOR

MC10-Uk/f





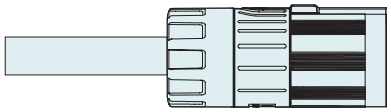
	PS10-54	
1	+Vcc	red
2	GND	black
3	Sin+	yellow
4	Sin-	orange
5	Cos+	green
6	Cos-	blue
7	Motor Link C+	pink
8	Motor Link C+	grey
9	n.c.	n.c.
10	n.c.	n.c.
11	n.c.	n.c.
12	n.c.	n.c.
A	n.c.	n.c.
B	n.c.	n.c.
C	n.c.	n.c.

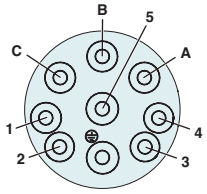
	PS10-54...D24	PS10-54...D25	PS10-54...D25S	
1	+Vcc	+Vcc	+Vcc	white
2	GND	GND	GND	brown
3	A	A	A	grey
4	/ A	/ A	/ A	pink
5	B	B	B	blue
6	/ B	/ B	/ B	red
7	-	-	-	do not connect
8	-	-	-	do not connect
9	Pt1000+	PTC+	PTC+	yellow-brown
10	Pt1000-	PTC-	PTC-	white-yellow
11	REF+	REF+	REF+	black
12	REF-	REF-	REF-	violett
A	Hall U	Hall U	Hall U	grey-red
B	Hall V	Hall V	Hall V	red-blue
C	Hall W	Hall W	Hall W	white-green

Item	Description	Item-No.
MC10-Uk/f	Connector encoder PS10-54	0150-3483
MC10-Uk/f-as	Connector encoder PS10-54 assembled	0150-3620

Tk-CONNECTOR

MC10-Tk/f



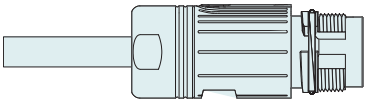


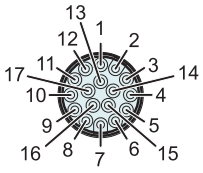
	PS10-54	PS10-54...D24	PS10-54...D25	PS10-54...D25S	
A	Phase U	Phase U	Phase U	Phase U	red
PE	Protective Earth	Protective Earth	Protective Earth	Protective Earth	yellow-green
B	Phase V	Phase V	Phase V	Phase V	blue
C	Phase W	Phase W	Phase W	Phase W	green
1	n.c.	Pt1000+	PTC+	PTC+	turquoise
2	n.c.	Pt1000-	PTC-	PTC-	grey
3	n.c.	n.c.	n.c.	n.c.	n.c.
4	n.c.	n.c.	n.c.	n.c.	n.c.
5	n.c.	n.c.	n.c.	n.c.	n.c.

Item	Description	Item-No.
MC10-Tk/f	Connector Power PS10-54	0150-3482
MC10-Tk/f-as	Connector Power PS10-54 assembled	0150-3623

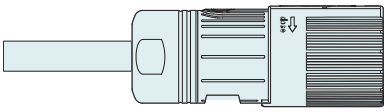
J-CONNECTOR

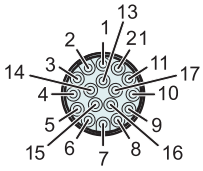
MC10-J/m





MC10-J/f





Item	Description	Item-No.
MC10-J/m	Connector encoder PS10-70/m	0160-2407
MC10-J/m-as	Connector encoder PS10-70/m assembled	0160-2408
MC10-J/f	Connector encoder PS10-70	0160-2269
MC10-J/f-as	Connector encoder PS10-70 assembled	0160-2331

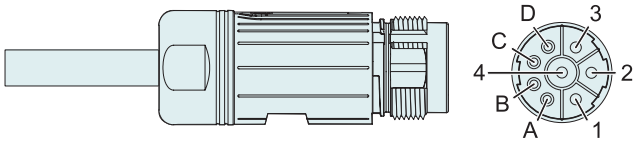
	P10-70	
1	+5 VDC	red
2	GND	black
3	Sense +5V	white
4	Sense GND	brown
5	Motor Link C+	pink
6	Motor Link C-	grey
7	Sine+	yellow
8	Sine-	orange
9	Cosine+	green
10	Cosine-	blue
11	n.c.	-
12	n.c.	-
13	n.c.	-
14	n.c.	-
15	n.c.	-
16	n.c.	-
17	n.c.	-

	P10-70...D01	P10-70...D02	
1	3...13 VDC	3...13 VDC	white
2	GND	GND	brown
3	Vcc Sense (opt.)	Vcc Sense (opt.)	green
4	GND Sense (opt.)	GND Sense (opt.)	yellow
5	Do not connect	Do not connect	-
6	Do not connect	Do not connect	-
7	Sine+	Sine+	grey
8	Sine-	Sine-	pink
9	Cosine+	Cosine+	blue
10	Cosine-	Cosine-	red
11	Ref+	Ref+	black
12	Ref-	Ref-	violett
13	Hall U	Hall U	grey-red
14	Hall V	Hall V	red-blue
15	Hall W	Hall W	white-green
16	KTY+	PTC+	yellow-brown
17	KTY-	PTC-	white-yellow

	P10-70...D03	
1	3...13 VDC	red
2	GND	black
3	Vcc Sense (opt.)	white
4	GND Sense (opt.)	brown
5	Do not connect	-
6	Do not connect	-
7	Sine+	yellow
8	Sine-	orange
9	Cosine+	green
10	Cosine-	blue
11	n.c.	n.c.
12	n.c.	n.c.
13	n.c.	n.c.
14	Do not connect	n.c.
15	n.c.	n.c.
16	n.c.	n.c.
17	n.c.	n.c.

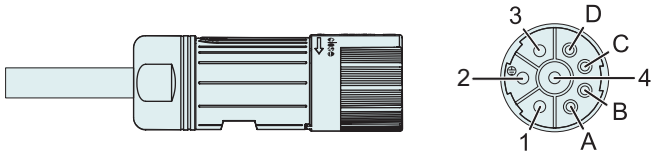
Q-CONNECTOR

MC10-Q/m



	P10-70	P10-70...D01/D02	
1	Phase U	Phase U	red
2	Protective Earth	Protective Earth	yellow-green
3	Phase W	Phase W	green
4	Phase V	Phase V	blue
A	n.c.	n.c.	-
B	n.c.	n.c.	-
C	n.c.	n.c.	-
D	n.c.	n.c.	-

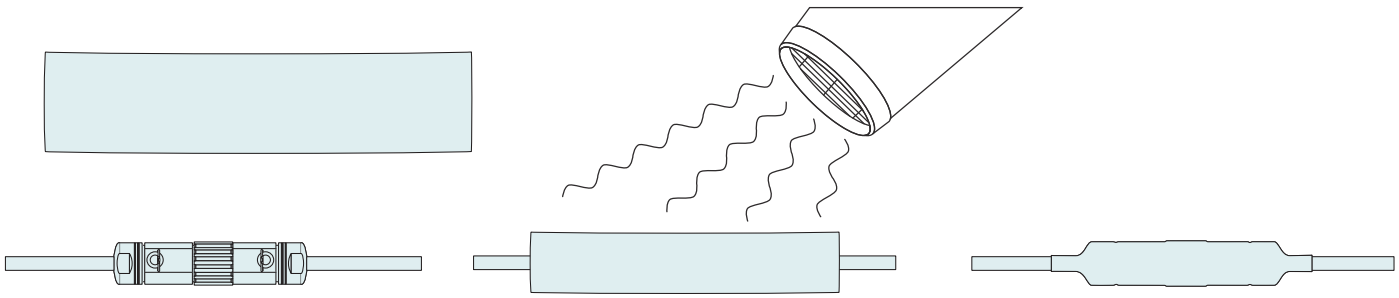
MC10-Q/f



	P10-70...D03	
1	Phase U	red (previously: black 1)
2	Protective Earth	yellow-green
3	Phase W	green (previously: black 3)
4	Phase V	blue (previously: black 2)
A	KTY+	purple (previously: black 5)
B	KTY-	grey (previously: black 6)
C	n.c.	yellow (previously: black 7)
D	n.c.	brown (previously: black 8)

Item	Description	Item-No.
MC10-Q/m	Connector Power PS10-70/m	0160-2405
MC10-Q/m-as (assembled)	Connector Power PS10-70/m assembled	0160-2406
MC10-Q/f	Connector Power PS10-70	0160-2268
MC10-Q/f-as (assembled)	Connector Power PS10-70 assembled	0160-2329

SHRINK TUBING FOR IP67 CONNECTOR



Item		Material	Item-No.
MCP01-18	Shrink tubing (with hot glue coating) for additional protection of IP67 connectors	Polyolefin	0150-3089

ACCESSORIES LINEAR MOTORS P01 / P02

- Motor flanges for mounting LinMot motors
- Fans to increase effectiveness of the linear motor
- Slider mounting kits to mount sliders easily
- Replaceable bearings
- Wipers for use in difficult environmental conditions
- External position sensor for high-precision tasks

ACCESSORIES LINEAR MOTORS P01 / P02

Motor Flanges

LinMot PF motor flanges enable easy mounting of linear motors. The clamping plate design enables quick assembly and disassembly of the linear motors without disassembling the flange.

A matching flange of the correct length is available for every family of linear motors. This not only ensures secure mechanical mounting, but also guarantees optimal cooling of the linear motor.

Motor with flange and fan

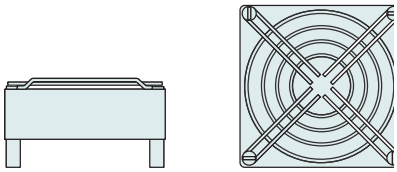
STATOR AND FLANGE MOUNTING

The same flange is used for stators with a cable output or a plug housing. The stator is secured in the flanges by means of clamping screws, so that the stator is clamped over a large surface area.

Clamping over a large surface area, practically the entire length of the stator, and the cooling fins on the flange, ensure optimal cooling of the linear motor.

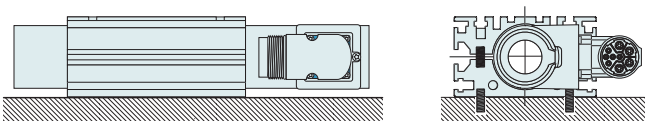
Depending on the application and available space, the flanges can be installed horizontally with screws or vertically by means of the T-slots provided.

FAN OPTION

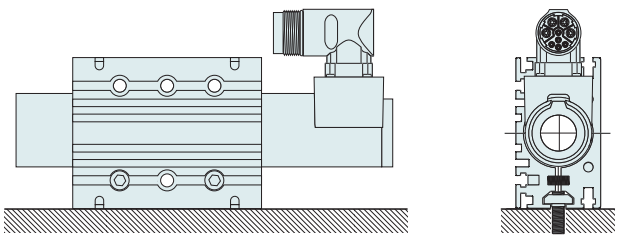


The optional fan can nearly double the effective force of the linear motor.

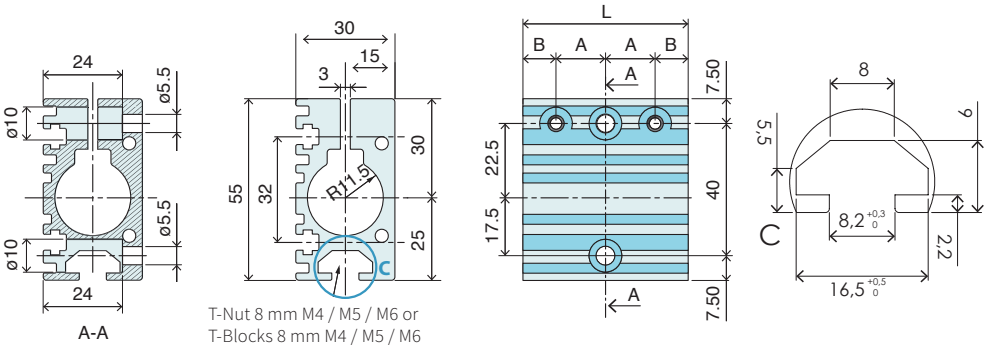
MOUNTING WITH SCREWHOLES



MOUNTING WITH T-NUT



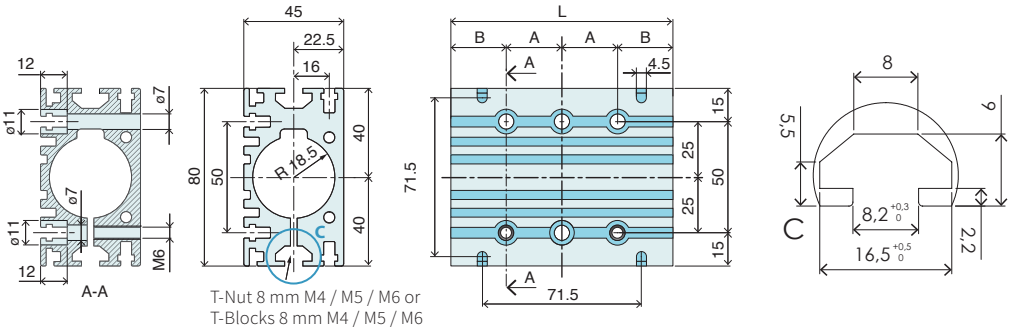
PF02-23



Max. torque for clamp plate screws: 4Nm

Item	Description	Stator type	L [mm]	A [mm]	B [mm]	Weight [g]	Item-No.
PF02-23x50	Flange 23x50 mm	P01-23x80	50	15	10	115	0150-2102
PF02-23x120	Flange 23x120 mm	P01-23x160	120	30	30	280	0150-2103
PF02-23x170	Flange 23x170 mm	P01-23x160	170	45	40	390	0150-2117
PF02-23 Flange profile	PF02-23 Flange profile per m	P01-23x...	(-)	(-)	(-)	(-)	0150-2101

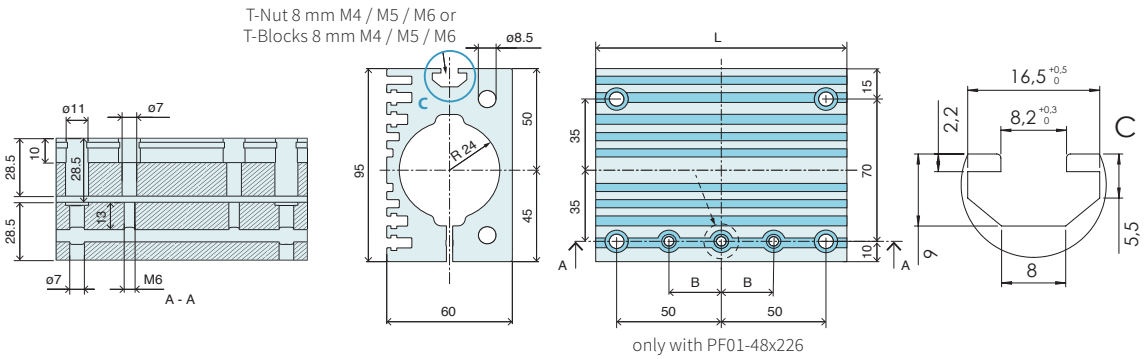
PF02-37



Max. torque for clamp plate screws: 8Nm

Item	Description	Stator type	L [mm]	A [mm]	B [mm]	Weight [g]	Item-No.
PF02-37x100	Flange 37x100 mm	P01-37x120	100	25	25	450	0150-1998
PF02-37x140	Flange 37x140 mm	P01-37x120	140	50	20	630	0150-2105
PF02-37x200	Flange 37x200 mm	P01-37x240	200	50	50	920	0150-1999
PF02-37 Flange profile	PF02-37 Flange profile per M	P01-37x...	(-)	(-)	(-)	(-)	0150-1997

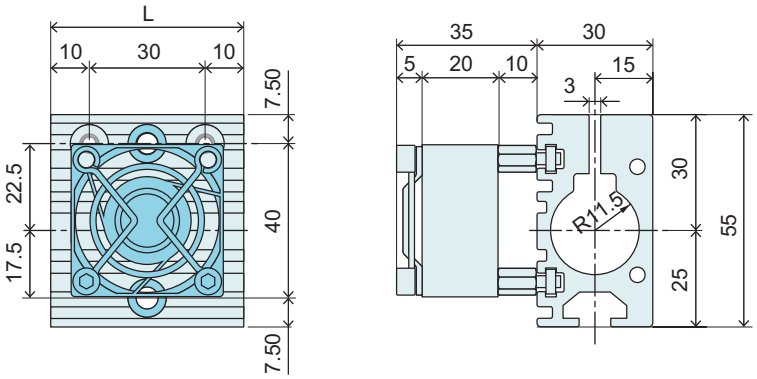
PF01-48



Max. torque for clamp plate screws: 12Nm

Item	Description	Stator type	L [mm]	B [mm]	Weight [g]	Item-No.
PF01-48x120	Flange 48x120 mm	P01-48x240	120	25	970	0150-1976
PF01-48x226	Flange 48x226 mm	P01-48x240	226	85	1850	0150-2108
PF01-48 Flange profile	PF01-48 Flange profile per M	P01-48x...	(-)	(-)	(-)	0150-2104

OPTIONAL FAN FOR PF02-23

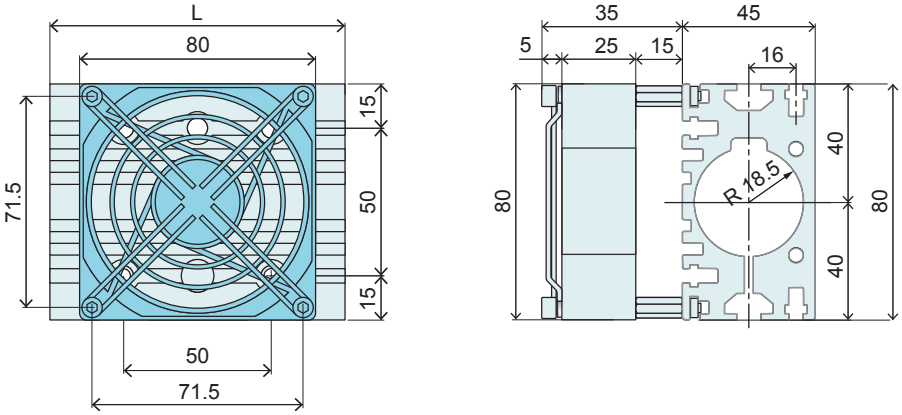


Fan supply:
24VDC, 70mA

Air flow:
15m³/h

Item	Description	Item-No.
HV01-23	Fan kit for H01-23 and PF02-23	0150-5050

OPTIONAL FAN FOR PF02-37

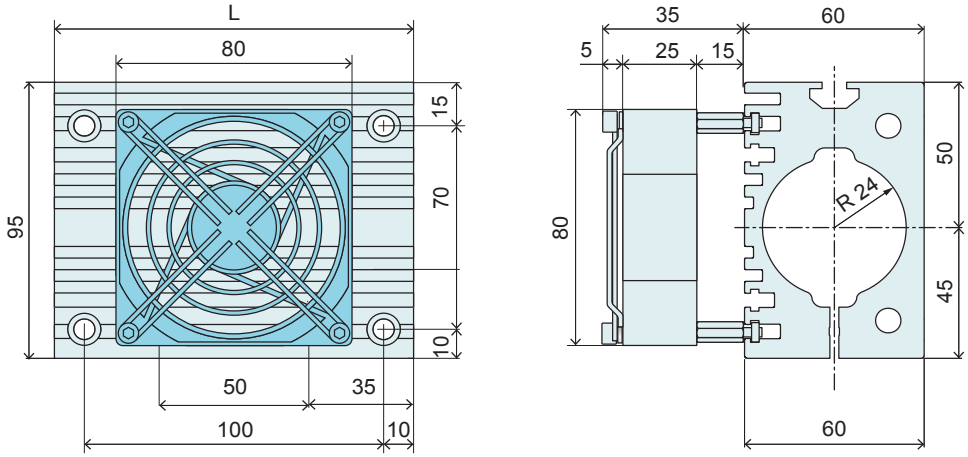


Fan supply:
24VDC, 120mA

Air flow:
80m³/h

Item	Description	Item-No.
HV01-37/48	Fan kit for H01-37, B01-37 and PF02-37	0150-5051

OPTIONAL FAN FOR PF01-48

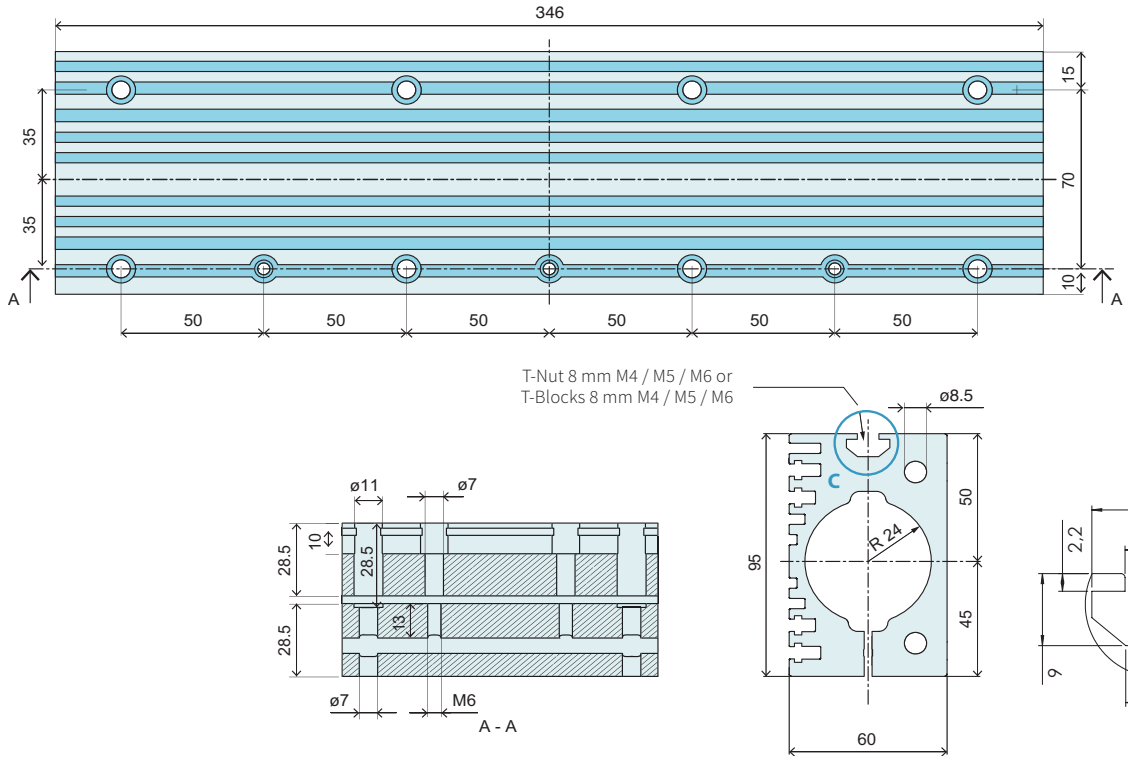


Fan supply:
24VDC, 120mA

Air flow:
80m³/h

Item	Description	Item-No.
HV01-37/48	Fan kit for H01-48, B01-48 and PF01-48	0150-5051

PF01-48



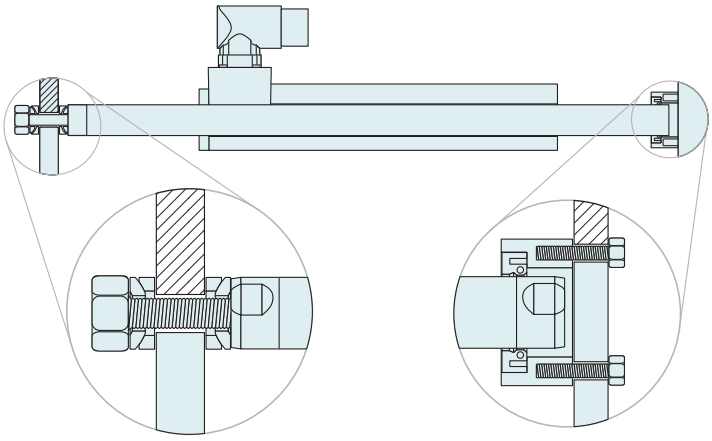
Item	Description	Stator type	L [mm]	B [mm]	Weight [g]	Item-No.
PF01-48x346	Flange 48x346 mm	P01-48x360	346	85	2840	0150-2145

Slider Mounting

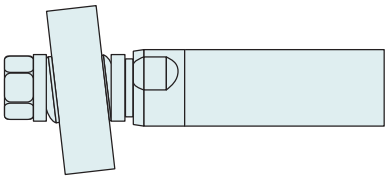
Depending on the application, LinMot linear motors can be operated with a "moving Slider" or "moving stator." Applications with short stroke ranges are preferably implemented with moving sliders; applications with long strokes are better with a moving stator. In both cases, LinMot recommends the use of special mounting kits for mounting the Slider, in order to avoid overdetermining the mount.

In moving Slider applications, the stator is mounted, and the Slider is connected to a load that is guided by a linear guide. In order to avoid alignment errors, the Slider is attached to the load or guide using fixed bearings, each consisting of two rounded washers and two bevel washers.

In moving stator applications, the Slider is mounted and the stator is attached to a linear guide, together with the load. In order to avoid overdetermining the Slider bearing, one end of the Slider is mounted on a fixed bearing, and the other on a floating bearing.

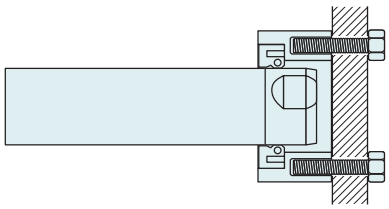


FIXED BEARING



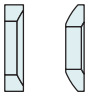
The fixed bearing consists of two rounded washers and two bevel washers. It compensates for angular and axial deflection.

FLOATING BEARING

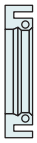


The Slider is mounted in a rubber ring as a floating bearing. The floating bearing compensates for angular and axial displacement and length tolerance.

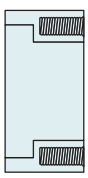
MATERIAL



Rounded and bevel washers:
Stainless steel, case-hardened steel or nickel plated

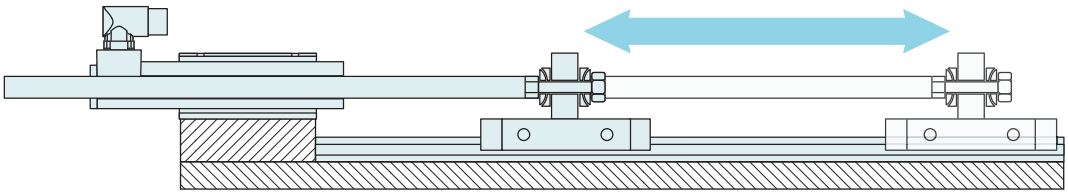


Bearing:
NBR
(Nitrile-Butadiene-Rubber with DIN17223 spring steel)



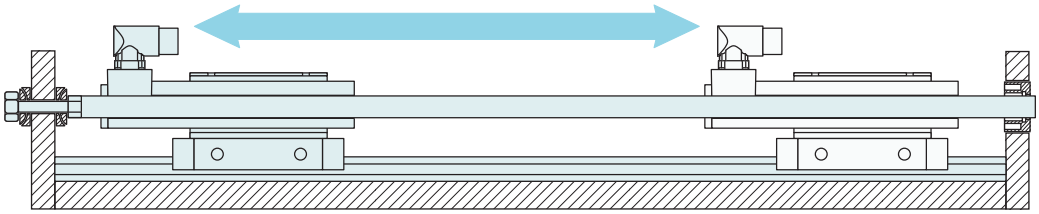
Housing:
Stainless steel 1.4305

MOVING SLIDER



Fixed bearing

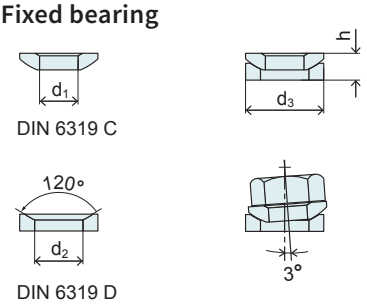
MOVING STATOR



Fixed bearing Floating bearing

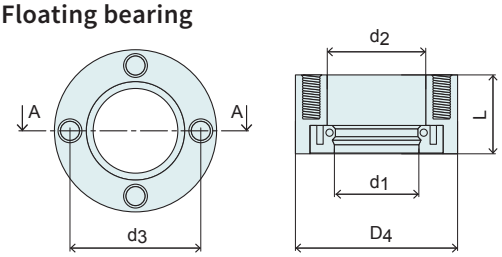
DIMENSIONS AND ORDERING INFORMATION

Fixed bearing



Item	Material	Slider	Thread	d1	d2	d3	h
PLF01-12 **PLF01-12-Ni**	Steel case hardened Steel nickel plated	12 mm	M5	5.2 mm (0,20 in)	6.0 mm (0.24 in)	10.5 mm (0,41 in)	3.2 mm (0.13 in)
PLF01-20 **PLF01-20-SS**	Steel case hardened Stainless steel 1.4301	19/20 mm	M8	8.4 mm (0.33 in)	9.6 mm (0.38 in)	17 mm (0.67 in)	5.5 mm (0.22 in)
PLF01-28 **PLF01-28-SS**	Steel case hardened Stainless steel 1.4301	27/28 mm	M10	10.5 mm (0.41 in)	12 mm (0.47 in)	21 mm (0.83 in)	6.5 mm (0.26 in)

Floating bearing



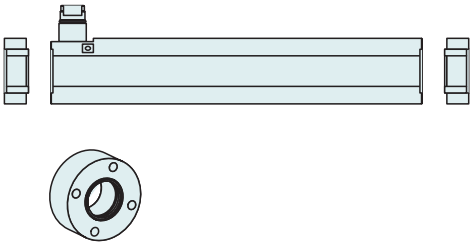
Item	Slider	Thread	d1	d2	d3	d4	L
PLL02-12	12 mm	-	12 mm (0,47 in)	Rubber ring	- -	22 mm H8 (0.87 in)	7.0 mm (0.28 in)
PLL01-19	19 mm	M5	19 mm (0.75 in)	23 mm (0.90 in)	30 mm (1.18 in)	37 mm (1.46 in)	20 mm (0.79 in)
PLL01-20	20 mm	M5	20 mm (0.79 in)	23 mm (0.90 in)	30 mm (1.18 in)	37 mm (1.46 in)	20 mm (0.79 in)
PLL01-27	27 mm	M5	27 mm (1.06 in)	32 mm (1.26 in)	40 mm (1.57 in)	48 mm (1.89 in)	20 mm (0.79 in)
PLL01-28	28 mm	M5	28 mm (1.10 in)	32 mm (1.26 in)	40 mm (1.57 in)	48 mm (1.89 in)	20 mm (0.79 in)

Item	Description	Item-No.
PLF01-12	Fixed bearing for 12 mm Slider	0150-3085
PLF01-12-Ni	Fixed bearing for 12 mm Slider, nickel plated	0150-3573
PLF01-20	Fixed bearing for 19 mm and 20 mm Slider	0150-3083
PLF01-20-SS	Fixed End Washer Set for 19/20 mm sliders, stainless steel	0150-3296
PLF01-28	Fixed End Washer Set for 27/28 mm sliders	0150-3087
PLF01-28-SS	Fixed End Washer Set for 27/28 mm sliders, stainless steel	0150-3297
PLL02-12	Floating bearing for PL01-12 Slider, Mat. 1.4305 /AISI 303	0150-3111
PLL01-19	Floating bearing for PL01-19 Slider, Mat. 1.4305 /AISI 303	0150-3335
PLL01-20	Floating bearing for PL01-20 Slider, Mat. 1.4305 /AISI 303	0150-3084
PLL01-27	Floating bearing for PL01-27 Slider, Mat. 1.4305 /AISI 303	0150-3294
PLL01-28	Floating bearing for PL01-28 Slider, Mat. 1.4305 /AISI 303	0150-3094
PLM01-20-MK	Mounting kit for PL01-20 Slider	0150-3079
PLM01-28-MK	Mounting kit for PL01-28 Slider	0150-3095

Bearing kits

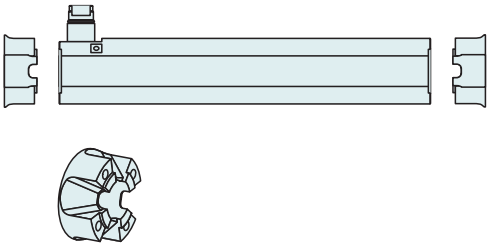
Linear motors in the INOX and ATEX model series are used under challenging conditions. For fast, uncomplicated maintenance, these types of motors are equipped with replaceable slider bearings. Two types of bearings are available. One is a stainless steel version and the other is a plastic bearing.

STAINLESS STEEL BEARINGS



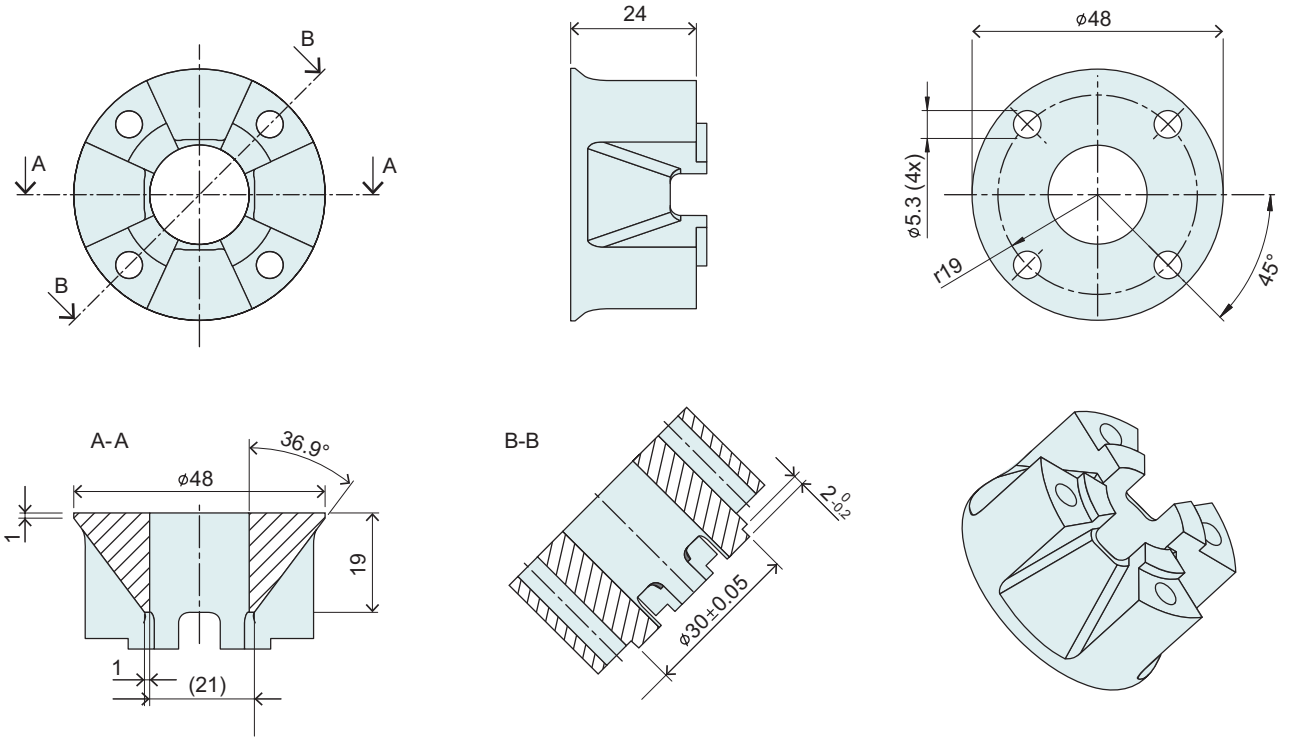
Stainless steel bearings are simply attached to the stator with 4 socket head cap screws. The integrated plastic sleeves guarantee optimal support and guidance for the slider.

WD BEARINGS

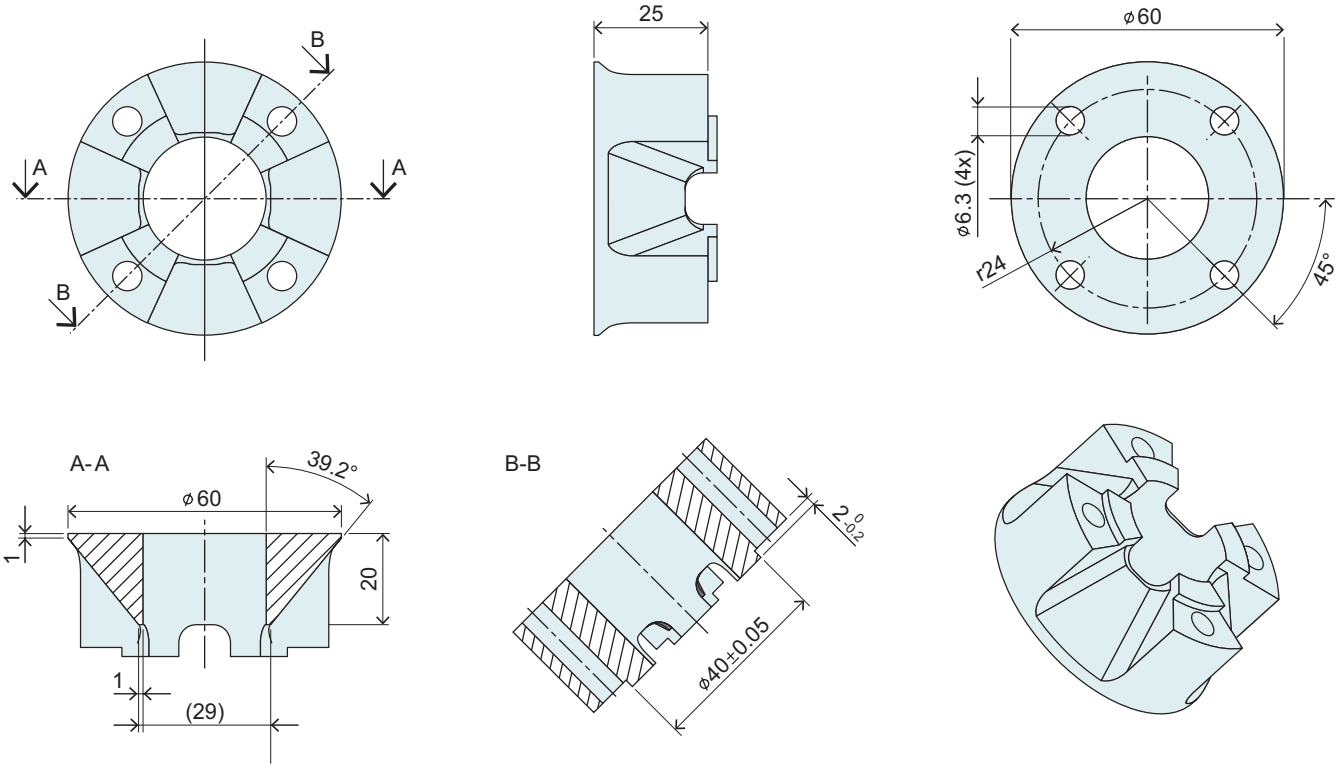


This type of bearing is made of solid plastic and is designed for use in wash-down applications for food production. Food residues can be removed without a trace.

PB02-37x24-P-WD



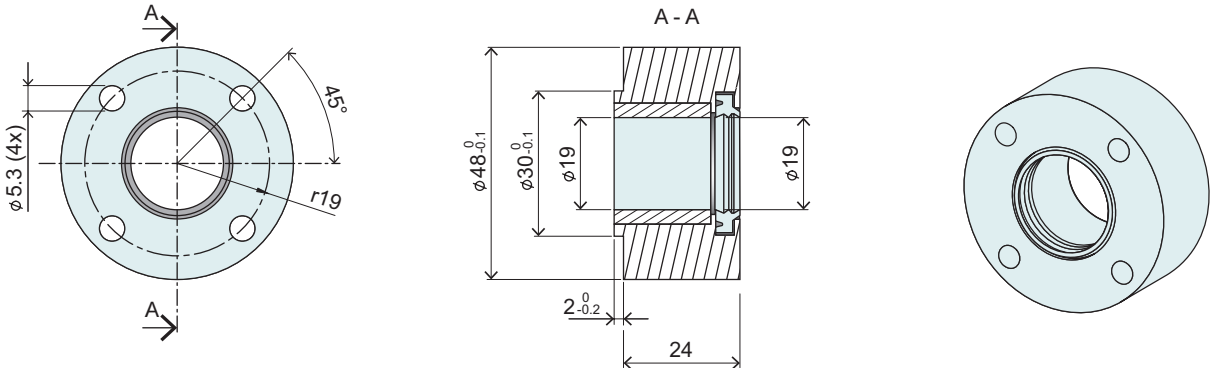
PB02-48x25-P-WD



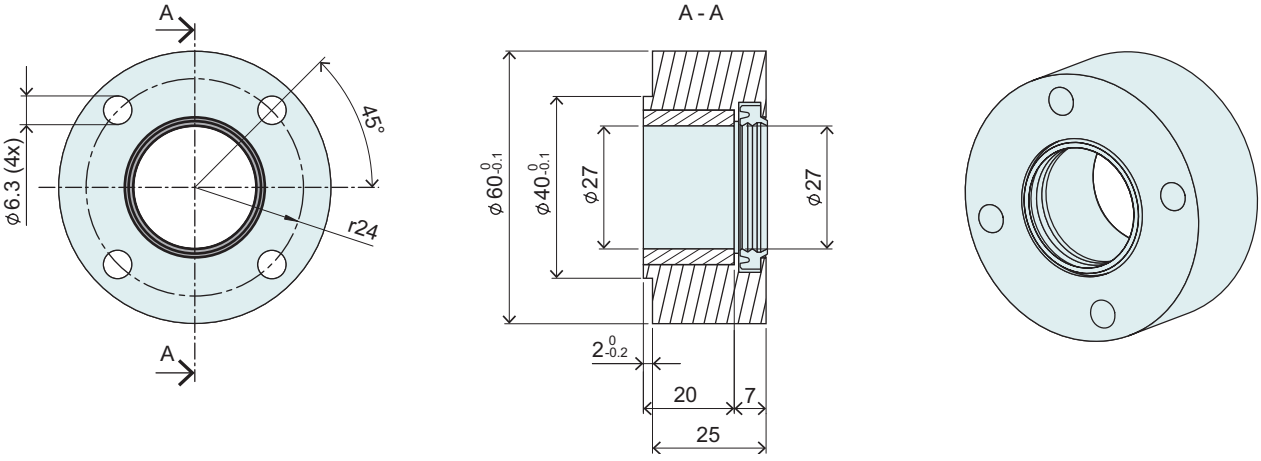
ORDERING INFORMATION

Item	Description	Item-No.
PB02-37x24-P-WD	Plain Bearing for PS01-37x...-SSC (synthetical, FDA materials)	0150-3299
PB02-48x25-P-WD	Plain Bearing for PS01-48x...-SSC (synthetical, FDA materials)	0150-3271

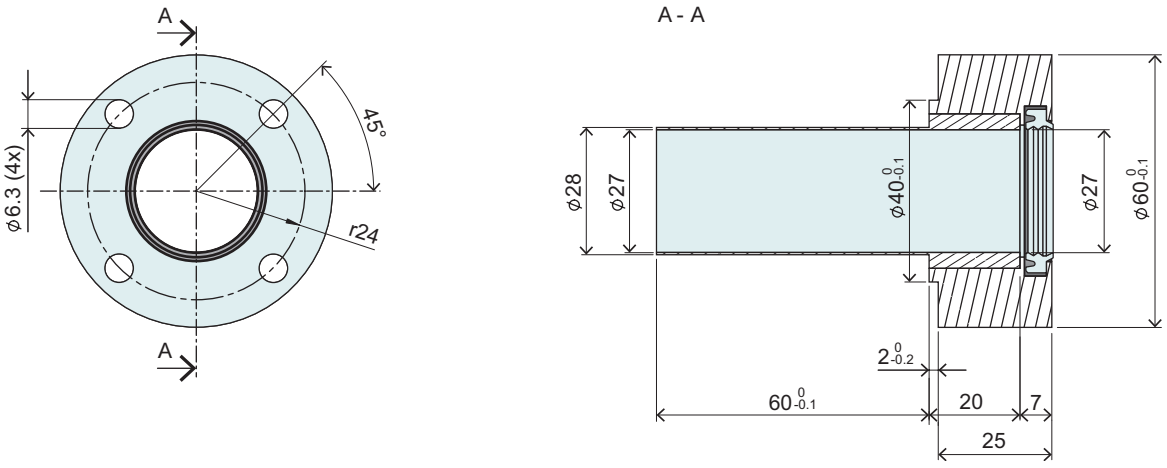
PB01-37x24-P-SSC



PB01-48x25-P-SSC



PB01-48x25-80-P-SSC



ORDERING INFORMATION

Item	Description	Item-No.
PB01-37x24-P-SSC	Plain Bearing for PS01-37x120...-SSC (synthetical, FDA materials)	0150-3290
PB01-48x25-P-SSC	Plain Bearing for PS01-48x240...-SSC (synthetical, FDA materials)	0150-3281
PB01-48x25-80-P-SSC	Plain Bearing for PS01-48x360...-SSC (synthetical, FDA materials)	0150-3413

Wipers

LinMot stators can be equipped with wipers as an option. Wipers increase maintenance intervals and allow simple relubrication using a grease gun with the integrated lubrication nipple. The wipers also keep grease and dirt off of the slider and protect the stator from contamination.

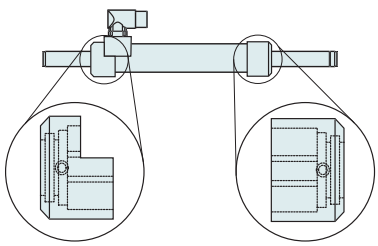
INSTALLATION

The wipers are slid onto the front or rear end of the stator and attached to the stator with two clamping screws.

The installation space required for the stator increases in length by 12 mm or 14 mm for each wiper.

Make sure that the end of the slider does not go past the wiper during operation.

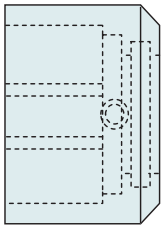
WIPERS



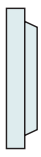
Rear wiper

Front wiper

MATERIAL

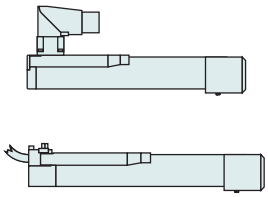


Housing: POM

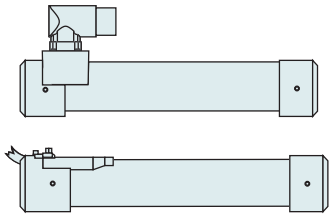


Wipers: H-PU

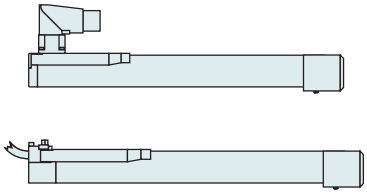
AVAILABLE WIPERS



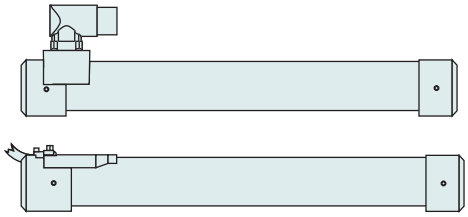
P01-23x80



P01-37x120



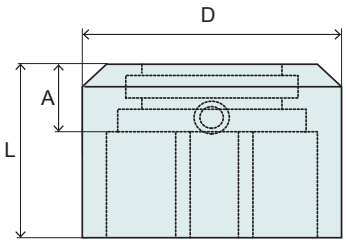
P01-23x160



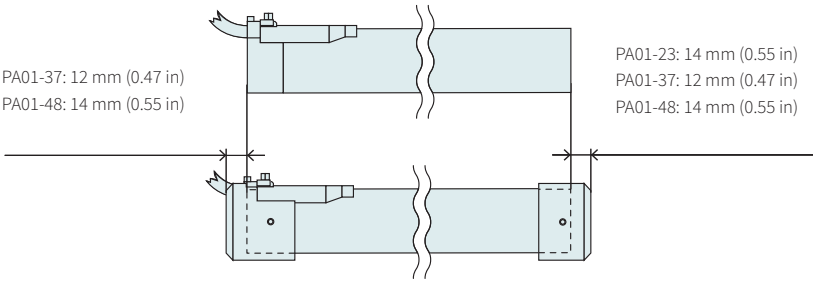
P01-37x240

P01-48x240

DIMENSIONS AND ORDERING INFORMATION



Item	D	L	A	Weight
PA01-23	29 mm (1.14 in)	33 mm (1.30 in)	14 mm (0.55 in)	0.014 kg
PA01-37	45 mm (1.77 in)	32 mm (1.26 in)	12 mm (0.47 in)	0.028 kg
PA01-37R	45 mm (1.77 in)	37 mm (1.45 in)	12 mm (0.47 in)	0.026 kg
PA01-37R Cable	45 mm (1.77in)	40 mm (1.57 in)	12 mm (0.47 in)	0.030 kg
PA01-48	58 mm (2.28 in)	32 mm (1.26 in)	14 mm (0.55 in)	0.056 kg
PA01-48R	58 mm (2.28 in)	38.5 mm (1.52 in)	14 mm (0.55 in)	0.050 kg



Item	Description	Item-No.
PA01-23/12-F-2	Wipers for PS01-23x... (front wiper)	0150-3293
PA01-37/19-F	Wipers for PS01-37x... (front wiper for high clearance sliders)	0150-3225
PA01-37/19-R	Wipers for PS01-37x...-(-C rear wiper for high clearance sliders)	0150-3226
PA01-37/19-R cable	Wipers for PS01-37x... (cable rear wiper for high clearance sliders)	0150-3227
PA01-37/20-F	Wipers for PS01-37x... (front wiper)	0150-3126
PA01-37/20-R	Wipers for PS01-37x...(-C rear wiper)	0150-3201
PA01-37/20-R cable	Wipers for PS01-37x...-(cable rear wiper)	0150-3221
PA01-48/27-F	Wipers for PS01-48x... (front wiper for high clearance sliders)	0150-3228
PA01-48/27-R	Wipers for PS01-48x...-(-C rear wiper for high clearance sliders)	0150-3229
PA01-48/28-F	Wipers for PS01-48x... (front wiper)	0150-3127
PA01-48/28-R	Wipers for PS01-48x... (-C rear wiper)	0150-3202

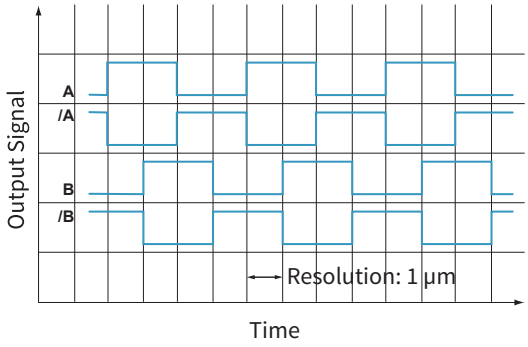
External Position Sensor

Non-contacting measuring position sensors, using magnets with integrated processing electronics and differential encoder outputs for the LinMot Servo Drives.

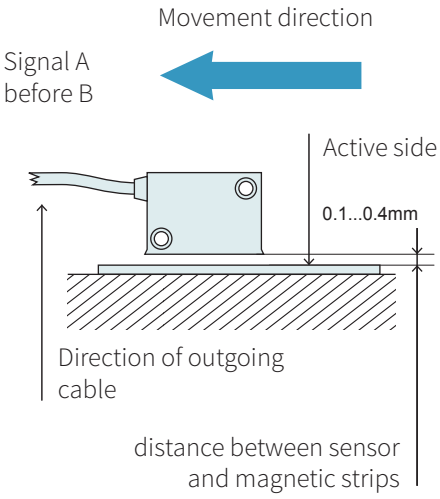
Together with the MB01-1000 magnetic band , the MS01/D position sensor is part of a high-resolution, robust, linear measurement system.

Features:

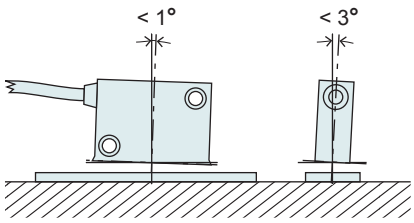
- Simple installation, by sticking on the magnetic band
- IP67 protection class, not sensitive to dust, moisture, or dirt
- Status display with LEDs directly at the sensor head
- Highest precision-
  Resolution 0.001 mm
  - System accuracy ±0.01 mm
- Allows high travel speeds of up to 3 m/s



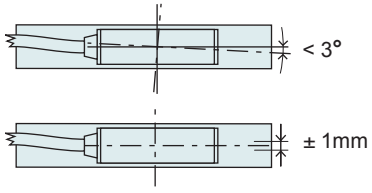
COUNTING DIRECTION



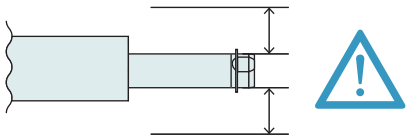
INSTALLATION



Maximum alignment error



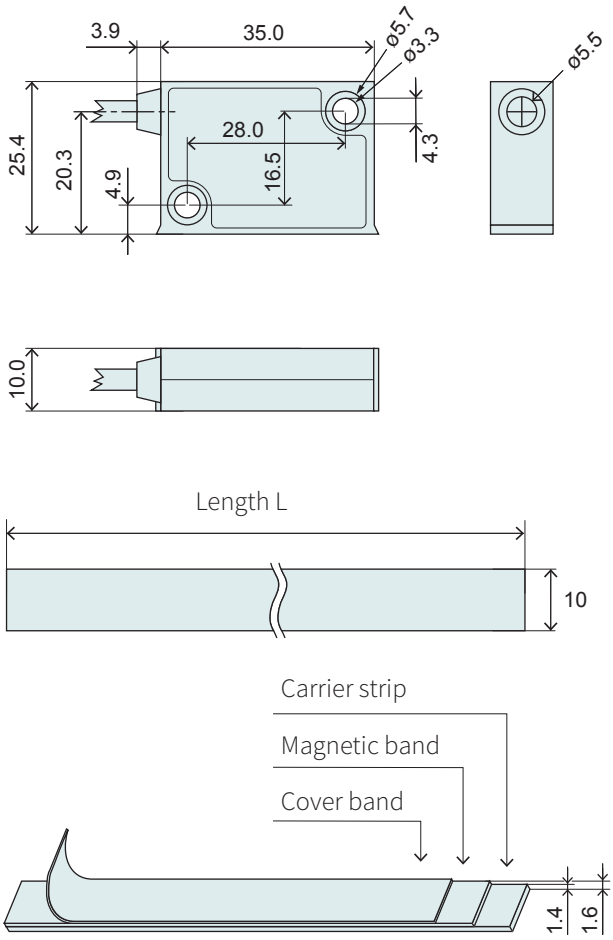
MINIMUM DISTANCE FROM SLIDER



In order to rule out influence of the magnetic LinMot slider on the position measurement, the following minimal distances to the magnetic strip should be observed:

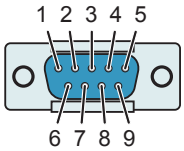
Linear Motor:	Minimum distance:
P01-23...	30 mm
P01-37...	40 mm
P01-48...	60 mm
P10-54...	60 mm
P10-70...	50 mm

DIMENSIONS



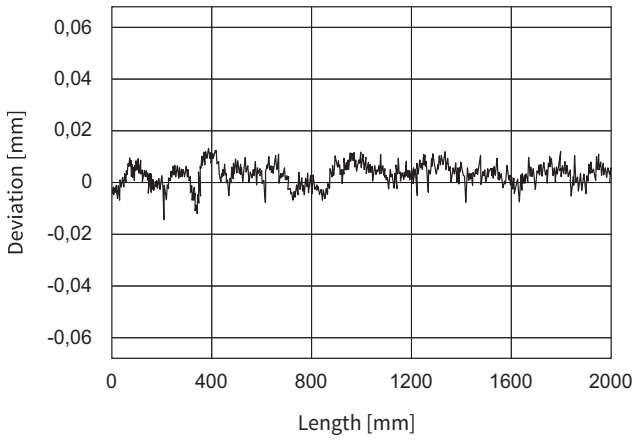
Cable	
Cable length	2 m, High Flex, PUR
Connector type	Dsub-9 (male)

Connector wiring



Pin 1	+5VDC
Pin 2	Kanal /A
Pin 3	Kanal /B
Pin 5	GND
Pin 6	Kanal A
Pin 7	Kanal B
Pin 4, 8, 9	n.c.

Technical data magnetic band	
Order length	maximal stroke +3.0 cm
Width	10 mm
Carrier material	Spring steel band
Precision class	± 10 µm/m
Temperature coefficient	(11 ± 1) x 10-6 / °K
Storage temperature range	-20...70°C
Storage temperature range	-40...70°C
Protection class	IP 67
Mounting	Self adhesive magnetic band



ORDERING INFORMATION

Item	Description	Item-No.
MS01-1/D	Linear Encoder 1µm, A/B(for incremental strip)	0150-1840
MB01-1000	Magnetic incremental strip for MS01-1/D, per cm	0150-1963
KS025-D/D-Encoder	Encoder Cable, High Flex (Length in m)	0150-3166
KS025-D15/D-Encoder	Encoder Cable, High Flex (Length in m)	0150-3168

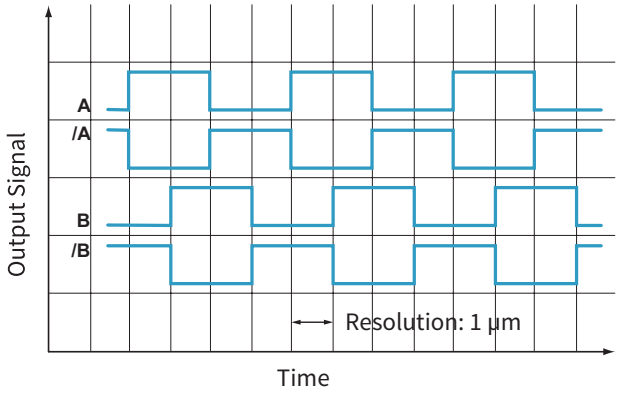
External Position Sensor
MS01-1/D-SSI

Non-contacting measuring position sensors, using magnets with integrated processing electronics for servo drives series C and E. The absolute position value can be read from an upstream control unit with a resolution of 5mm via encoder interface. In addition, an incremental interface with quadrature signals in various reso- lutions is available as an option.

Together with the MB01-1000-ABS magnetic band, the MS01/D-SSI position sensor is part of a high-resolution, robust, linear measurement system.

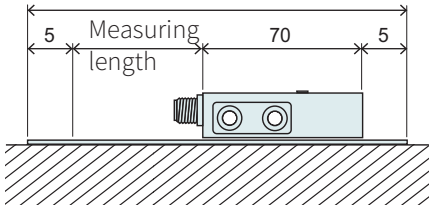
Features:

- Max. resolution::
  5 µm absolute, 1 µm incremental
- Repeatability 0.005 mm
- Output circuit SSI, RS485 (absolute), LD (incremental)
- Reading distance/Strip max. 1.3 mm
- Max. measuring length 10.24 m
- Status-LEDs for Diagnosis
- IP67 protection class, not sensitive to dust, moisture, or dirt

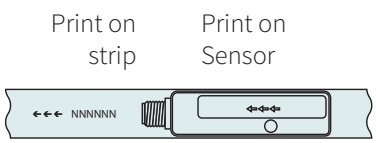


STRIP LENGTH AND COUNTING DIRECTION

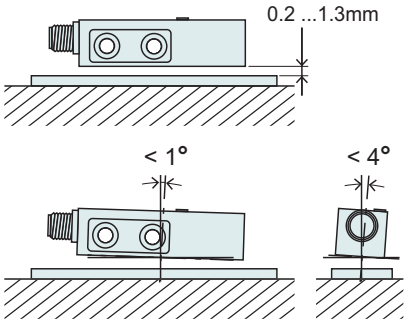
required strip length =
Measuring length + 80mm (min. 200 mm)



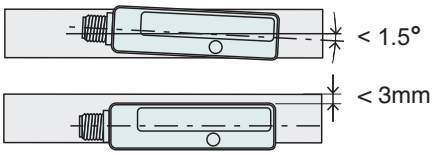
Direction of travel



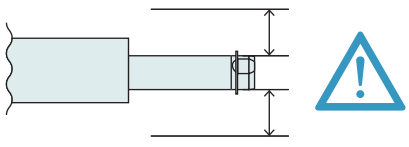
INSTALLATION



Maximum alignment error



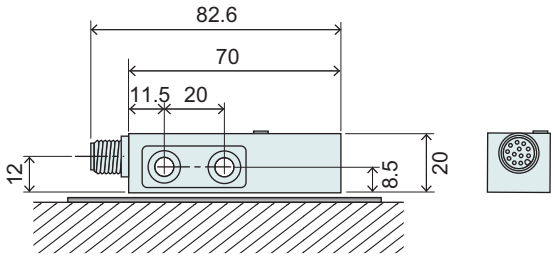
MINIMUM DISTANCE FROM SLIDER

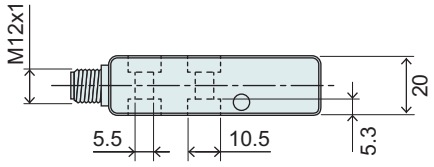


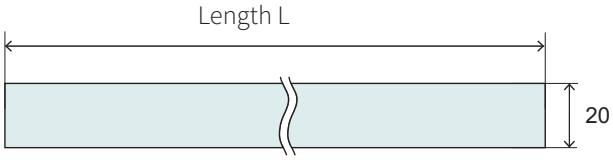
In order to rule out influence of the magnetic LinMot slider on the position measurement, the following minimal distances to the magnetic strip should be observed:

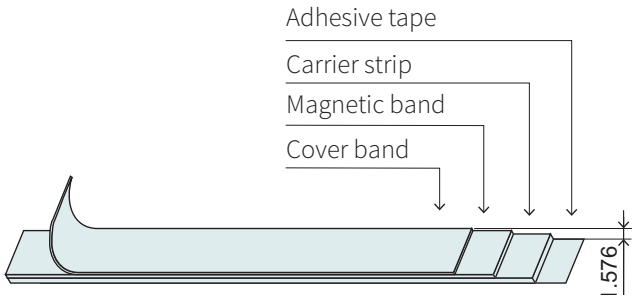
Linear Motor:	Minimum distance:
P01-23...	30 mm
P01-37...	40 mm
P01-48...	60 mm
P10-54...	60 mm
P10-70...	50 mm

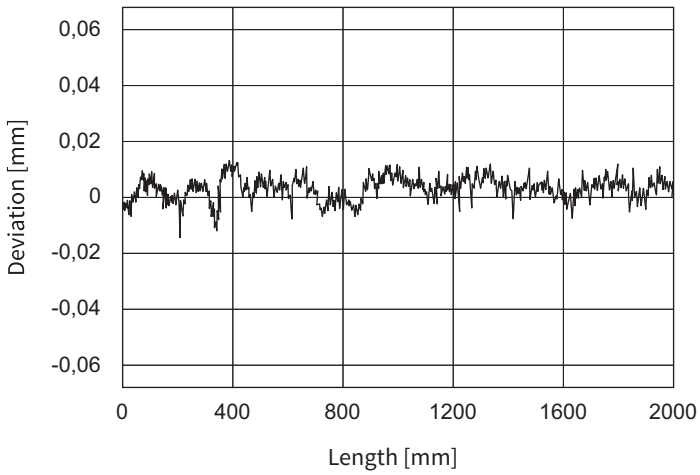
DIMENSIONS



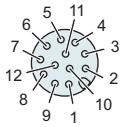


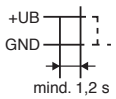






Connector wiring



Pin 1	nc		
Pin 2	D+		
Pin 3	D-		
Pin 4	T-		
Pin 5	+UB		
Pin 6	/A		
Pin 7	A		
Pin 8	/B		
Pin 9	B		
Pin 10	Config	GND	The sensor is in the SSI mode.
		+UB (while encoder suply is being turned on)	The sensor is in the boot loader mode for the first 10s (installing new firm-ware is enabled), then it changes over to the service mode.
			Setting of the position value to the calibration value (only if the sensor is in the SSI mode
Pin 11	T+		
Pin 12	OV		

Technical data magnetic band	
Order length	Measuring length +80 mm
Width	20 mm
Carrier material	Spring steel band
Precision class	± 50 µm at 20°C
Temperature coefficient	(11 ± 1) x 10^{-6} / °K
Storage temperature range	-20...70°C
Storage temperature range	-40...70°C
Protection class	IP 67
Mounting	Self adhesive magnetic band

ORDERING INFORMATION

Item	Description	Item-No.
MS01-1/D-SSI	Linear Encoder 1 µm, A/B (for absolute strip)	0150-2095
MB01-1000-ABS	Magnetic absolute strip, 1 mm Pitch, per cm	0150-2096
EC01-ABS/ENC-12-S	Special cable for MS01-1/D-SSI on C1100/C1200/C1400/E1200/E1400 Drives	0150-3616

ACCESSORIES
LINEAR MOTORS P10

- Motor flanges for mounting LinMot motors
- Fans to increase effectiveness of the linear motor
- Complete installation kits for replacing slider bearings
- External position sensor for high-precision tasks

ACCESSORIES LINEAR MOTORS P10

Motor Flanges

LinMot PF motor flanges enable easy mounting of linear motors. The clamping plate design enables quick assembly and disassembly of the linear motors without disassembling the flange.

A matching flange of the correct length is available for every family of linear motors. This not only ensures secure mechanical mounting, but also guarantees optimal cooling of the linear motor.

Flange

Flange with Fluid-Cooling

STATOR AND FLANGE MOUNTING

The same flange is used for stators with a cable output or a plug housing. The stator is secured in the flanges by means of clamping screws, so that the stator is clamped over a large surface area.

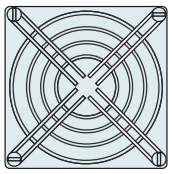
Clamping over a large surface area, practically the entire length of the stator, and the cooling fins on the flange, ensure optimal cooling of the linear motor.

Depending on the application and available space, the flanges can be installed horizontally with screws or vertically by means of the T-slots provided.

FLANGE WITH LIQUID COOLING

The heat losses generated in the motor are dissipated through the liquid cooling system. When the motor is operated with liquid cooling, the continuous rated power increases to a multiple of the self-cooled level.

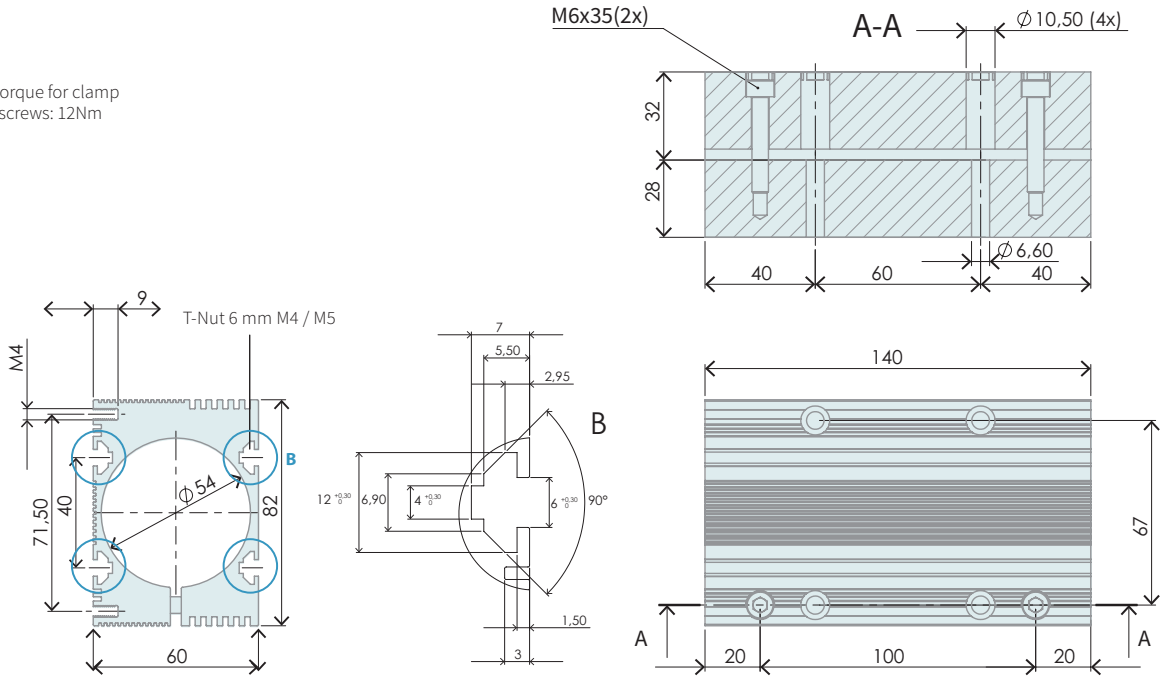
FAN OPTION



The optional fan can nearly double the effective force of the linear motor.

PF10-54x140

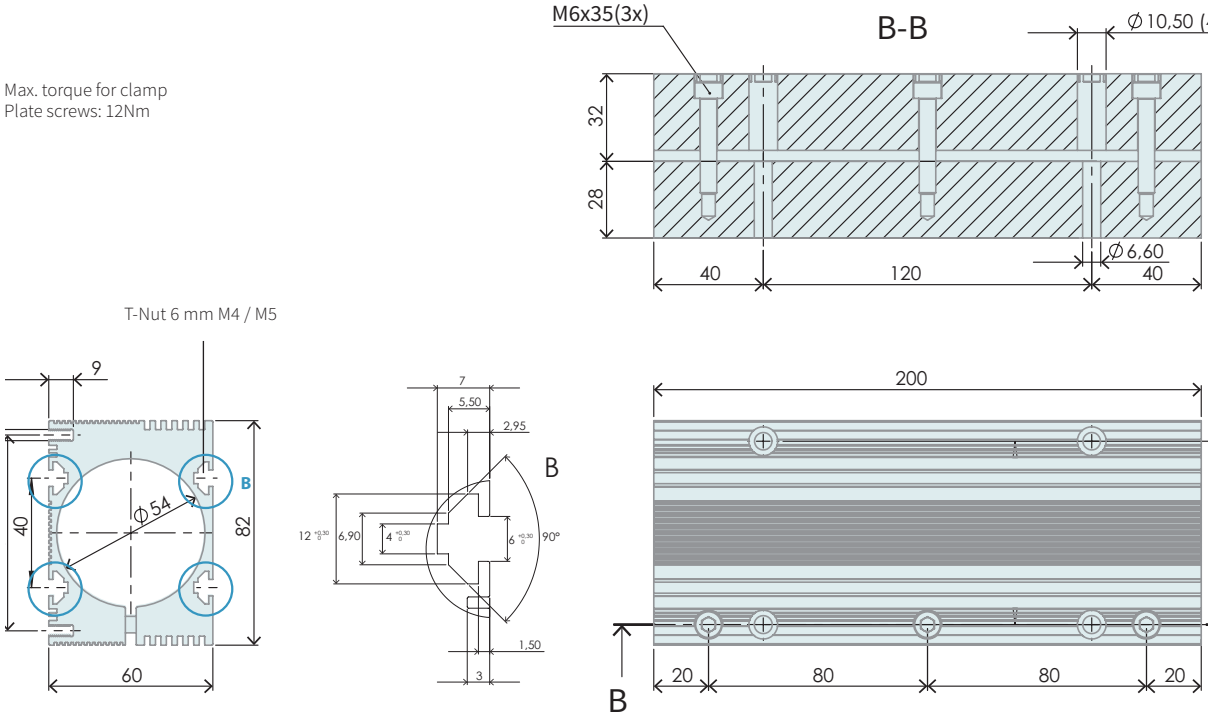
Max. torque for clamp
Plate screws: 12Nm



Item	Description	Stator type	Weight [g]	Item-No.
PF10-54x140	Flange for PS10-54x120	PS10-70x400	781	0150-2733

PF10-54x200

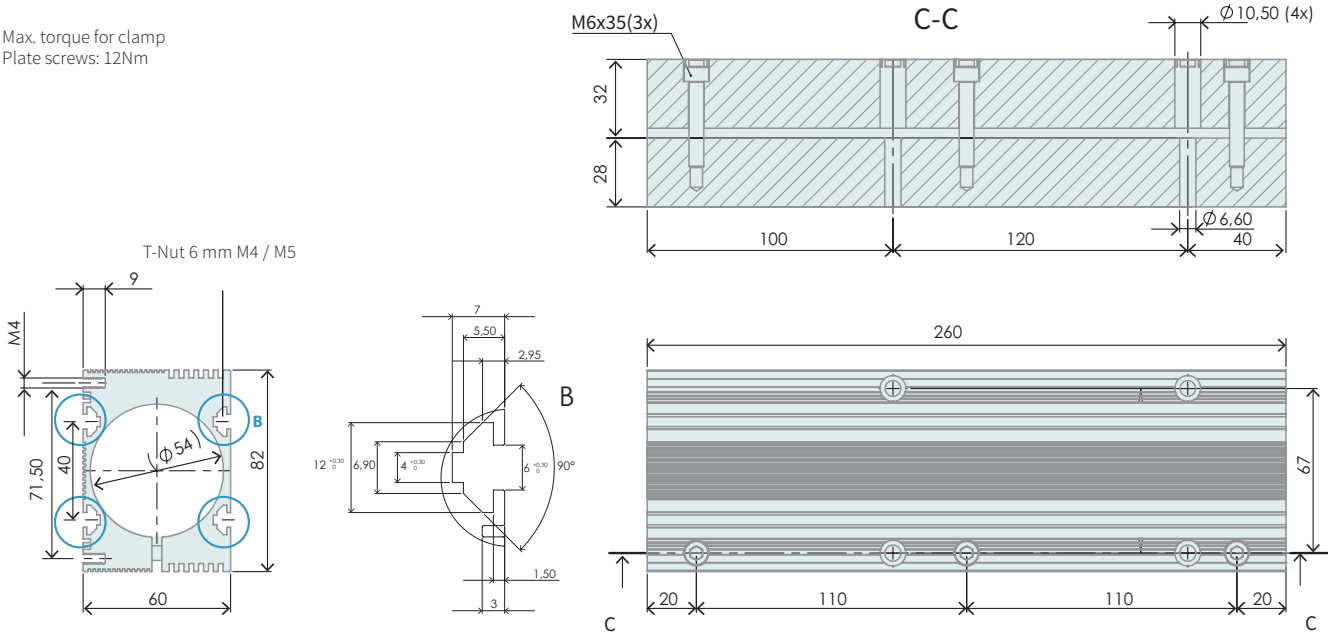
Max. torque for clamp
Plate screws: 12Nm



Item	Description	Stator type	Weight [g]	Item-No.
PF10-54x200	Flange for PS10-54x180	PS10-54x180	1132	0150-2734

PF10-54x260

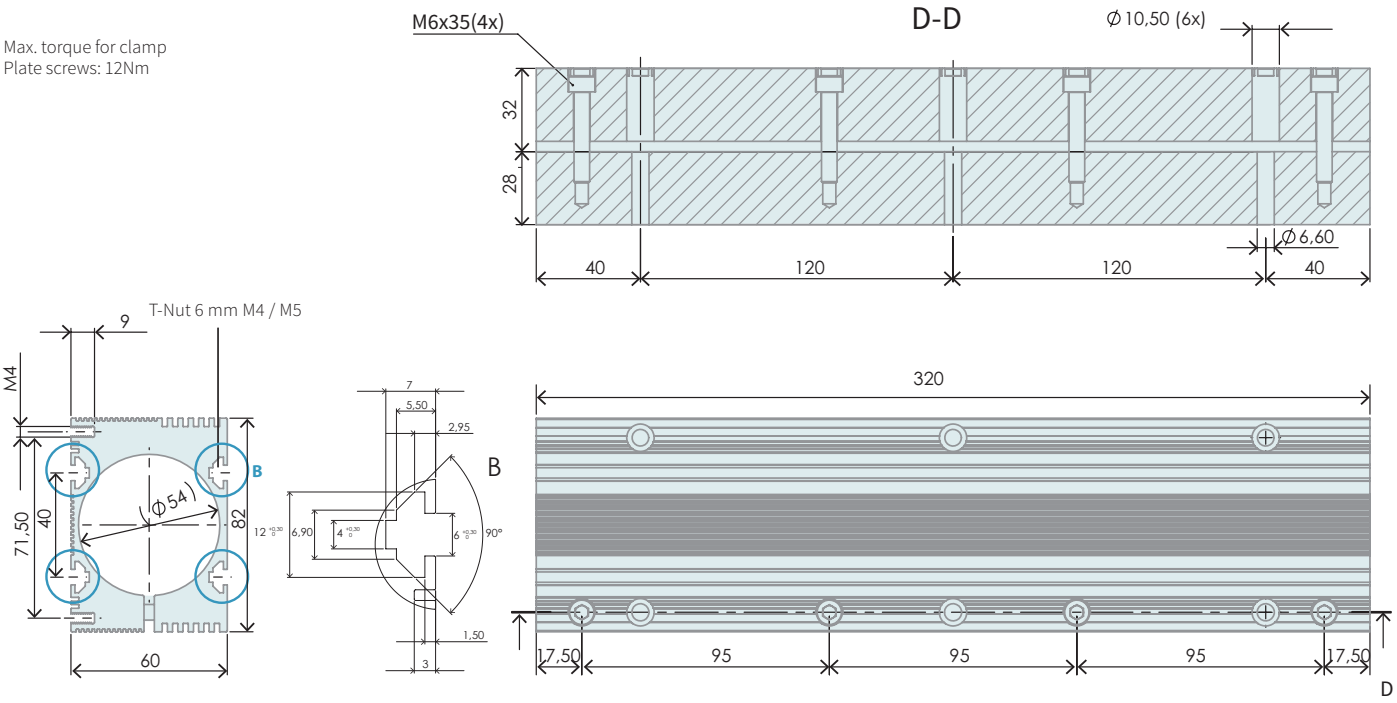
Max. torque for clamp
Plate screws: 12Nm



Item	Description	Stator type	Weight [g]	Item-No.
PF10-54x260	Flange for PS10-54x240	PS10-54x240	1475	0150-2735

PF10-54x320

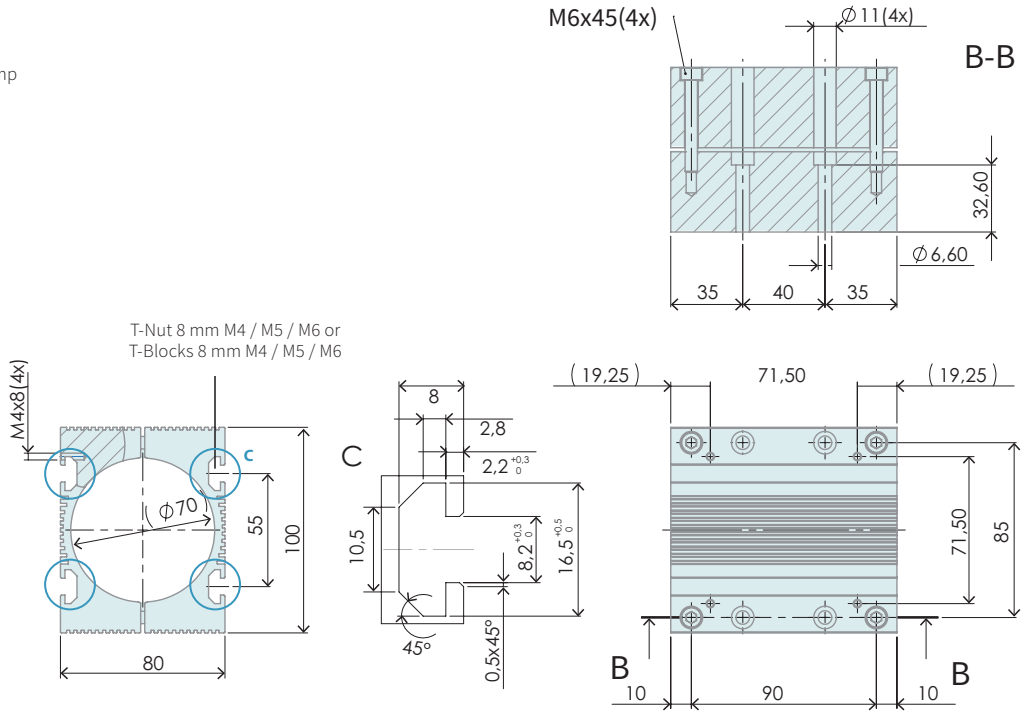
Max. torque for clamp
Plate screws: 12Nm



Item	Description	Stator type	Weight [g]	Item-No.
PF10-54x320	Flange for PS10-54x300	PS10-54x300	1809	0150-2736

PF10-70x110

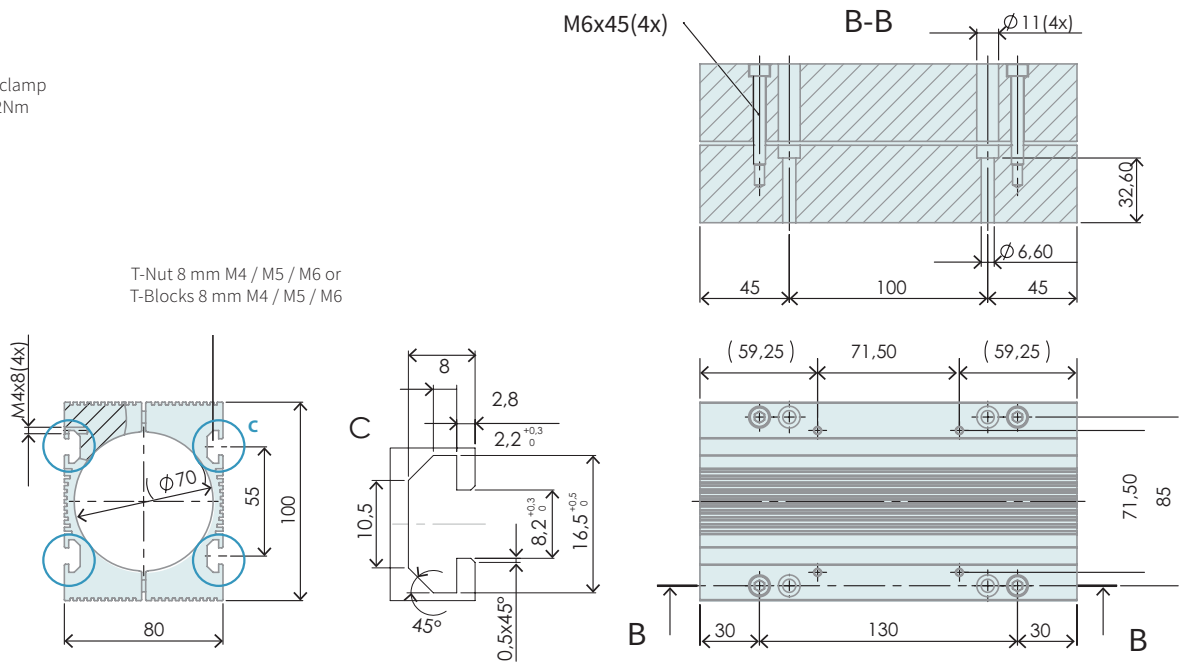
Max. torque for clamp
Plate screws: 12Nm



Item	Description	Stator type	Weight [g]	Item-No.
PF10-70x110	Flange for PS10-70x80	PS10-70x80	1015	0150-2272

PF10-70x190

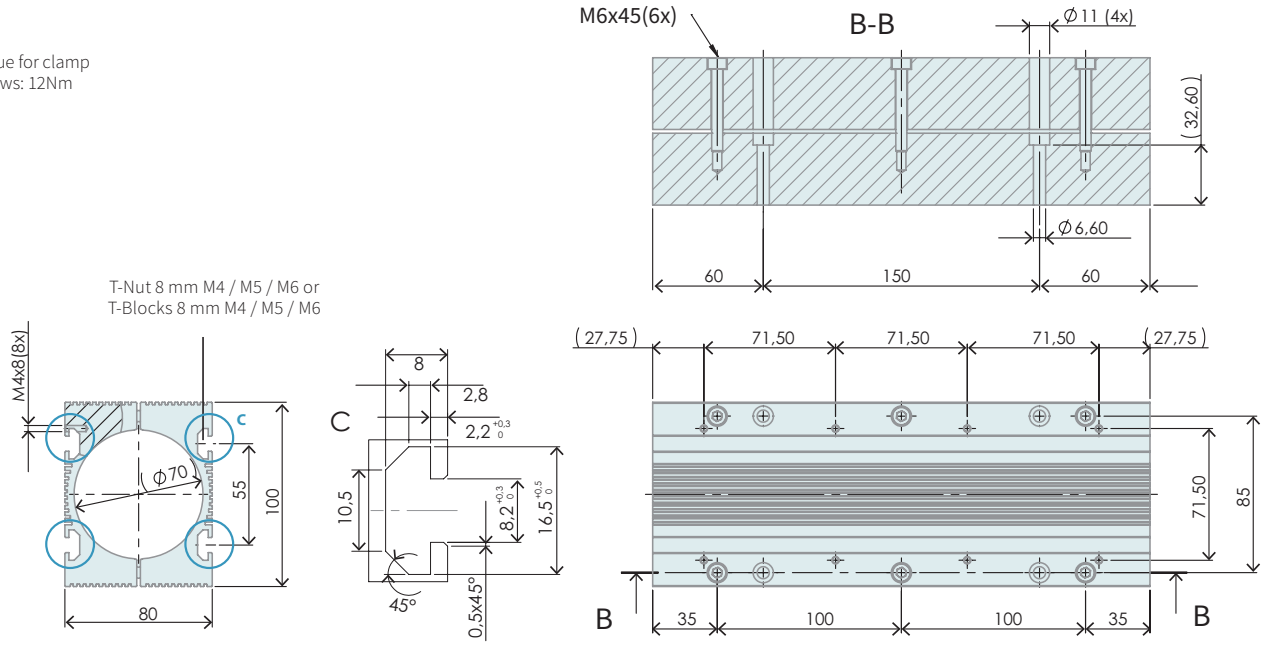
Max. torque for clamp
Plate screws: 12Nm



Item	Description	Stator type	Weight [g]	Item-No.
PF10-70x190	Flange for PS10-70x160	PS10-70x160	1776	0150-2273

PF10-70x270

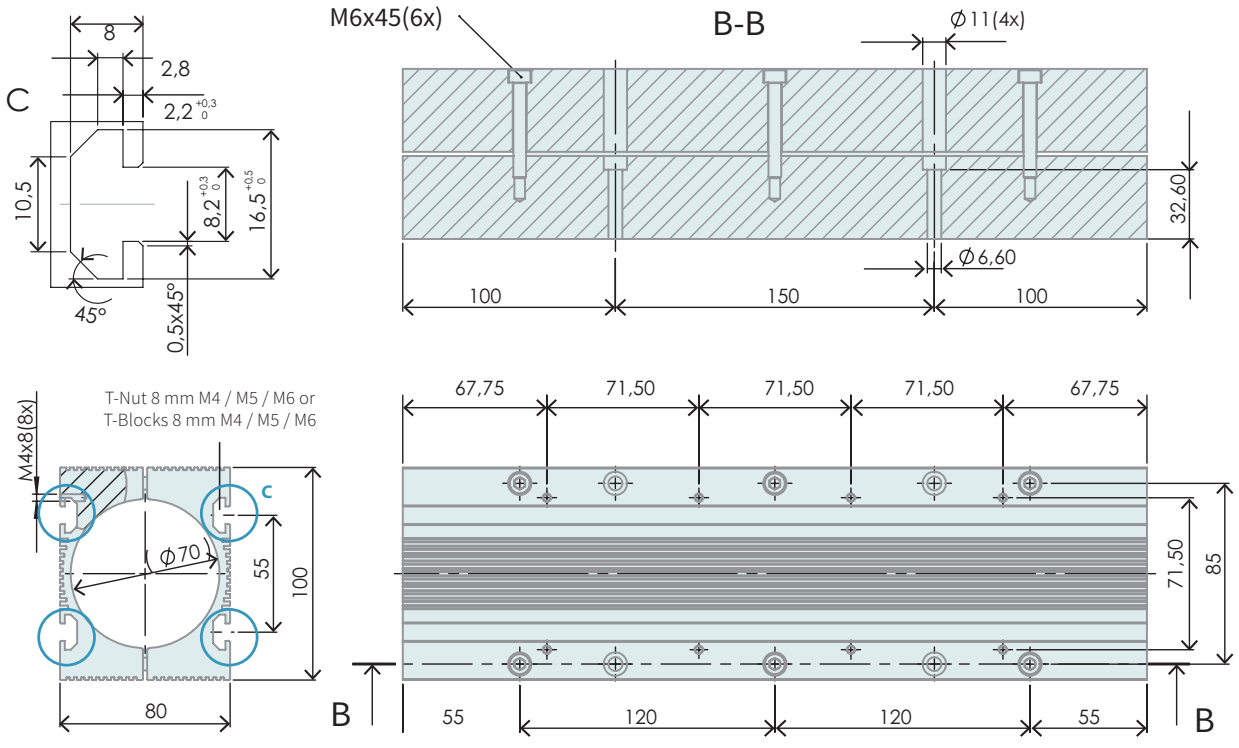
Max. torque for clamp
Plate screws: 12Nm



Item	Description	Stator type	Weight [g]	Item-No.
PF10-70x270	Flange for PS10-70x240	PS10-70x240	2550	0150-2274

PF10-70x350

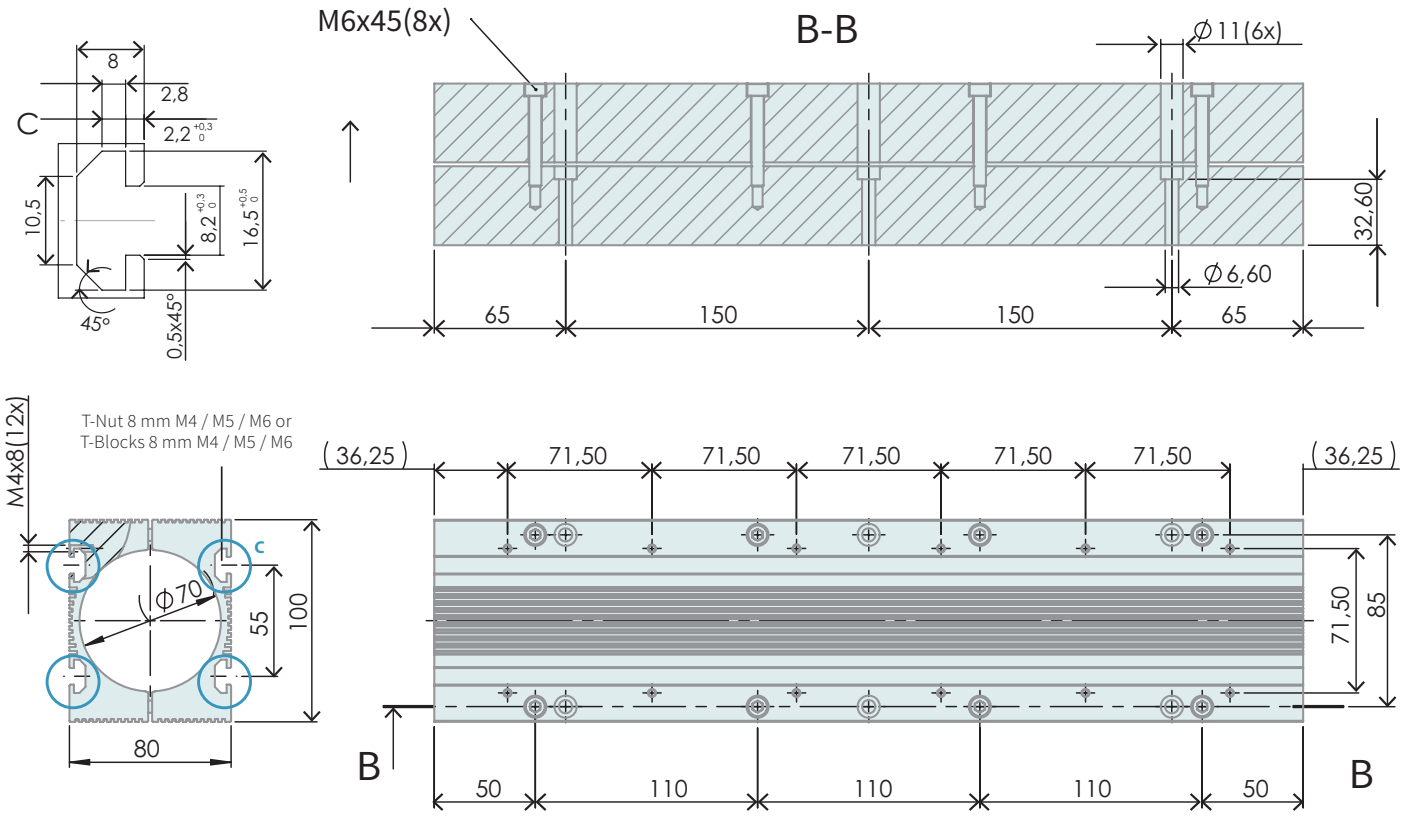
Max. torque for clamp
Plate screws: 12Nm



Item	Description	Stator type	Weight [g]	Item-No.
PF10-70x350	Flange for PS10-70x320	PS10-70x320	3311	0150-2290

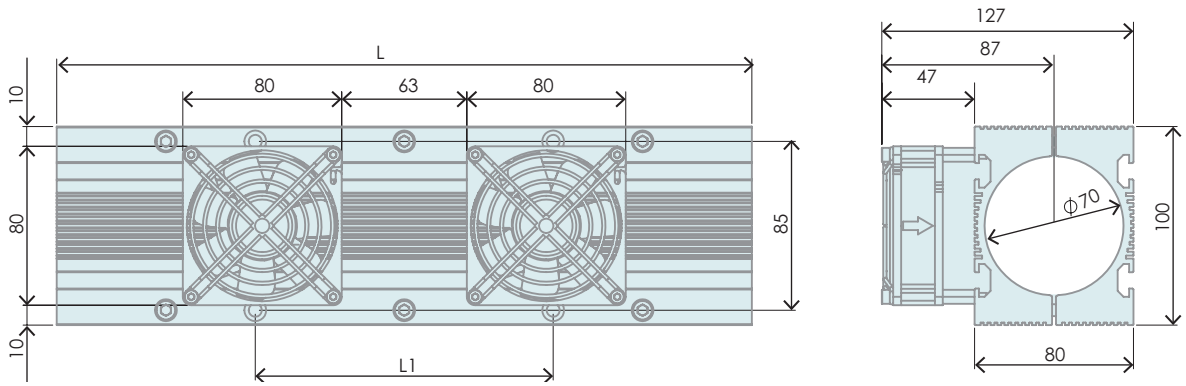
PF10-70x430

Max. torque for clamp
Plate screws: 12Nm



Item	Description	Stator type	Weight [g]	Item-No.
PF10-70x430	Flange for PS10-70x400	PS10-70x400	4056	0150-2276

OPTIONAL FAN FOR PF10-70



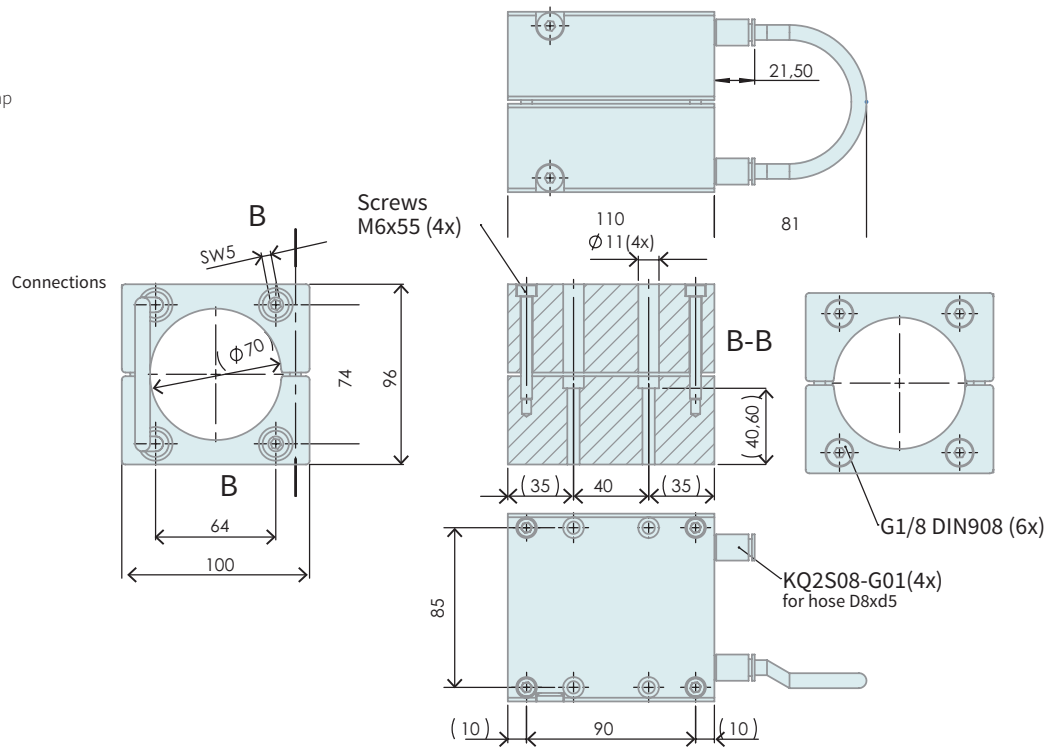
Fan supply:
24 VDC, 120 mA

Air flow:
80 m³/h

Item	Description	Item-No.
HV01-37/48	Fan kit for H10-70 and PF10-70	0150-5051

PF10-70x110-FC

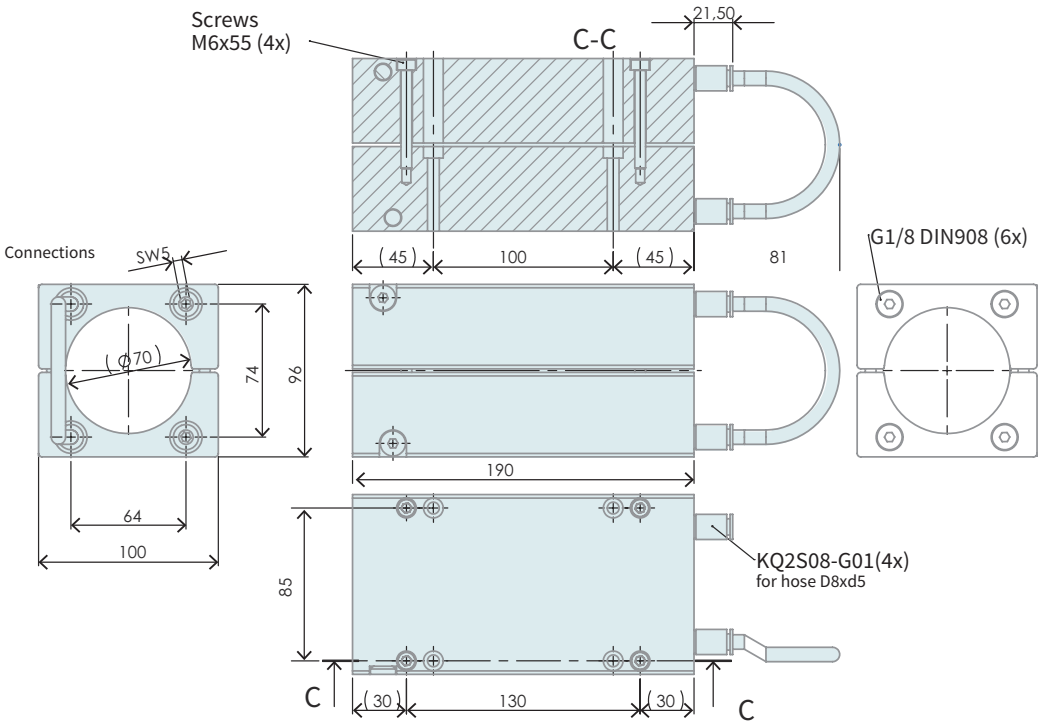
Max. torque for clamp
Plate screws: 12Nm



Item	Description	Stator type	Weight [g]	Item-No.
PF10-70x110-FC	Flange for PS10-70x80 fluid cooling	PS10-70x80	1641	0150-2291

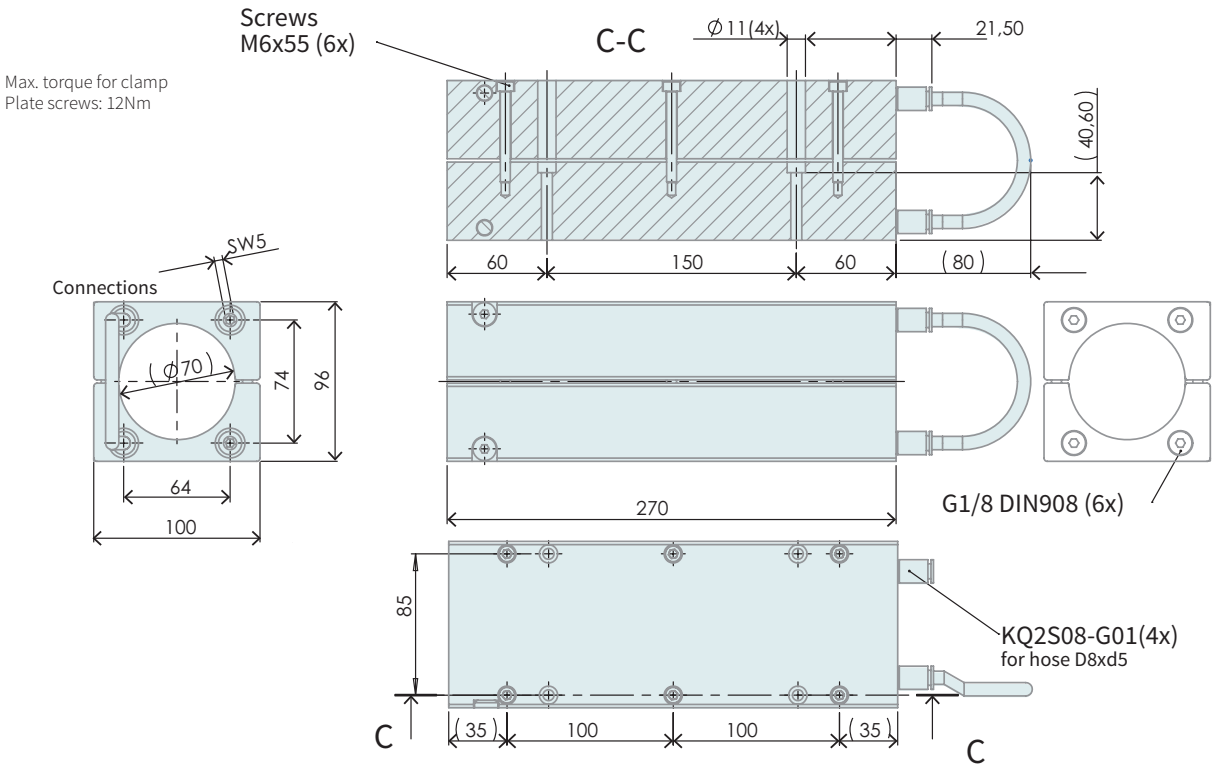
PF10-70x190-FC

Max. torque for clamp
Plate screws: 12Nm



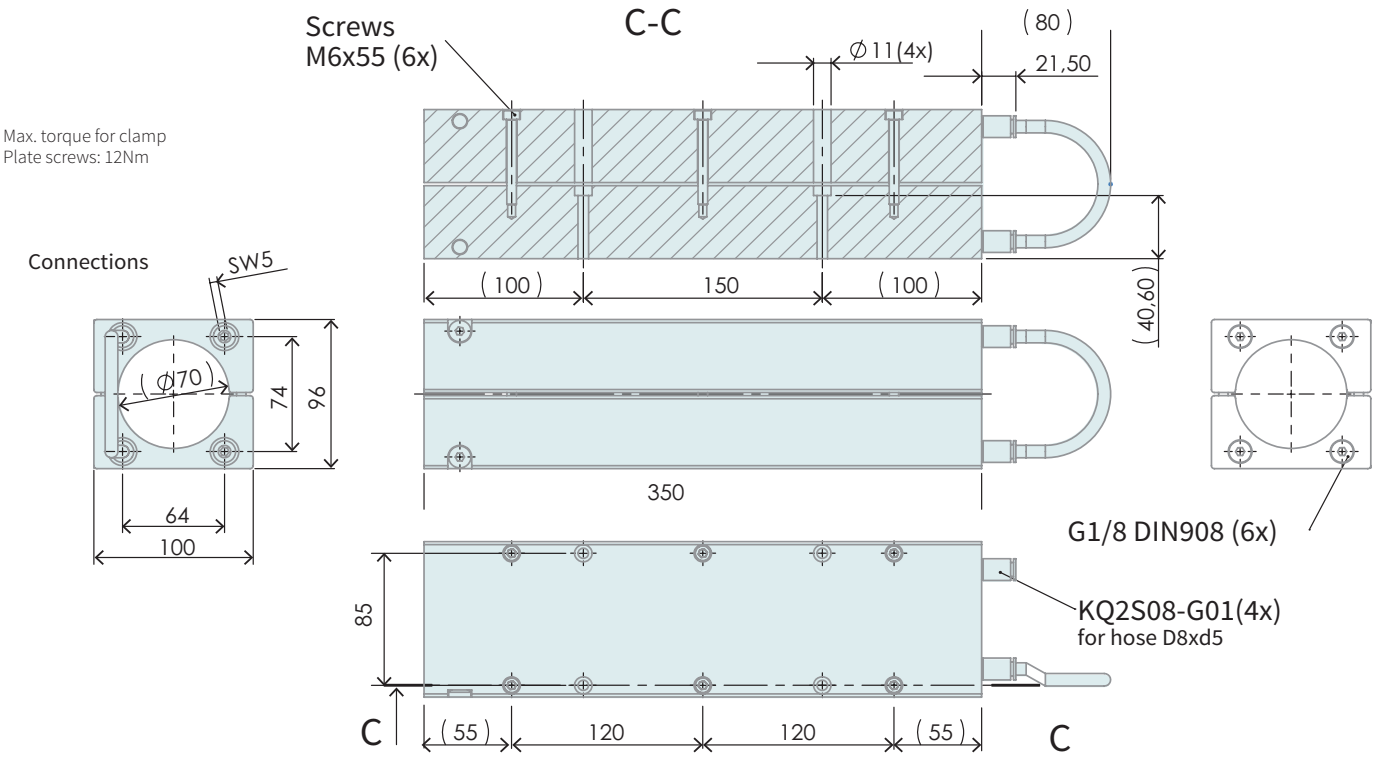
Item	Description	Stator type	Weight [g]	Item-No.
PF10-70x190-FC	Flange for PS10-70x160 fluid cooling	PS10-70x160	2825	0150-2292

PF10-70x270-FC



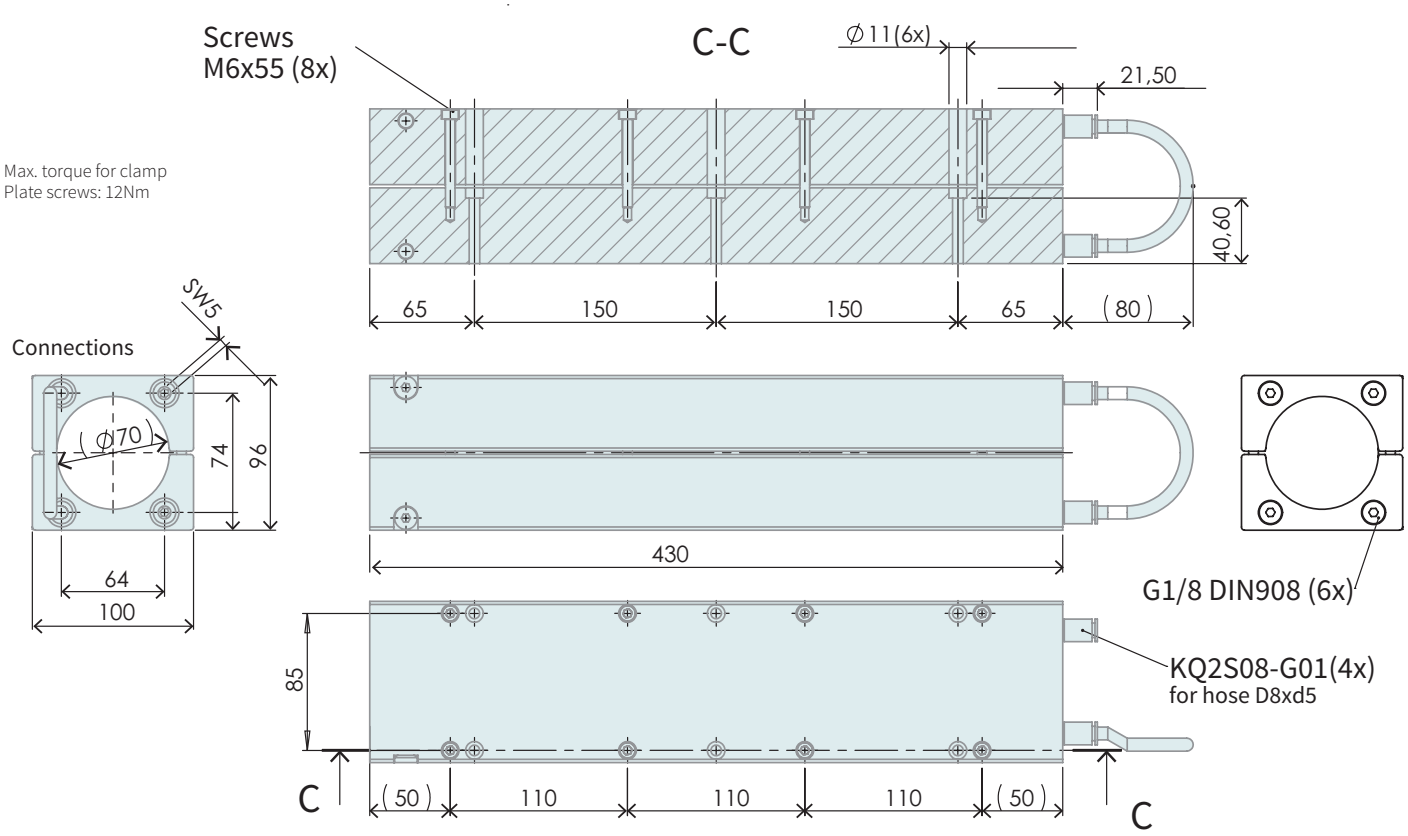
Item	Description	Stator type	Weight [g]	Item-No.
PF10-70x270-FC	Flange for PS10-70x240 fluid cooling	PS10-70x240	4000	0150-2293

PF10-70x350-FC



Item	Description	Stator type	Weight [g]	Item-No.
PF10-70x350-FC	Flange for PS10-70x320 fluid cooling	PS10-70x320	5185	0150-2294

PF10-70x430-FC



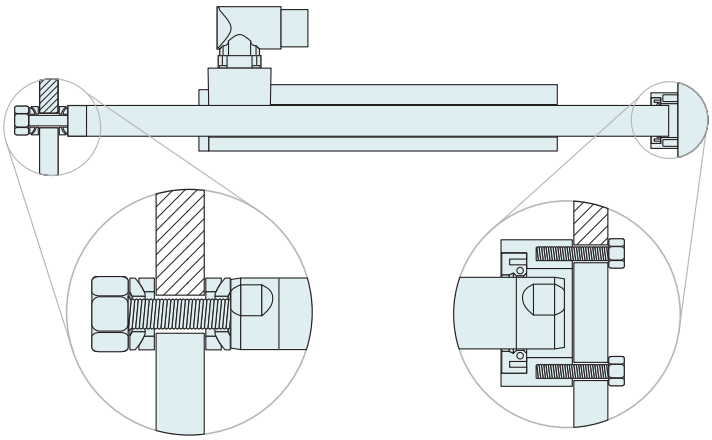
Item	Description	Stator type	Weight [g]	Item-No.
PF10-70x430-FC	Flange for PS10-70x400 fluid cooling	PS10-70x400	6325	0150-2295

Slider Mounting

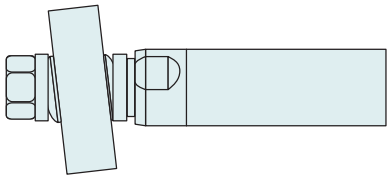
Depending on the application, LinMot linear motors can be operated with a "moving Slider" or "moving stator." Applications with short stroke ranges are preferably implemented with moving sliders; applications with long strokes are better with a moving stator. In both cases, LinMot recommends the use of special mounting kits for mounting the Slider, in order to avoid overdetermining the mount.

In moving Slider applications, the stator is mounted, and the Slider is connected to a load that is guided by a linear guide. In order to avoid alignment errors, the Slider is attached to the load or guide using fixed bearings, each consisting of two rounded washers and two bevel washers.

In moving stator applications, the Slider is mounted and the stator is attached to a linear guide, together with the load. In order to avoid overdetermining the Slider bearing, one end of the Slider is mounted on a fixed bearing, and the other on a floating bearing.

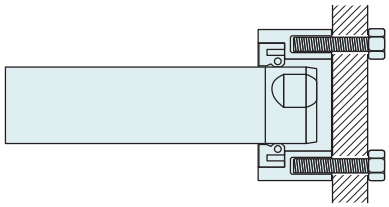


FIXED BEARING



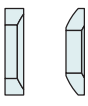
The fixed bearing consists of two rounded washers and two bevel washers. It compensates for angular and axial deflection.

FLOATING BEARING



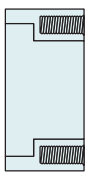
The Slider is mounted in a rubber ring as a floating bearing. The floating bearing compensates for angular and axial displacement and length tolerance.

MATERIAL



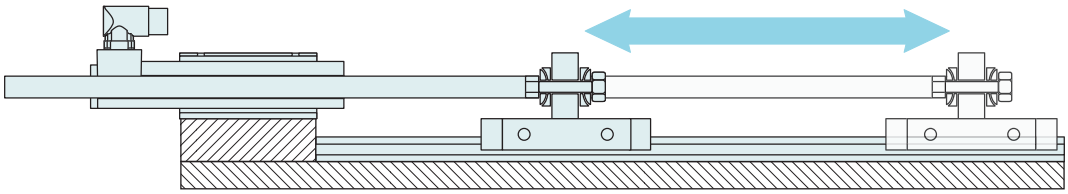
Rounded and bevel washers:
Stainless steel, case-hardened steel or nickel plated

Bearing:
NBR
(Nitrile-Butadiene-Rubber with DIN17223 spring steel)



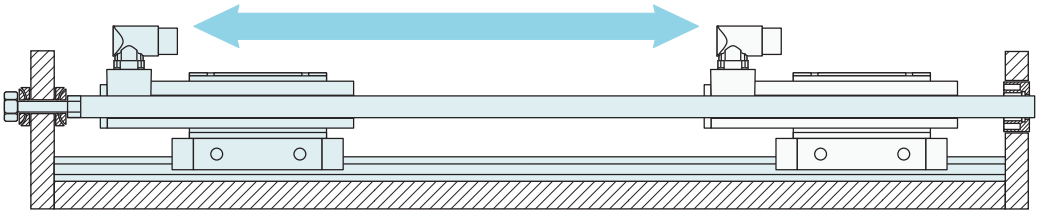
Housing:
Stainless steel 1.4305

MOVING SLIDER



Fixed bearing

MOVING STATOR

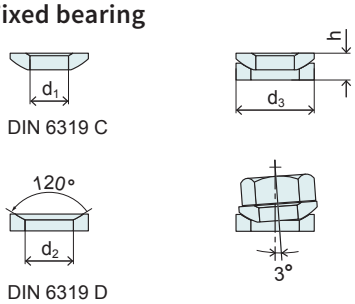


Fixed bearing

Floating bearing

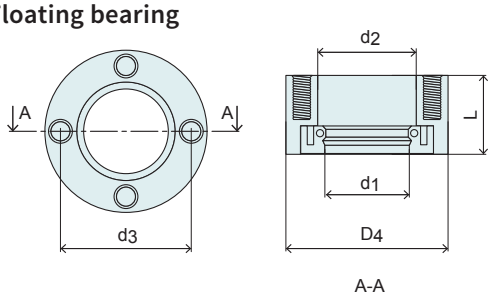
DIMENSIONS AND ORDERING INFORMATION

Fixed bearing



Item	Material	Slider	Thread	d1	d2	d3	h
PLF01-28 **PLF01-28-SS**	Steel case hardened Stainless steel 1.4301	27/28 mm	M10	10.5 mm (0.41 in)	12 mm (0.47 in)	21 mm (0.83 in)	6.5 mm (0.26 in)

Floating bearing



Item	Slider	Thread	d1	d2	d3	d4	L
PLL01-28	28 mm	M5	28 mm (1.10 in)	32 mm (1.26 in)	40 mm (1.57 in)	48 mm (1.89 in)	20 mm (0.79 in)

Item	Description	Item-No.
PLF01-28	Fixed End Washer Set for 27/28 mm sliders	0150-3087
PLF01-28-SS	Fixed End Washer Set for 27/28 mm sliders, stainless steel	0150-3297
PLL01-28	Floating bearing for PL01-28 slider, Mat. 1.4305 / AISI 303	0150-3094
PLM01-28-MK	Mounting kit for PL01-28 slider	0150-3095

Bearing kits

Linear motors in the P10 model series are used under challenging conditions. For fast, uncomplicated maintenance, these types of motors are equipped with replaceable slider bearings. The integrated sliding bearings are east to replace in a few manual steps.

COMPLETE BEARING KIT

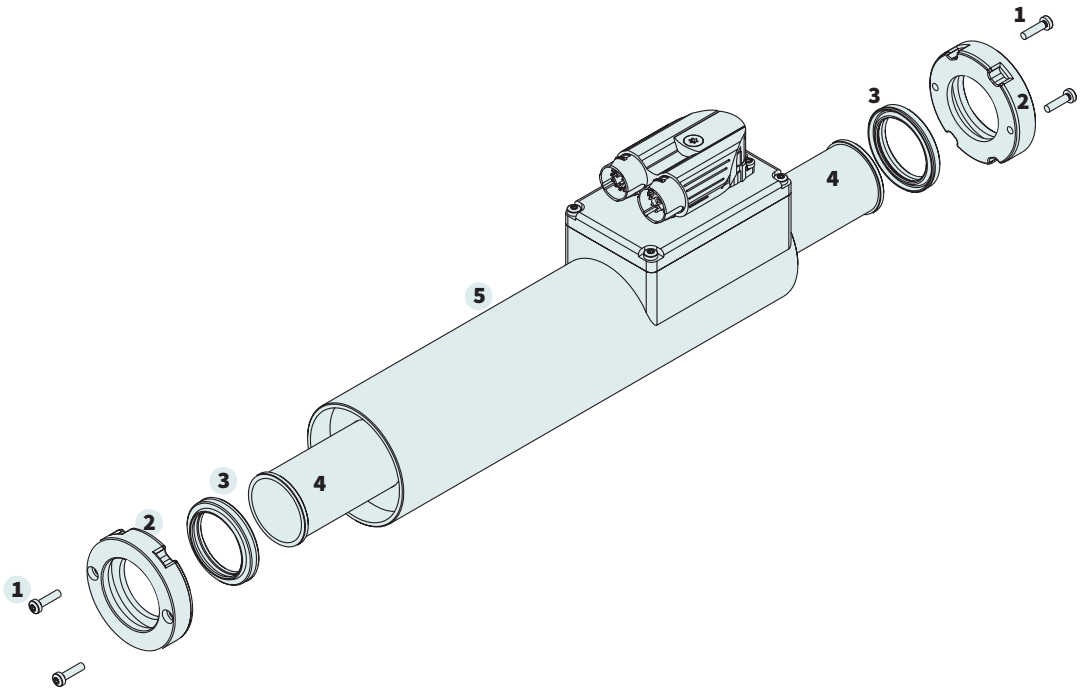
Bearing kits for P10 motors consist of plastic bearing sleeves that are installed over the entire length of the stator. For the larger P10-70 motors, these sliding bearings are already installed in a complete stainless steel tube.

In addition to the bearings themselves, each installation kit contains both stator end pieces (front/rear) with integrated wipers. The bearing is thus protected from external contamination.

Bearing kit PB10-54

Bearing kit PB10-70

PB10-54

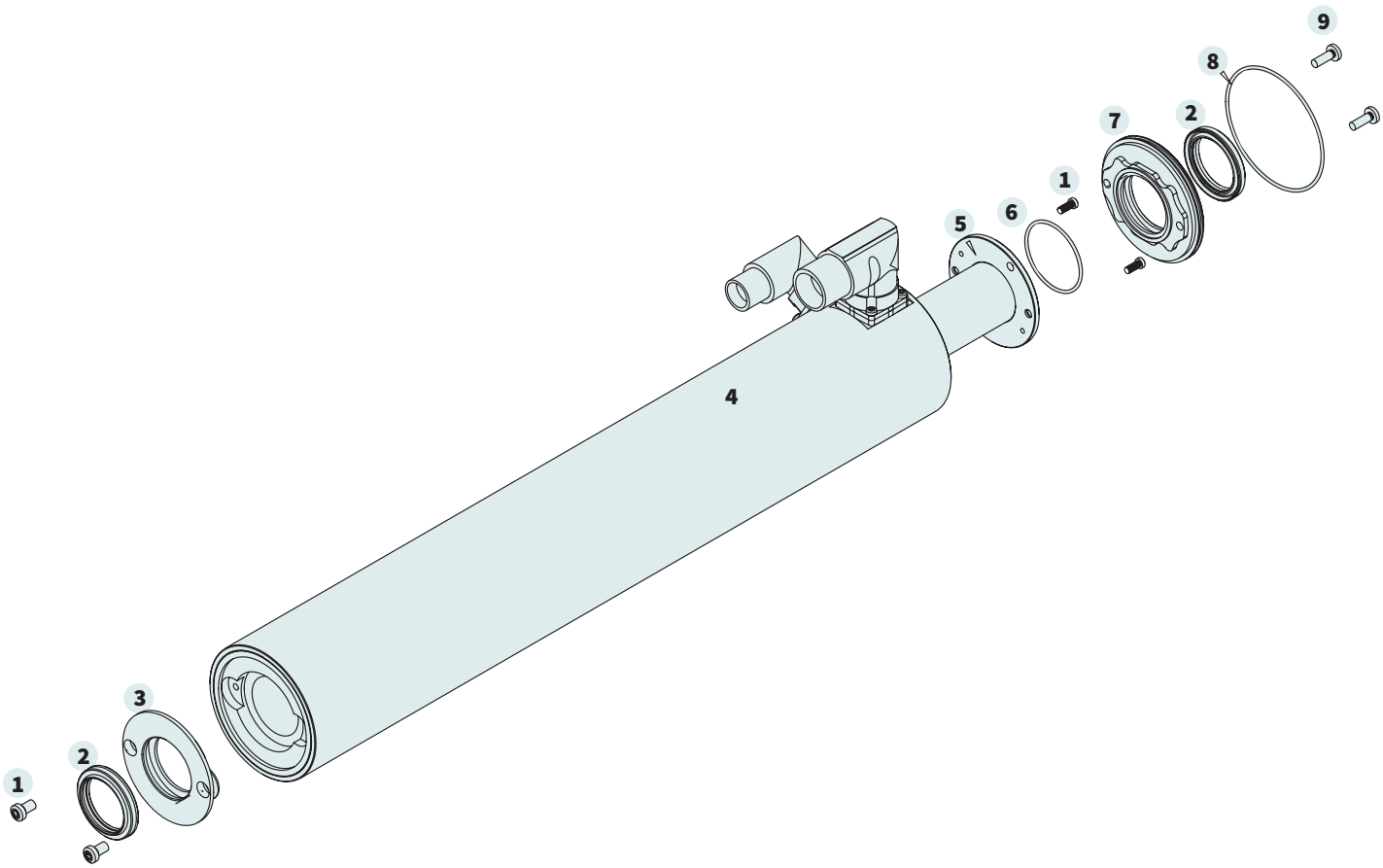


PARTS LIST	
Pos	Description
1	Pan head screw stainless steel
2	Stator end piece
3	Wiper
4	Bearing bushing
5	Stator

ORDERING INFORMATION

Item	Description	Item-No.
PB10-54x120-L	Bearing kit for PS10-54x120	0150-3671
PB10-54x180-L	Bearing kit for PS10-54x180	0150-3672
PB10-54x240-L	Bearing kit for PS10-54x240	0150-3673
PB10-54x300-L	Bearing kit for PS10-54x300	0150-3674

PB10-70



PARTS LIST	
Pos	Description
1	Pan head screw stainless steel
2	Wipers
3	Stator end piece front
4	Stator
5	Bearing tube
6	O-Ring 33 x 1.5 mm ISO 3601
7	Stator end piece rear
8	O-Ring 60 x 1.5 mm ISO 3601
9	Pan head screw stainless steel

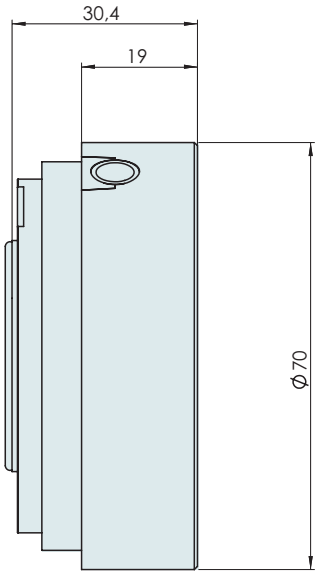
ORDERING INFORMATION

Item	Description	Item-No.
PB10-70x80-L	Bearing kit for PS10-70x80	0150-3431
PB10-70x160-L	Bearing kit for PS10-70x160	0150-3432
PB10-70x240-L	Bearing kit for PS10-70x240	0150-3433
PB10-70x320-L	Bearing kit for PS10-70x320	0150-3434
PB10-70x400-L	Bearing kit for PS10-70x400	0150-3435

Lubricant reservoirs

LinMot stators in the P10-70 family can be equipped with grease reservoirs as an option. When grease reservoirs are used, lubrication can be regulated optimally. Only the amount of lubricant that is necessary is released. This makes maintenance easier and extends maintenance intervals. The integrated wipers hold the grease in the stator and thus prevent contamination from the outside.

The grease reservoirs are screwed onto the front or rear end of the stator. Depending on the side of the stator, the installation space required for the stator increases in length by 19 mm (rear) or 28 mm (front).



Material:
Ryton

ORDERING INFORMATION

Item	Description	Item-No.
PA10-70/28	Lubricant reservoirs for PS10-70	0150-3543

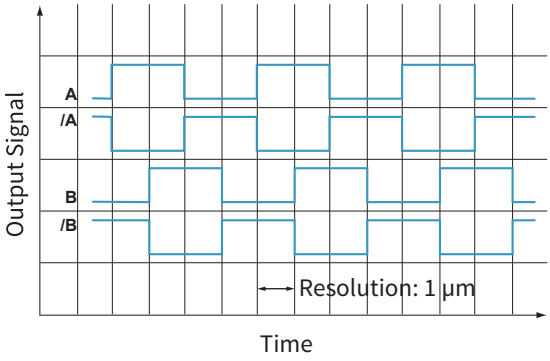
External Position Sensor MS01-1/D

Non-contacting measuring position sensors, using magnets with integrated processing electronics and differential encoder outputs for the LinMot Servo Drives.

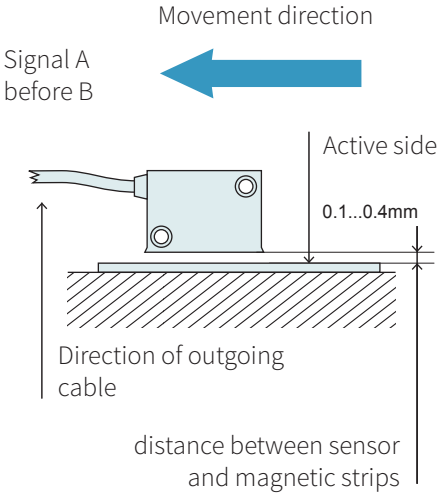
Together with the MB01-1000 magnetic band , the MS01/D position sensor is part of a high-resolution, robust, linear measurement system.

Features:

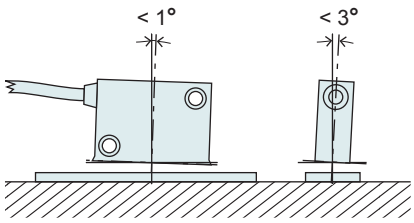
- Simple installation, by sticking on the magnetic band
- IP67 protection class, not sensitive to dust, moisture, or dirt
- Status display with LEDs directly at the sensor head
- Highest precision-
  Resolution 0.001 mm
  - System accuracy ±0.01 mm
- Allows high travel speeds of up to 3 m/s



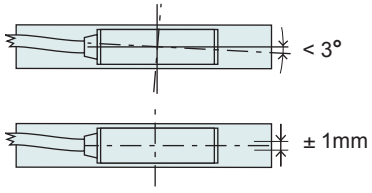
COUNTING DIRECTION



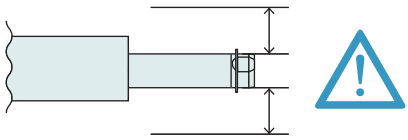
INSTALLATION



Maximum alignment error



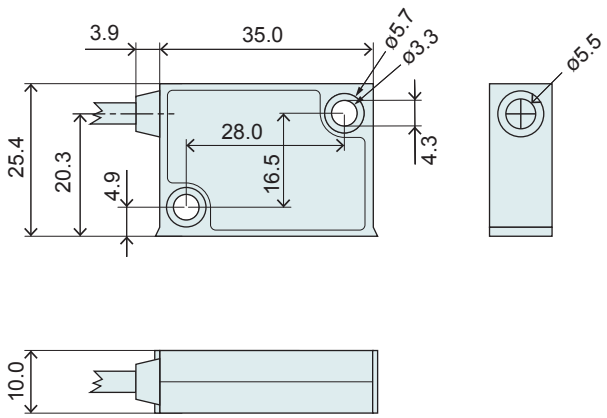
MINIMUM DISTANCE FROM SLIDER

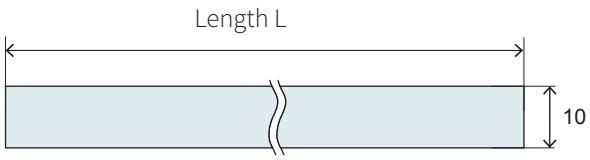


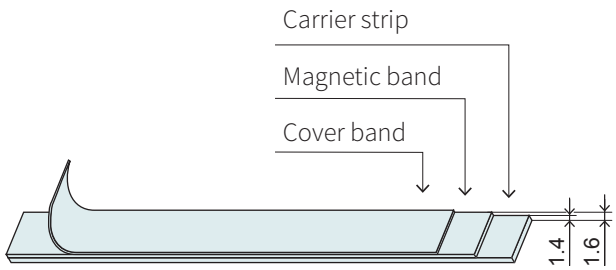
In order to rule out influence of the magnetic LinMot slider on the position measurement, the following minimal distances to the magnetic strip should be observed:

Linear Motor:	Minimum distance:
P01-23...	30 mm
P01-37...	40 mm
P01-48...	60 mm
P10-54...	60 mm
P10-70...	50 mm

DIMENSIONS

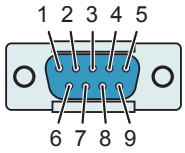






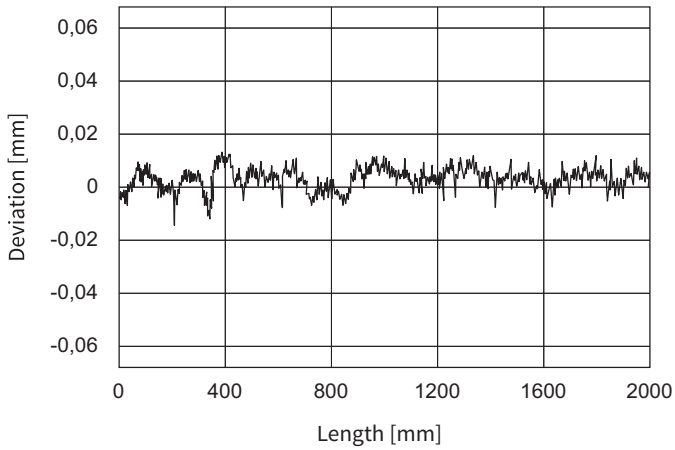
Cable	
Cable length	2 m, High Flex, PUR
Connector type	Dsub-9 (male)

Connector wiring



Pin 1	+5VDC
Pin 2	Kanal /A
Pin 3	Kanal /B
Pin 5	GND
Pin 6	Kanal A
Pin 7	Kanal B
Pin 4, 8, 9	n.c.

Technical data magnetic band	
Order length	maximal stroke +3.0 cm
Width	10 mm
Carrier material	Spring steel band
Precision class	± 10 µm/m
Temperature coefficient	(11 ± 1) x 10-6 / °K
Storage temperature range	-20...70°C
Storage temperature range	-40...70°C
Protection class	IP 67
Mounting	Self adhesive magnetic band



ORDERING INFORMATION

Item	Description	Item-No.
MS01-1/D	Linear Encoder 1µm, A/B(for incremental strip)	0150-1840
MB01-1000	Magnetic incremental strip for MS01-1/D, per cm	0150-1963
KS025-D/D15-Encoder	Encoder Cable, High Flex (Length in m)	0150-3168

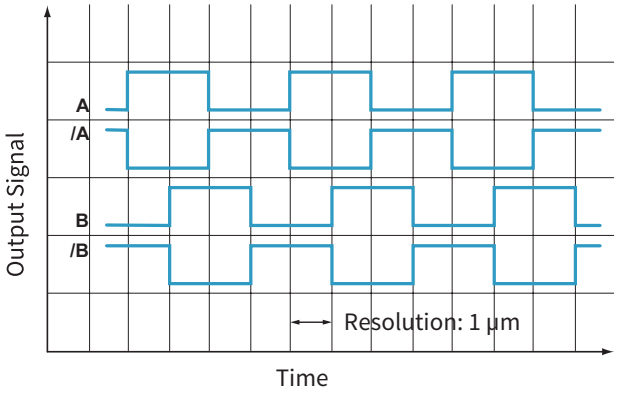
External Position Sensor
MS01-1/D-SSI

Non-contacting measuring position sensors, using magnets with integrated processing electronics for servo drives series C and E. The absolute position value can be read from an upstream control unit with a resolution of 5mm via encoder interface. In addition, an incremental interface with quadrature signals in various reso- lutions is available as an option.

Together with the MB01-1000-ABS magnetic band, the MS01/D-SSI position sensor is part of a high-resolution, robust, linear measurement system.

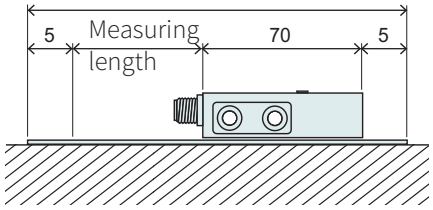
Features:

- Max. resolution::
  5 µm absolute, 1 µm incremental
- Repeatability 0.005 mm
- Output circuit SSI, RS485 (absolute), LD (incremental)
- Reading distance/Strip max. 1.3 mm
- Max. measuring length 10.24 m
- Status-LEDs for Diagnosis
- IP67 protection class, not sensitive to dust, moisture, or dirt

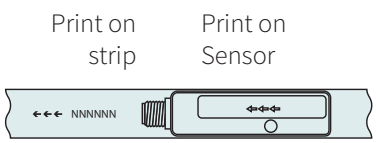


STRIP LENGTH AND COUNTING DIRECTION

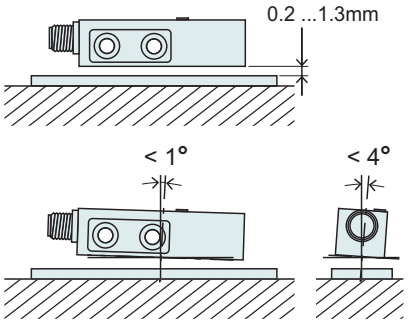
required strip length =
Measuring length + 80mm (min. 200 mm)



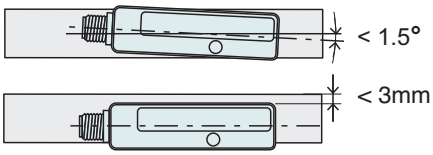
Direction of travel



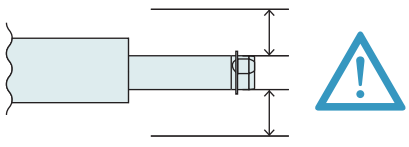
INSTALLATION



Maximum alignment error



MINIMUM DISTANCE FROM SLIDER



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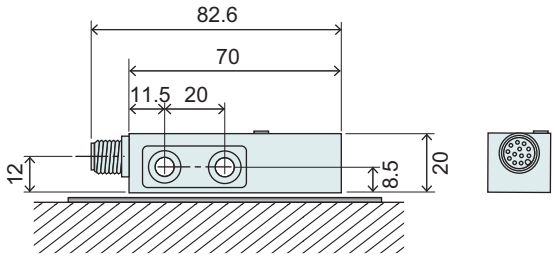
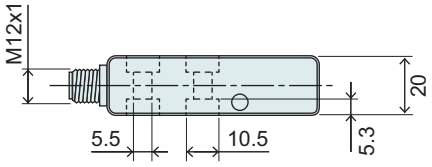
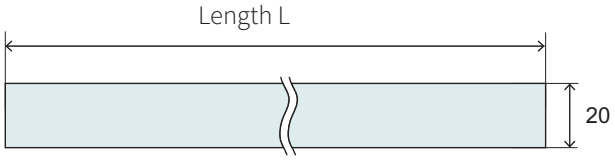
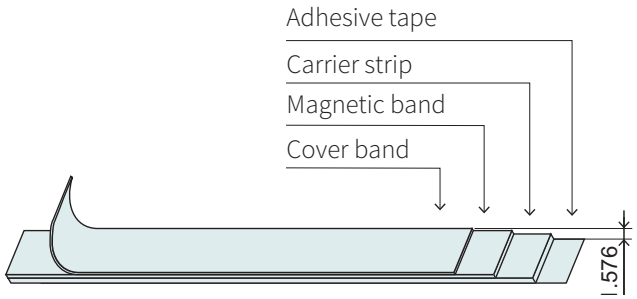
P01-48...	60 mm
P10-54...	60 mm
P10-70...	50 mm

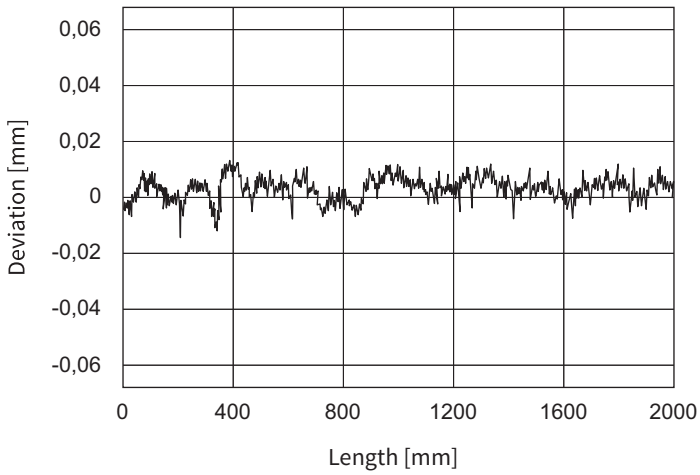
DIMENSIONS



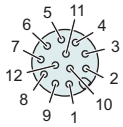


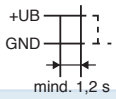






Connector wiring



Pin 1	nc		
Pin 2	D+		
Pin 3	D-		
Pin 4	T-		
Pin 5	+UB		
Pin 6	/A		
Pin 7	A		
Pin 8	/B		
Pin 9	B		
Pin 10	Config	GND	The sensor is in the SSI mode.
		+UB (while encoder suply is being turned on)	Der Sensor befindet sich in den ersten 10 s im Bootloadermodus (einspielen neuer Firmware möglich), anschliessend wechselt er in den Servicemode.
			Setzen des Positionswerts auf den Kalibrierwert (nur wenn sich der Sensor in der SSI-Betriebsart befindet)
Pin 11	T+		
Pin 12	OV		

Technical data magnetic band

Order length	Measuring length + 80 mm
Width	20 mm
Carrier material	Spring steel band
Precision class	± 50 µm at 20°C
Temperature coefficient	(11 ± 1) x 10^{-6} / °K
Storage temperature range	-20...70°C
Storage temperature range	-40...70°C
Protection class	IP 67
Mounting	Self adhesive magnetic band

ORDERING INFORMATION

Item	Description	Item-No.
MS01-1/D-SSI	Linear Encoder 1 µm, A/B (for absolute strip)	0150-2095
MB01-1000-ABS	Magnetic absolute strip, 1 mm Pitch, per cm	0150-2096
EC01-ABS/ENC-12-S	Special cable for MS01-1/D-SSI on C1100/C1200/C1400/E1200/E1400 Drives	0150-3616

ACCESSORIES
LINEAR ROTARY MOTORS

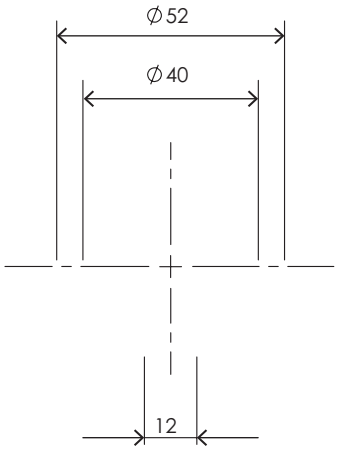
- Cooling profiles for optimal thermal dissipation
- Fans for cooling rotary motors
- Accessories for mounting a MagSpring
- Accessories for implementing a cam kit
- Optimal load mounting with LinMot shaft-hub clamping

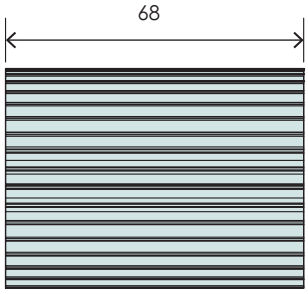
ACCESSORIES LINEAR ROTARY MOTORS

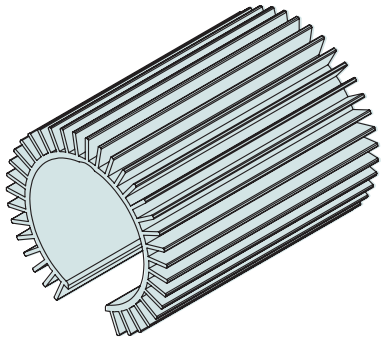
Cooling Profile

Cooling profiles increase the continuous force of the linear component for LinMot linear-rotary motors. The fin design generates a large cooling surface that ensures optimal thermal dissipation. The user simply slides the component onto the linear motor. No further installation materials are required.

PC01-37

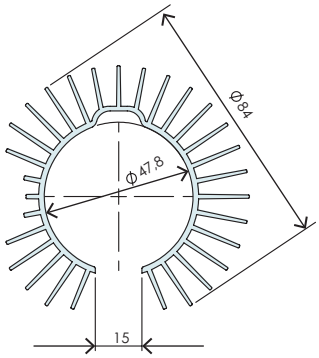


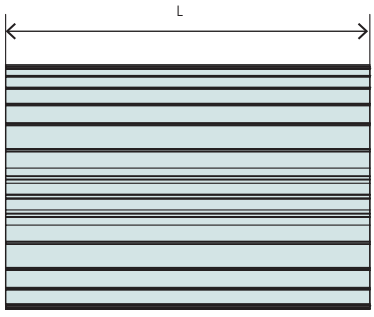


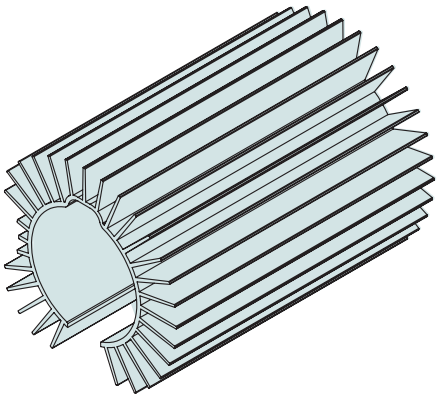


Item	Description	Weight [g]	Item-No.
PC01-37x68	Cooling Profile for PS01-37x120F-HP-C	70	0160-2131

PC01-48





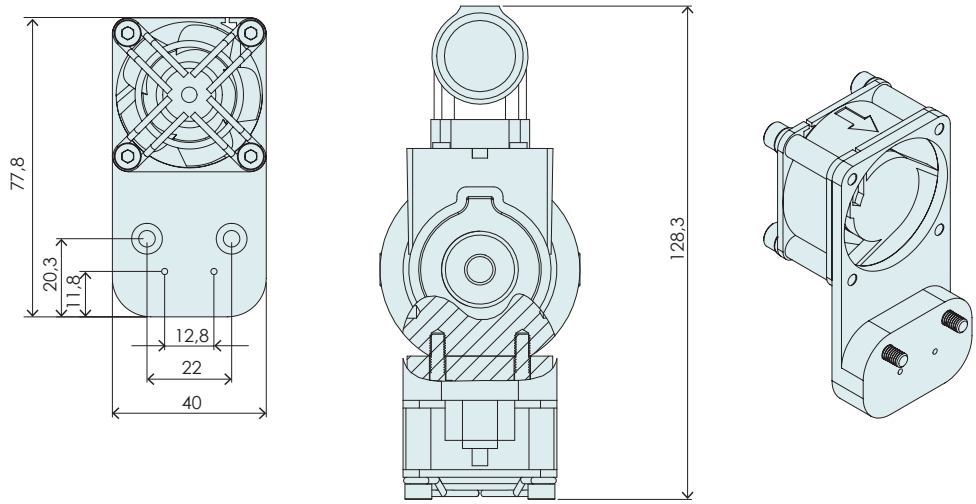


Item	Description	L [mm]	Weight [g]	Item-No.
PC01-48x100	Cooling Profile for PS01-48x240F-C-... and PS01-48x360F-C-...	99	210	0160-2145
PC01-48x117	Cooling Profile for PS01-48x240F-C-... and PS01-48x360F-C-...	117	250	0160-2138

Fan Kits

LinMot offers fan kits for size 52 and 84 rotary motors. These consist of a fan, the cover grid, and matching mounting screws.

RS01-VA52-KIT

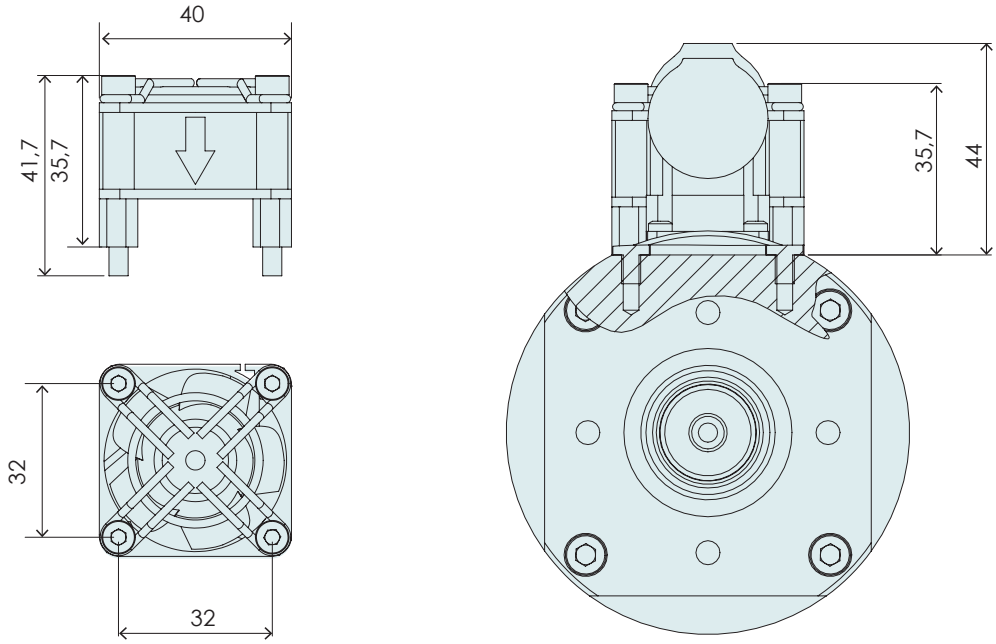


Fan supply:
24 VDC, 60 mA

Air flow:
14.7 m³/h

Item	Description	Weight [g]	Item-No.
RS01-VA52-Kit	Fan Kit for RS01-52 Rotary Motors	75	0150-1599

RS01-VA84-KIT



Fan supply:
24 VDC, 60 mA

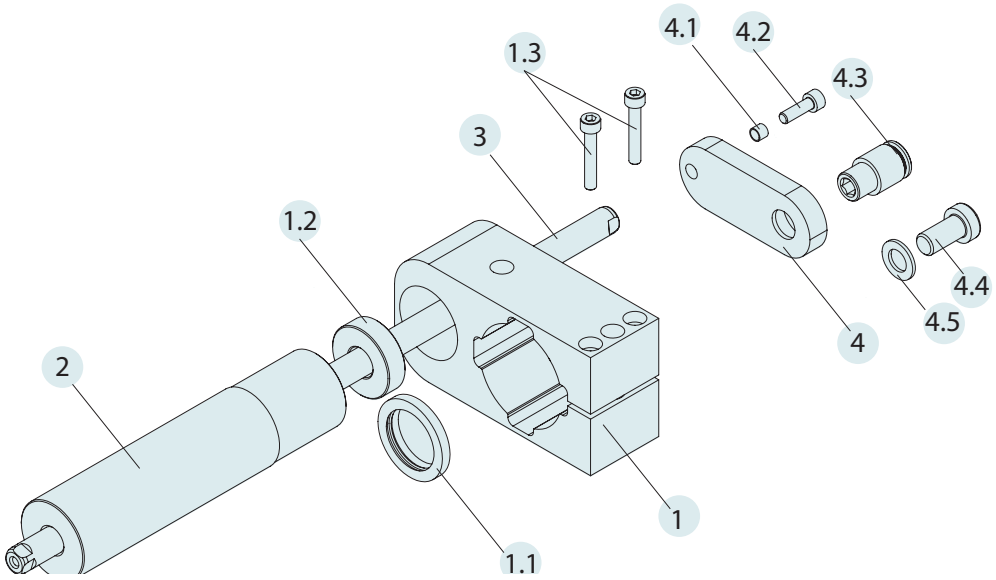
Air flow:
14.7 m³/h

Item	Description	Weight [g]	Item-No.
RS01-VA84-Kit	Fan Kit for RS01-84 Rotary Motors	30	0150-1600

Mounting Flange and MagSpring Adapter

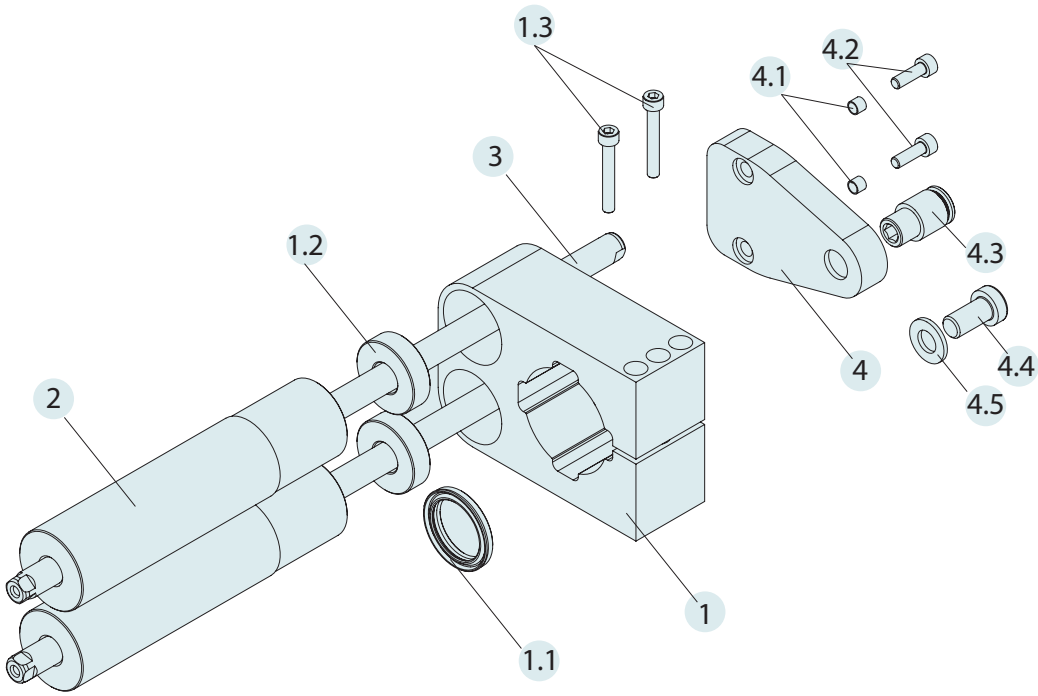
If the weight force of the linear-rotary axis needs to be compensated for passively, then a "MagSpring" magnetic spring can be installed. LinMot provides appropriate flanges and adapters for simple installation. The mounting flange is available in the variant UNO and DUO for the PR01-84 typos of Linear Rotary Motors.

OVERVIEW MAGSPRING MOUNTING FLANGE UNO



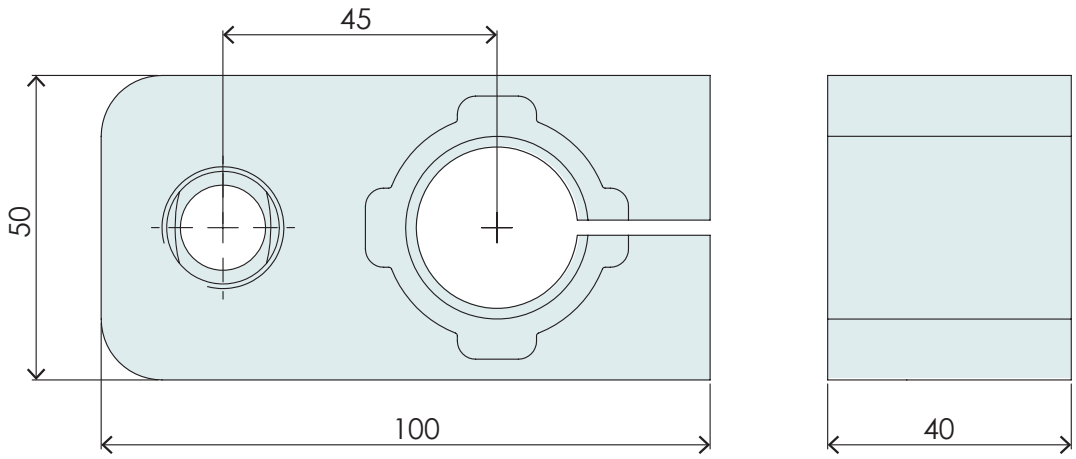
Pos.		Description	Item-No. for type 52 and 52-L		Item-No. for type 84 and 84-L
1		MagSpring Mounting Flange UNO	MF01-PR01-52x40-20 Item-No. 0250-2322	MF01-PR01-52x40-37 Item-No. 0250-2319	MF01-PR01-84x37-1 Item-No. 0250-2337
	delivered with:				
	1.1	Wiper	PAW01-20 Item-No. 0150-3112		PAW01-28 Art.-No. 0150-3133
	1.2	Spacer sleeve	For type 52 and 52-L not available		MF01-AR-84 Art-Nr. 0250-0132
	1.3	Socket screw (2x)	M5x30 / ISO 4762		M5x35 / ISO 4762
2		MagSpring Stator	MS01-20x140 (22 $F_{const.}$) Item-No. 0250-2201	MS01-37x155 (40 $F_{const.}$) Item-No. 0250-2204 MS01-37x155 (60 $F_{const.}$) Item-No. 0250-2204	MS01-37x155 (60 $F_{const.}$) Item-No. 0250-2204 For Linear Rotary Motors with 300 mm stroke: MS01-37x305 / Art.-No. 0250-2206
3		MagSpring Slider	ML01-12x350/160-20 Item-No. 0250-2321	ML01-12x350/160-10 Item-No. 0250-2333 ML01-12x350/160-20 Item-No. 0250-2321	ML01-12x350/160-20 Item-No. 0250-2321 For Linear Rotary Motors with 300 mm stroke: ML01-12x650/320-20 / Art.-No. 0250-2343
4		MagSpring Adapter	MA01-PR01-52-37/20 Item-No. 0250-0128		MA01-PR01-84x80-37x1 Item-No. 0250-2341
	delivered with:				
	4.1	Spacer sleeve	MA01-PR01-sleeve 4,9		MA01-PR01-sleeve 4,9
	4.2	Socket screw	M5x14 / ISO 4762		M5x14 / ISO 4762
	4.3	Pneumatic fitting	for 6 mm hose 1/8“		for 10 mm hose 1/4“
	4.4	Socket screw	M8x14 / ISO 4762		M10x14 / DIN 7984
	4.5	Adjusting washer	M8		M10

OVERVIEW MAGSPRING MOUNTING FLANGE DUO



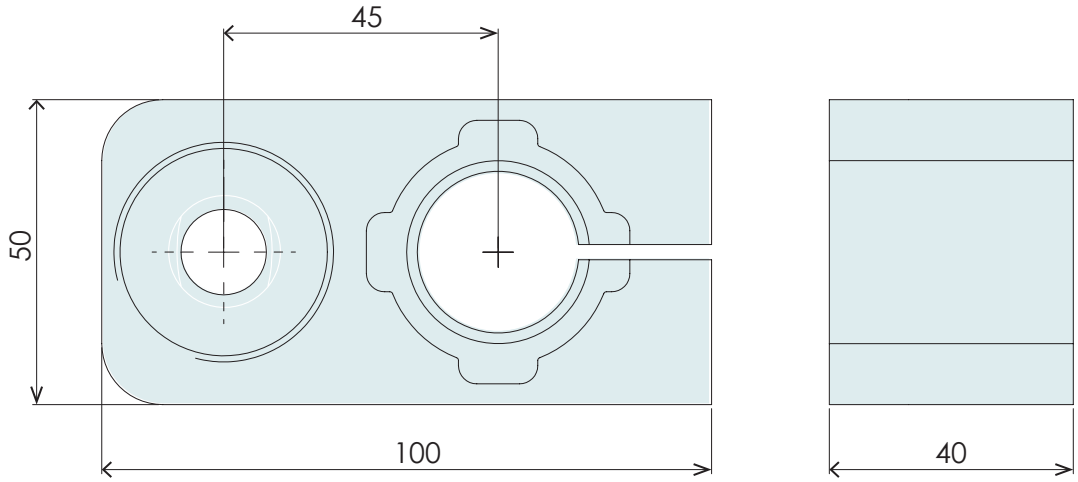
Pos.		Description	Item-No.
1		MagSpring Mounting Flange DUO	MF01-PR01-84x37-2 Item-No. 0250-2338
	delivered with:		
	1.1	Wiper	PAW01-28 Art.-No. 0150-3133
	1.2	Spacer sleeve (2x)	MF01-AR-84
	1.3	Socket screw (2x)	M5x35 / ISO 4762
2		MagSpring Stator (2x)	MS01-37x155 (60 $F_{const.}$) Item-No. 0250-2204
3		MagSpring Slider (2x)	ML01-12x350/160-20 Item-No. 0250-2321
4		MagSpring Adapter	MA01-PR01-84x80-37x2 Item-No. 0250-2340
	delivered with:		
	4.1	Spacer sleeve (2x)	MA01-PR01-sleeve 4,9
	4.2	Socket screw (2x)	M5x14 / ISO 4762
	4.3	Pneumatic fitting	for 10 mm hose 1/4“
	4.4	Socket screw	M10x20 / DIN 7984
	4.5	Adjusting washer	M10

MF01-PR01-52x40-20



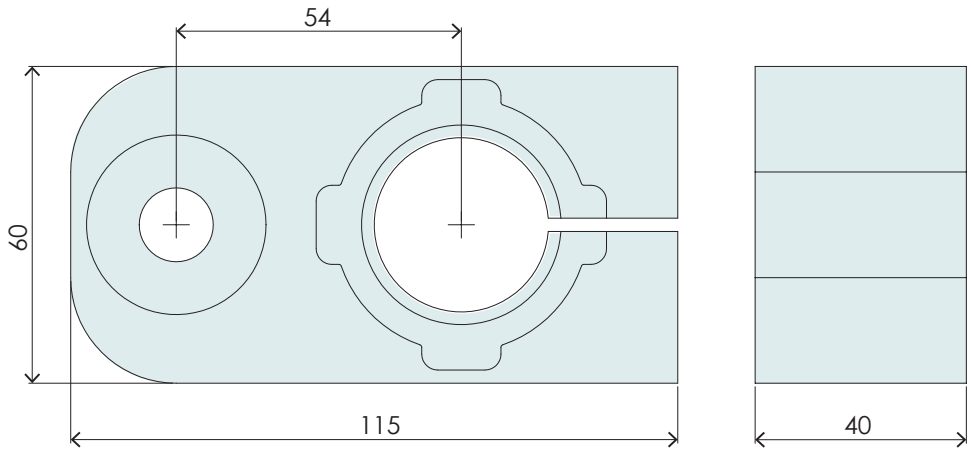
Item	Description	Weight [g]	Item-No.
MF01-PR01-52x40-20	MagSpring Mounting Flange for Linear Rotary Motors	330	0250-2322

MF01-PR01-52x40-37



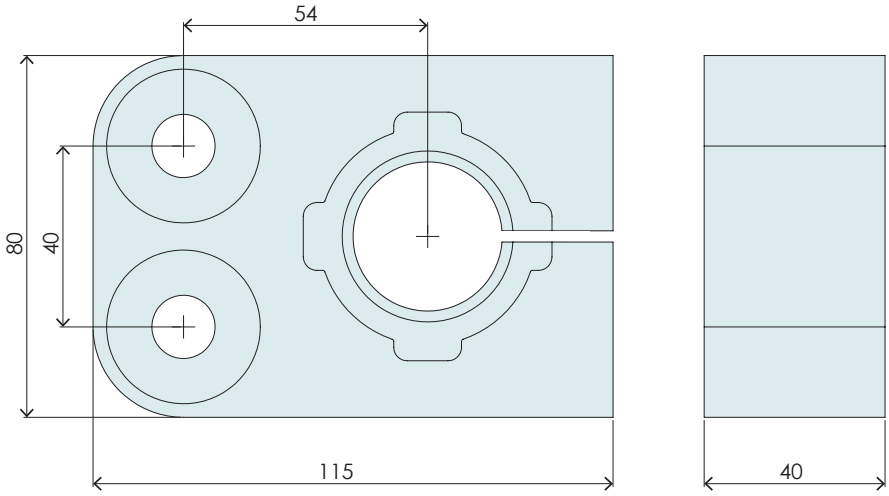
Item	Description	Weight [g]	Item-No.
MF01-PR01-52x40-37	MagSpring Mounting Flange for Linear Rotary Motors	310	0250-2319

MF01-PR01-84x80-37-1



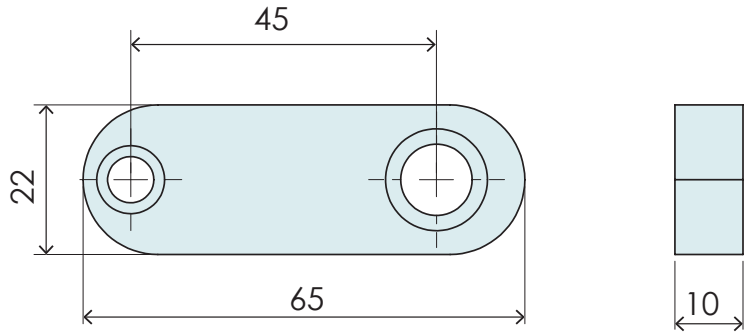
Item	Description	Weight [g]	Item-No.
MF01-PR01-84x80-37-1	MagSpring Mounting Flange for Linear Rotary Motors UNO	425	0250-2337

MF01-PR01-84x80-37-2



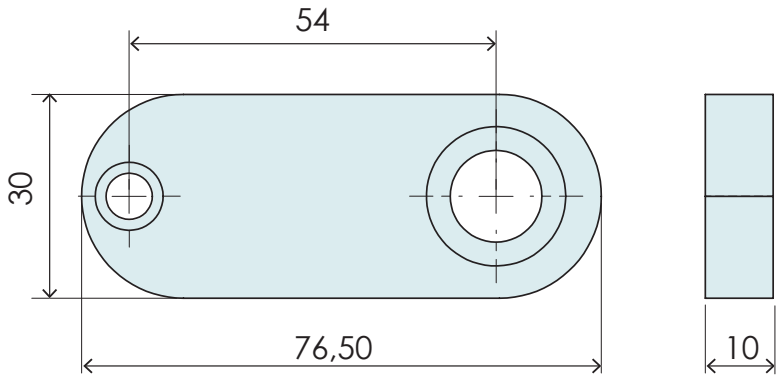
Item	Description	Weight [g]	Item-No.
MF01-PR01-84x80-37-2	MagSpring Mounting Flange for Linear Rotary Motors DUO	590	0250-2338

MA01-PR01-52-37/20



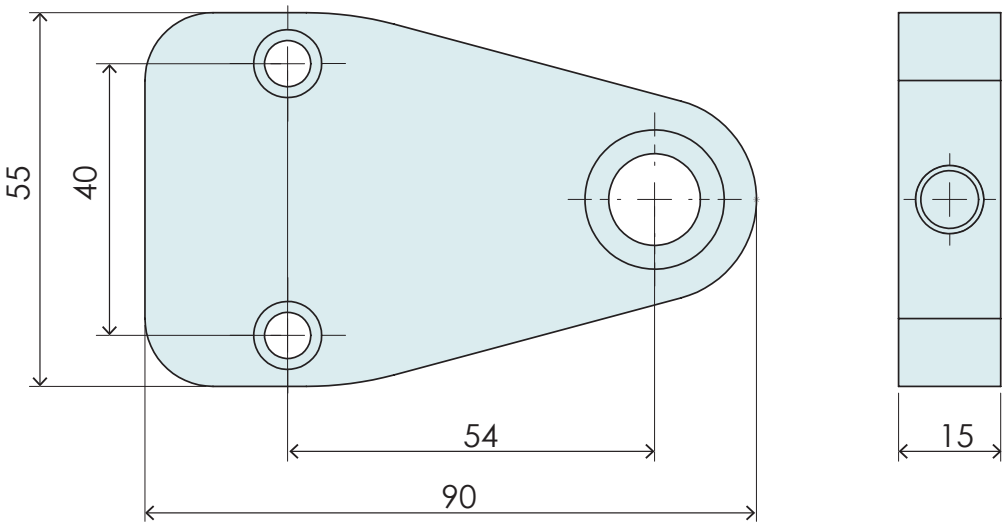
Item	Description	Weight [g]	Item-No.
MA01-PR01-52-37/20	MagSpring Adapter for Linear Rotary Motor	50	0250-0128

MA01-PR01-84x80-37-1



Item	Description	Weight [g]	Item-No.
MA01-PR01-84x80-37-1	MagSpring Adapter for Linear Rotary Motors UNO	85	0250-2341

MA01-PR01-84x80-37-2

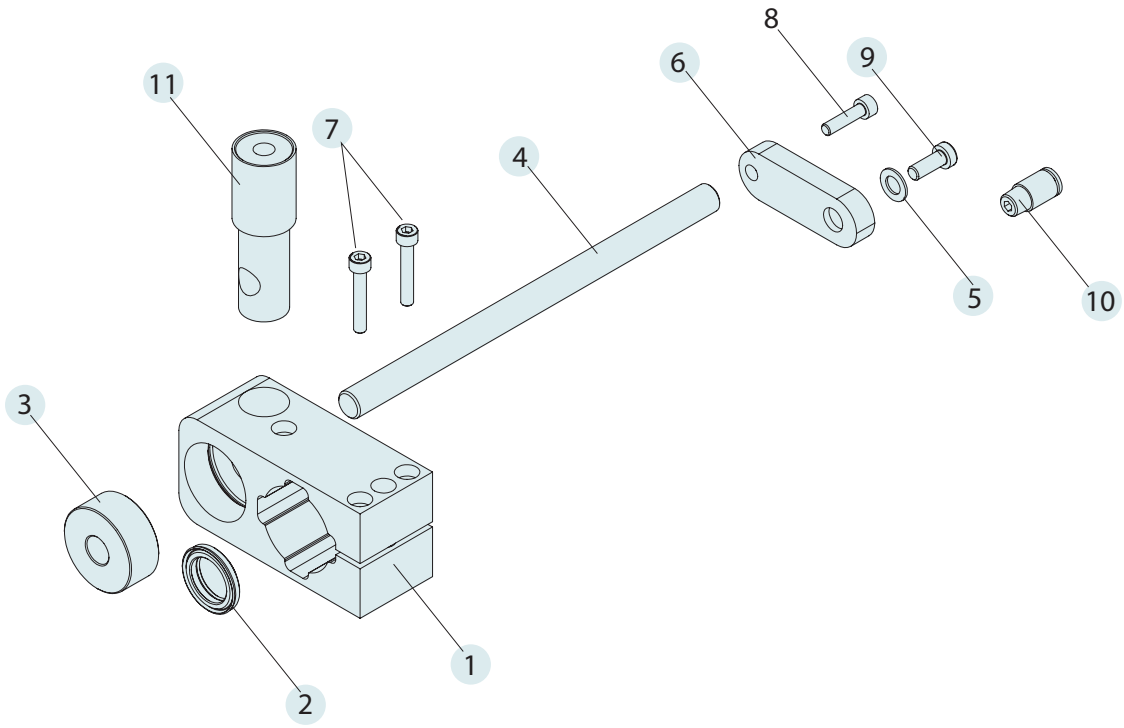


Item	Description	Weight [g]	Item-No.
MA01-PR01-84x80-37-2	Adapter MagSpring Linear Rotary Motor DUO	186	0250-2340

Brake Kit

The brake kit for size 52 linear-rotary motors prevents the axis from dropping down when oriented vertically. The pneumatic brake included in the set provides the braking action. It is activated when the power is off and acts directly on the slotted guide shaft installed parallel to the motor axis.

OVERVIEW

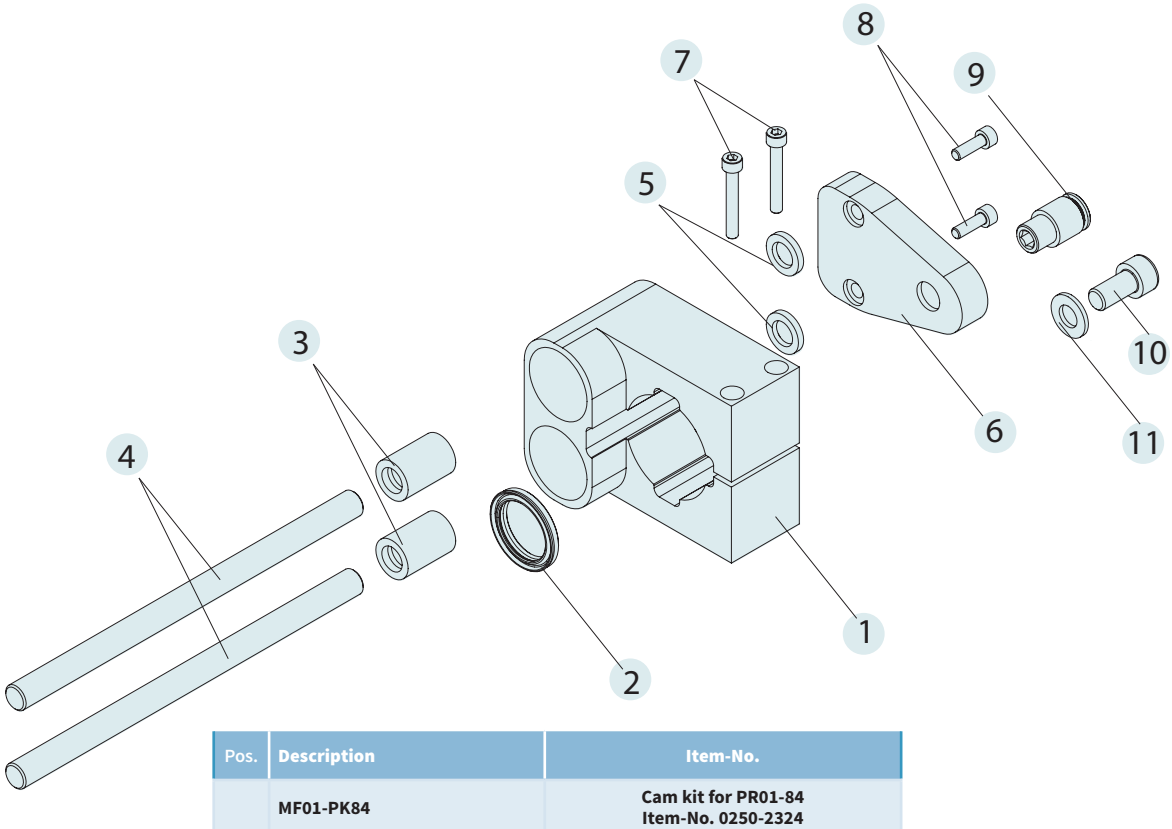


Pos.	Description	Item-No.
	MF01-BK52	**Brake kit Linear Rotary Motor for PR01-52 Item-No. 0250-2344**
	consisting of:	
1	Mounting Flange	MF01k-PR01-52x40-37 Art-Nr. 0260-0152
2	Wiper	PAW01-20 Item-No. 0150-3112
3	Brake ring	MF01-BR-52
4	Cam shaft	MF01k-KS12x200
5	Adjusting washer	M8
6	Adapter	MA01-PR01-52-37/20 Item-No. 0250-0128
7	Socket screw (2x)	MF01k-KS12x200 Art-Nr. 0260-0250
8	Socket screw	M5x14 / ISO4762
9	Socket screw	M8x18 / DIN7984
10	Pneumatic fitting	for 6mm hose 1/8"
11	Pnumatic brake	Item-No. 0150-5052

Cam kit

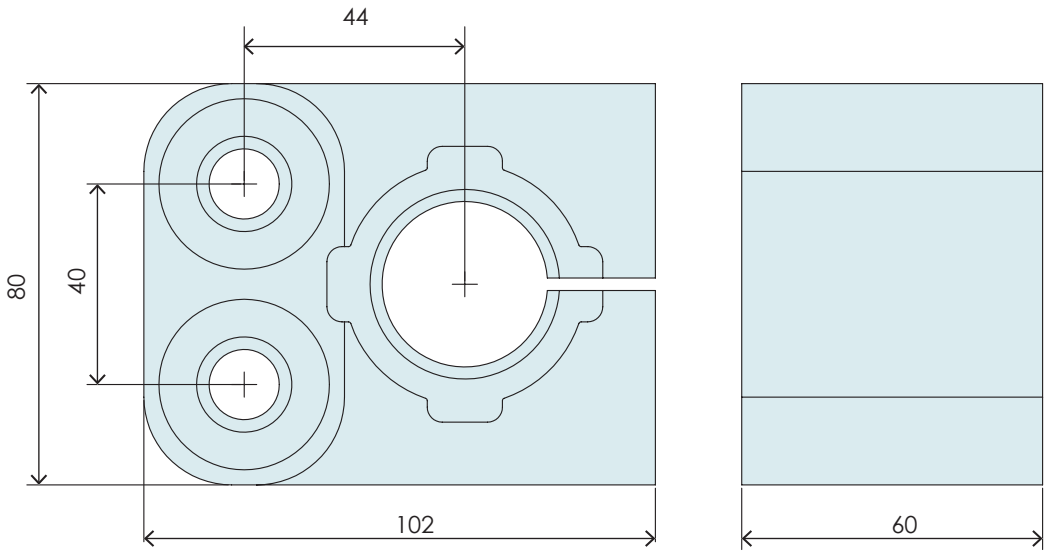
The multi-part cam kit provides the user with a simple way to couple the linear-rotary motor to an emergency cam kit. The cam guide moves the moving part of the linear-rotary motor out of the collision zone, forcing it upward, when the power is lost. This effectively prevents the axis from colliding with an object.

OVERVIEW



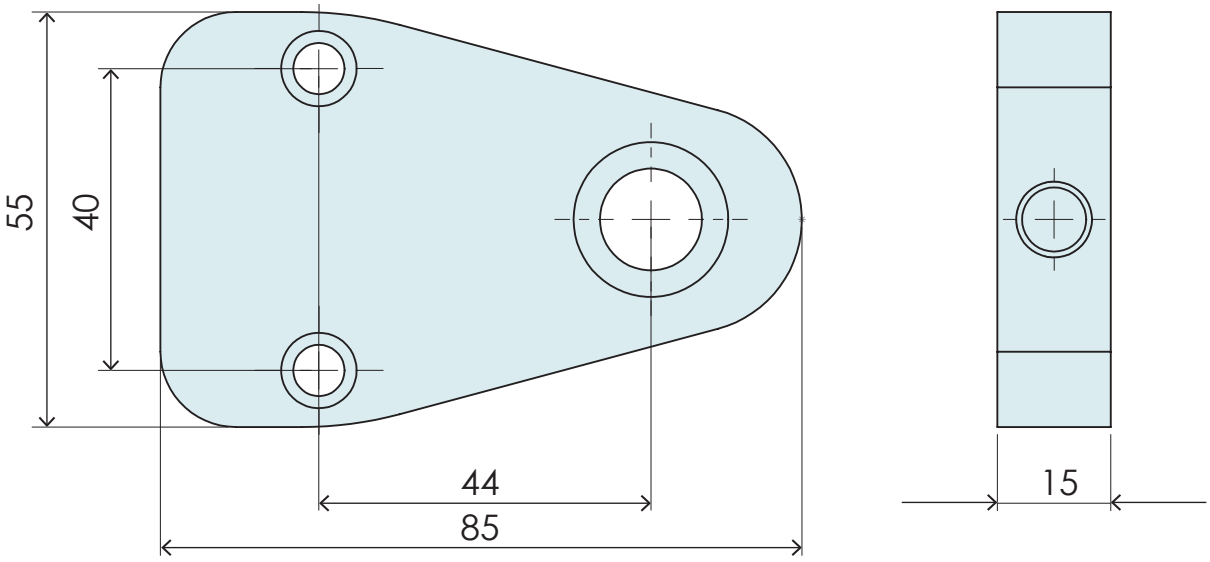
Pos.	Description	Item-No.
	MF01-PK84	**Cam kit for PR01-84 Item-No. 0250-2324**
	consisting of:	
1	Cam flange	MF01k-PR01-84x80-K 0260-0151
2	Wiper	PAW01-28 Item-No. 0150-3133
3	Linear ball bearings	2x LBBR 12-2LS
4	Guiding rods	2x MF01k-KS12x200 Length 200 mm
5	Shaft seals	2x SP-12x19x3 Item-No. 0230-0018
6	Adapter	MA01-PR01-84x80-K
7	Socket screws	2x M5x35 / ISO 4762
8	Socket screws	2x M5x14 / ISO 4762
9	Pneumatic fitting	for 10 mm hose 1/ 4“
10	Socket screws	M10x14 / DIN 7984
11	Adjusting washer	M10

MF01-PR01-84x80-K



Item	Description	Weight [g]	Item-No.
MF01-PR01-84x80-K	Linear Rotary Motor Cam-Flange	610	0250-2323

MA01-PR01-84x80-K



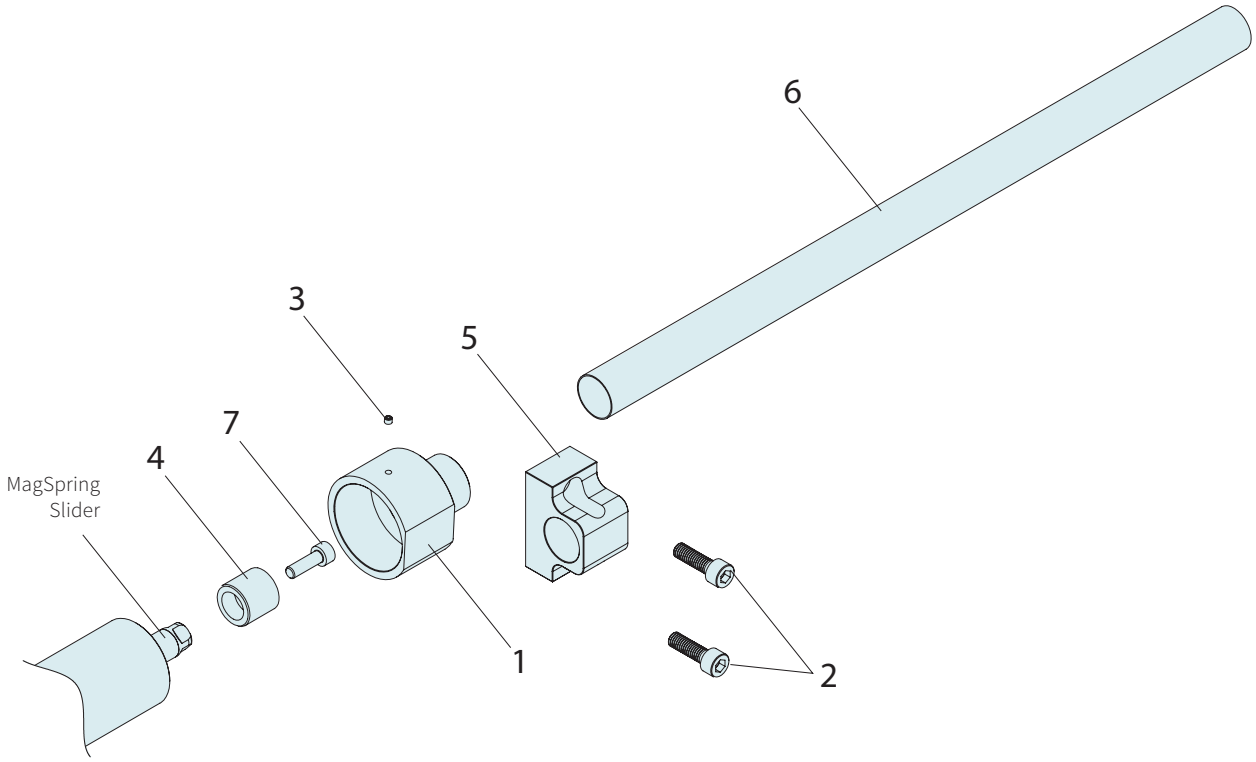
Item	Description	Weight [g]	Item-No.
MA01-PR01-84x80-K	Cam Kit Adapter	125	0250-0130

MagSpring Cover

LinMot offers a cover set for stabilizing a long MagSpring slider.

A stainless steel tube in which the slider rod is then guided is mounted on the housing of the rotary motor. This set is required for all large PR01-84 linear-rotary motors with a stroke of 300 mm.

OVERVIEW

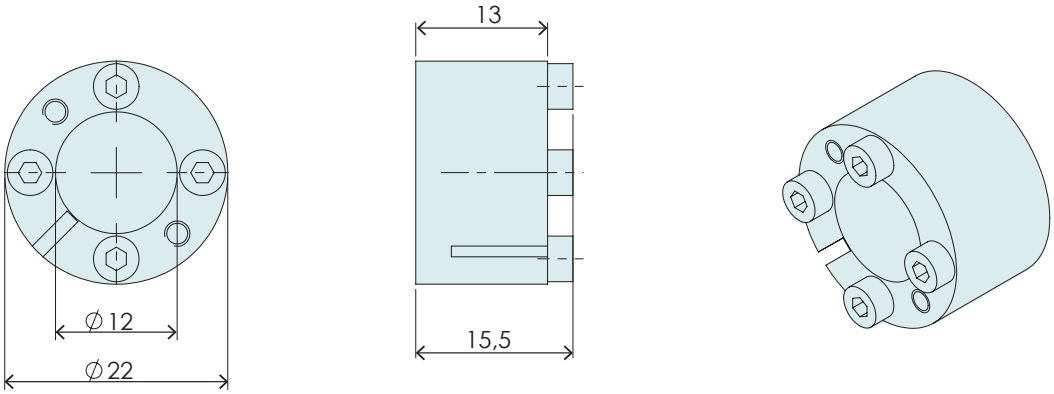


Pos.	Description	Item-No.
	ML01-AS300	**MagSpring cover for PR01-84x -300 Item-No. 0250-2345**
	consisting of:	
1	Extension flange	MS01k-EF37
2	Socket screw (2x)	M6x16 / ISO4762
3	Hex socket set screw with cone point	M3x3 / ISOP4027
4	Plain bearing	ML01k-GL17.9x17
5	Spacer	ML01k-DF37
6	Cover tube	ML01k-AR19x350
7	Socket screw	M5x14 / ISO4762

Shaft-Hub Clamping

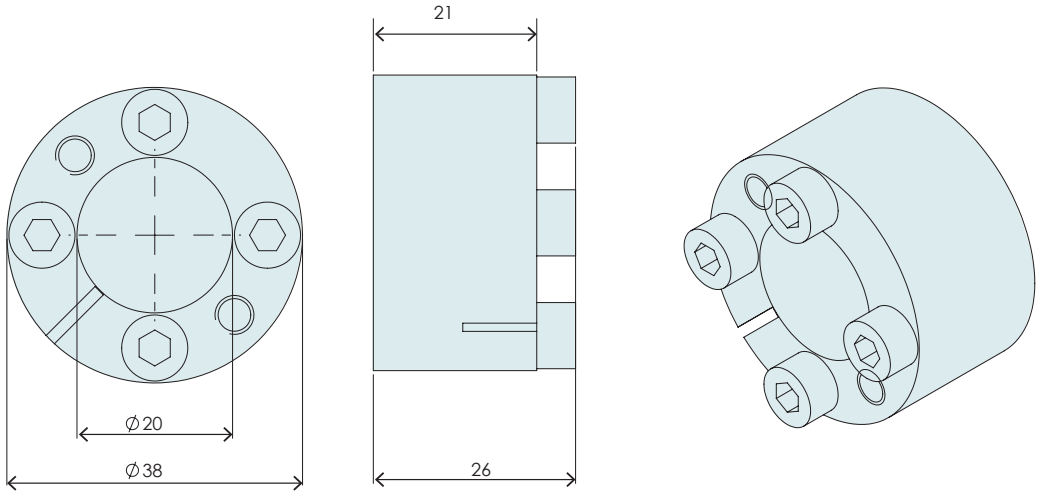
Because linear-rotary motors perform both rotary and linear motions, the type of mounting must be able to support both torque loads and forces in the longitudinal direction. Clamping sets that allow simple, fast installation of the load mass are available for this purpose. They provide a force-fit connection produced by means of two conical rings. The completely eliminates the need to use drivers and produce grooves.

RS01-SS12x22



Item	Description	Weight [g]	Item-No.
RS01-SS12x22	Shaft-hub clamping for 12mm shaft	22	0230-0101

RS01-SS20x38



Item	Description	Weight [g]	Item-No.
RS01-SS20x38	Shaft-hub clamping for 20mm shaft	100	0230-0100

ACCESSORIES SERVO DRIVES

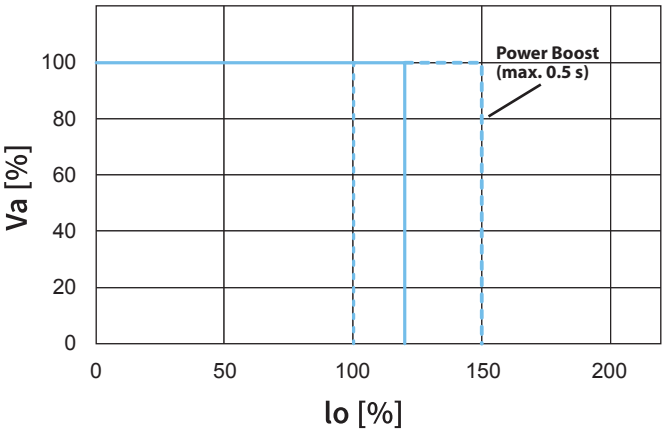
- Switched-Mode Power Supplies
- Transformer Supplies
- Regeneration Resistors
- Connector Cables and Converters
- Control Box
- EMC Filters

ACCESSORIES SERVO DRIVES

Power Supplies
24 V and 72 V

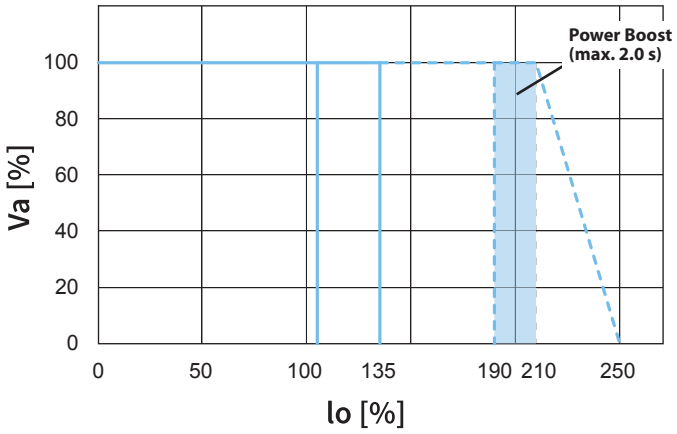
Power Supplies	S01-24/500	S01-72/500	S01-72/1000
Input			
Input voltage range	90...132VAC / 180...264VAC automatical switchover		AC 3 x 340-550V
Power frequency	50/60Hz		50/60Hz
Efficiency	typ. 86%	typ. 88%	typ. 91,5%
Input current limitation	≤ 70A$_{peak}$ typ. cold, ≤ 150A$_{peak\ factory\ setting}$		≤ 70A$_{peak}$ typ. cold, ≤ 150A$_{peak}$ hot
Internal fuse	16ATH/250VAC		
External fuse			16A (IEC), 20A (USA) required
Output			
Preset range Vo	22 - 29VDC, factory setting 24VDC ± 0.5% (Vo will be saved after 1s)	54 - 80VDC, factory setting 24VDC ± 0.5% (Vo will be saved after 1s)	72V: 56 - 80VDC factory setting Vo$_{nom}$ ± 0,15/0,2V
Max. Ouputpower	480W - Powerboost 720W at (Vo≥ Vo$_{nenn}$)		1000W
Powerboost (only in Boostmode)	up to 150% (see chart)		up to 190 - 210% (see chart)
Ripple	120mV$_{ss}$ typ.		72V: 40mV$_{ss}$ typ.
Noise voltage (20MHz)	200mV$_{ss}$ typ.		200mV$_{ss}$ typ.
Temperature coefficient	≤ 0,025% / K		≤ 0,025% / K
Start-up delay	< 1,5s (at 230VAC)		250 ms typ.
Rise time	40 ms typ.	80 ms typ.	72V:20ms typ./155ms typ.at 50.000 µF load
Back feeding voltage	up to 35Vdc	up to 100 Vdc	up to 100 Vdc
Serial connection	yes (max. 2 identical power supplies)		yes, max. 2 identical power supplies
Parallel connection	yes - only in parallel mode (max. 3 identical power supplies)		yes, max. 3 identical power supplies
Regulation			
Line regulation	< 0.2% for Vo at Vi$_{min}$ - Vi$_{max}$		< 0.3% for Vo at Vi$_{min}$ - Vi$_{max}$
Load regulation	< 0.5% for Vo at Io 0 - 100% Boost-M. < 3.0% for Vo at Io 0 - 100% Parallel-M.		< 0.5% for Vo at Io 0 - 100% single operation < 3% for Vo at Io 0 - 100% parallel operat.
Response time	typ. 1ms at Io 20 - 80%		typ. 1ms at Io 20 - 80%
Protection and Controlling			
Overtemperature protectio	Switches off if inside temperature becomes to high, reconnection with hysteresis		Switches off if inside temperature becomes to high, reconnection with hysteresis
Safety/Standards	IEC60950 / UL60950 / UL508 / CSA22.2-60950 / CSA22.2-107.1 / IP20, safety class 1 / pollution degree 2		EN 60950-1 / IEC 60950-1 / VDE 0160 safety class I / VDE 0100 / IP20 CSA-C22.2 No 107 / CSA-C22.2 No. 60950-1-03 UL Std. 60950-1 / UL Std. 508 (Operation in Delta mains only for UL508) SELV-output according EN60950-1 at 48V pollution degree 2
EMV			
Mains feedback / PFC	EN 61000-3-2 Class A only with ext. PFC 12mH/4,5A/230VAC		
Flicker	EN 61000-3-3		EN 61000-3-3
Interference immunity	EN 61000-6-2 Industrial generic standard		EN 61000-6-2
ESD	EN 61000-4-2 8/15KV		EN 61000-4-2 8/15 kV
Electrical fields	EN 61000-4-3 noise level 10V/m (Krit. A)		EN 61000-4-3 noise level 10V/m
Burst	EN 61000-4-4 4KV (Krit.A)		Input: EN 61000-4-4 4kV / Output: EN 61000-4-4 2kV
Surge	EN 61000-4-5 4/2KV (Krit.A)		Input: EN 61000-4-5 2/4kV / Output: EN 61000-4-5 0,5kV
HF Immunity	EN 61000-4-6 noise level 10V (Krit.A)		EN 61000-4-6 noise level 10V
Voltage drop	EN 61000-4-11		EN 61000-4-11
Interference emission	EN 61000-6-4 Industrial generic standard EN 55011 class B, Radiation depends on assembly		EN 61000-6-3 / EN 61204-3
Operating Data			
Temperature range	-25°C...70°C integral, temperature regulated fan, sucking in air from below		-25...+70°C, integral, temperature controlled fan, air intake bottom-up (fan swichted on/off in two steps dependent on temperature)
Derating	3% / K ab +60°C		2% / K at +60°C
Weight	1.0 kg		2.0 kg
Mechanics			
Assembly	All systems can be snapped onto a symmetrical 35mm DIN-rail accord- ing to EN 50022 with a diameter of 1 to 2.5 mm or directly be screwed onto the wall.		All devices can be attached to a back wall using the mounting tabs.

CURRENT LIMITING CHARACTERISTICS (TYP.) S01-24/500 AND S01-72/500



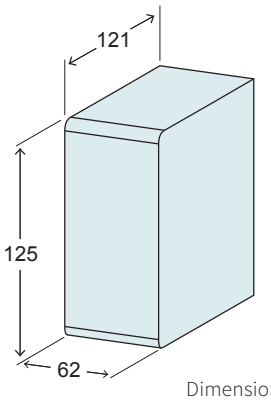
Up to 150% I_{nom} possible for 500ms, then the power boost is min. 500ms not available. (Indications for boost mode only).

CURRENT LIMITING CHARACTERISTICS (TYP.) S01-72/1000



Start-up takes place with power boost between 190% and 210% of the nominal current for a period of approx. 2s. You can use power boost also in running operation.

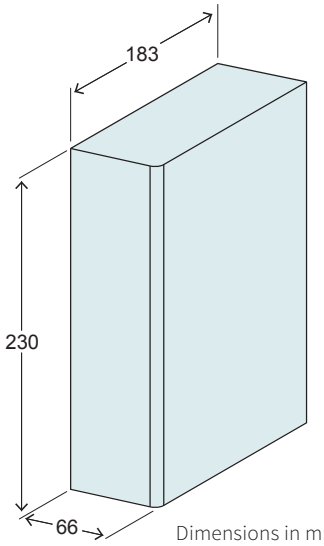
DIMENSIONS S01-24/500 AND S01-72/500



Dimensions in mm

The distance between the surrounding components and the air admission and air exit holes should be at least 20 mm. Please ensure that exhaust air is not immediately sucked in again.

DIMENSIONS S01-72/1000



Dimensions in mm

Operation in any assembly position possible. The distance between the surrounding components and the air admission and air exit holes should be at least 50 mm. Please ensure that exhaust air is not immediately sucked in again.

ORDERING INFORMATION

Item	Description	Item-No.
S01-24/500	Power Supply 24V/500W, 1x120/230VAC	0150-2480
S01-72/500	Power Supply 72V/500W	0150-1874
S01-72/1000	Power Supply 72V/1000W	0150-1872

Transformer Supplies

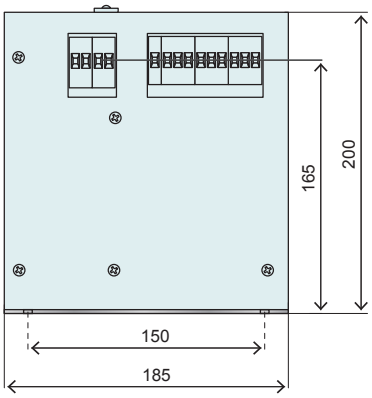
Modern T01 transformer power supplies meet international specifications and have been designed and developed to the following criteria:

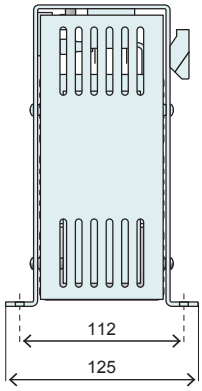
- Input ranges:
  1x208VAC / 1x220VAC / 1x230VAC / 1x240VAC
  3x230VAC / 3x400VAC / 3x480VAC
- Three power classes:
  420VA / 900VA / 1500VA
- With integrated bridge inductor, discharge resistor, LED, PTC, secondary protection, and intermediate circuit capacitor
- Easy, stable installation with bolted mount
- Optimal space-saving design

Transformatoren	T01-72/420-1ph	T01-72/420-Multi	T01-72/900-Multi	T01-72/1500-Multi
Power	420 W	420 W	860 W	1140 W
Primary side	AC 208 / 220 / 230 / 240 V	3AC 230 / 400 / 480 V	3AC 230 / 400 / 480 V	3AC 230 / 400 / 480 V
Current	2.57 /.../ 2.25 A	1.1 / 0.7 / 0.6 A	2.3 / 1.3 / 1.1 A	3.5 / 2.0 / 1.7 A
Secondary side	DC 72 V	DC 72 V	DC 72 V	DC 72 V
Current	5.8 A (100% ED)	5.8 A (100% ED) 10 A (35% ED) 15 A (15% ED)	12 A (100% ED) 20 A (35% ED) 30 A (15% ED)	20 A (100% ED) 33 A (35% ED) 50 A (15% ED)
Frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
External fuse secondary side	6.3At (slow blow)	3x230V: 3.15At 3x400V: 2.0At 3x480V: 1.6At	3x230V: 8.0At 3x400V: 4.0At 3x480V: 3.15At	3x230V: 10.0At 3x400V: 6.0At 3x480V: 5.0At
Fuse secondary side	15 A 80 V	15 A 80 V	30 A 80 V	2 x 30 A 80 V
Vector group	Ii0	DYyd	DYyd	DYyd
Loss of copper	≈ 22.5 W	≈ 22.5 W	≈ 38 W	≈ 44.3 W
Loss of iron	≈ 6.8 W	≈ 7.3 W	≈ 12.2 W	≈ 18.7 W
Copper temperature	≈ 71 K	≈ 37 K	≈44 K	≈42 K
Iron temperature	≈ 52 K	≈ 33 K	≈ 38 K	≈ 36 K
Set-up location	up to 1000 m over mean sea level	up to 1000 m over mean sea level	up to 1000 m over mean sea level	up to 1000 m over mean sea level
Cooling	AN	AN	AN	AN
Max. ambient temperature	ta 40°C	ta 40°C	ta 40°C	ta 40°C
tested complying to	VDE 570 (EN61558)	VDE 570 (EN61558)	VDE 570 (EN61558)	VDE 570 (EN61558)
Copper weight	≈ 1.2 kg	≈ 2.35 kg	≈ 3.9 kg	≈ 5.8 kg
Total weight	≈ 6.5 kg	≈ 6.5 kg	≈ 12 kg	≈ 19 kg
Continuous Duty	S1 / 100 %	S1 / 100 %	S1 / 100 %	S1 / 100 %
Insulating material class	B	B	B	B
Protection class	IP 00	IP 00	IP 00	IP 00

The required external fuse (primary side) can be taken from the table.

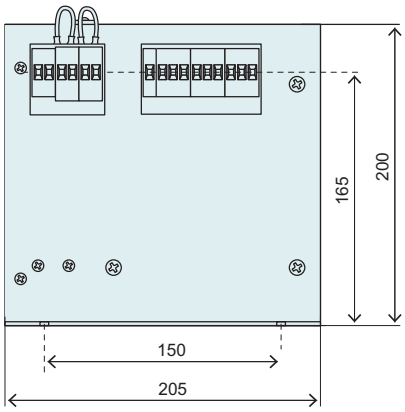
420 VA

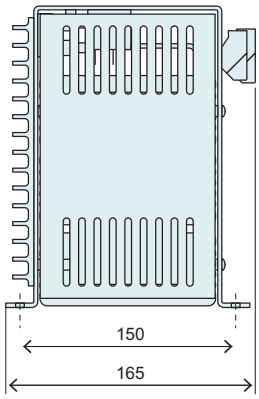




Weight: 6.6 kg
Dimensions mm

Item	Description	Item-No.
T01-72/420-Multi	Transformer Supply 3x230/400/480 VAC, 50/60Hz, 420VA	0150-1869

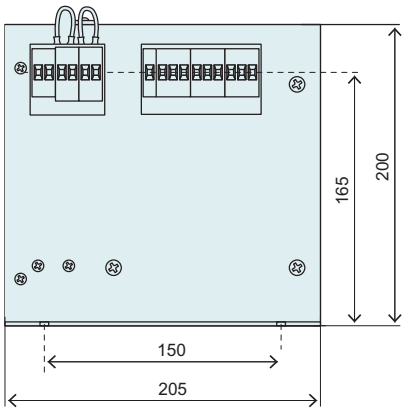


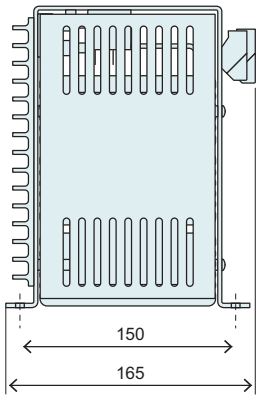


Weight: 10.6 kg
Dimensions mm

Item	Description	Item-No.
T01-72/420-1ph	Transformer Supply 1x208/220/230/240VAC, 50/60Hz, 420VA	0150-1859

900 VA

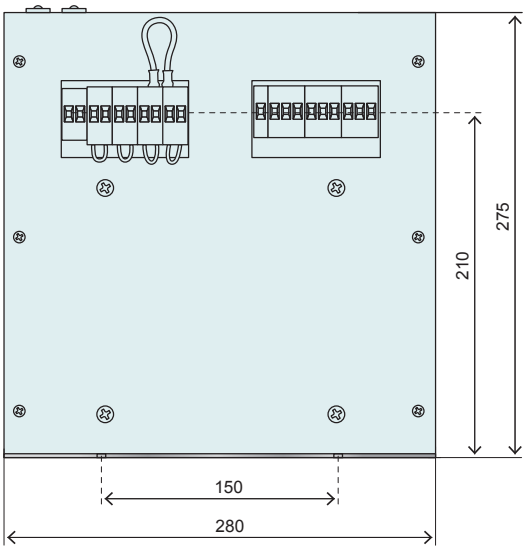


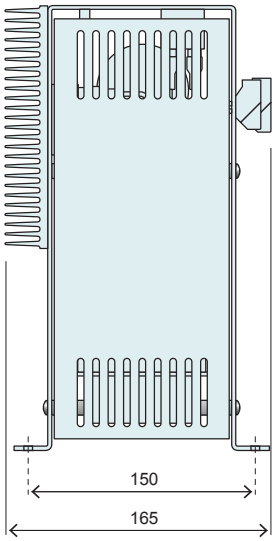


Weight: 10.6 kg
Dimensions mm

Item	Description	Item-No.
T01-72/900-Multi	Transformer Supply 3x230/400/480 VAC, 50/60Hz, 900VA	0150-1870

1500 VA





Weight: 20 kg
Dimensions mm

Item	Description	Item-No.
T01-72/1500-Multi	Transformer Supply 3x230/400/480 VAC, 50/60Hz, 1500VA	0150-1871

Accessories Transformer Supplies		
Item	**Description**	**Item-No.**
TF01-80V/15A	Blade fuse for T01-72/420	0150-1850
TF01-80V/30A	Blade fuse for T01-72/900 & 1500	0150-1851

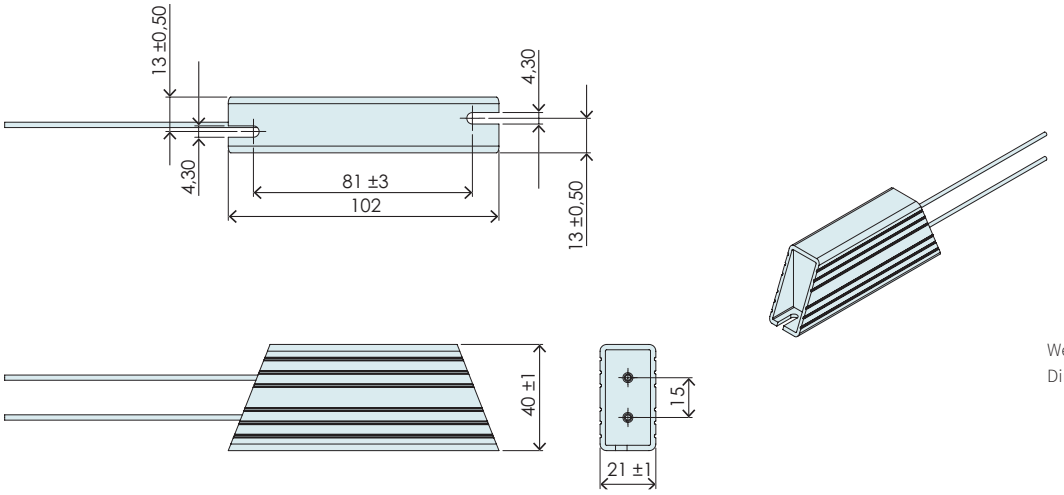
Regeneration Resistorst

The regeneration or braking resistor is connected to the integrated regeneration stage of series E1400, E1200, or C1400 drives. The regeneration resistor prevents an impermissible increase in the intermediate circuit voltage when dynamically braking high load masses. The braking resistors are highly durable and have high resistance to voltage and impulses. Complete encapsulation also provides protection against contamination and prevents contact with live high-voltage parts.

	RR01-10/60	RR01-68/100	RR01-68/100-E1400
Resistance range [1]	10 Ω	68 Ω	
Tolerances of resistance [1]	F (1%); G (2%); J(5%); K(10%)	10 %	
Temperature coefficient [1]	-80...200 ($10^{-6}K^{-1}$)	-80...200 ($10^{-6}K^{-1}$)	
Insulation resistance [2]	> 20 MΩ	> 20 MΩ	
Operating voltage Ub [3]	1000 V_{AC} (50 Hz)	1000 VAC (50 Hz)	
Testing voltage Up [3]	2500 V_{AC} (50 Hz; 1 min.)	2500 VAC (50 Hz; 1 min.)	
Power rating	60 W	100 W	
Derating of power	from 40 °C = P_N up to 200 °C = P_N (linear)	from 40 °C = P_N up to 200 °C = 0.25 P_N (linear)	
Impulse energy	500 Ws	1000 Ws	
Max. Impulse energy [4]	10 kWs	35 kWs	
Protection level	IP 65	IP 65	
Climatic category (IEC68-1)	40 / 155 / 21	40 / 155 / 21	
Temperature range	-40...200 °C	-40...200 °C	
Langzeitkonstanz (P_N 40 °C 1000h)	3%	3%	
Long term environmental test (IEC 115 - 1/23)	2%	2%	
Periodical change of temperature (IEC 68 2.14)	2%	2%	
Safe max. load of vibration	40 ms^{-2}	40 ms^{-2}	
Kind of terminals	Wire	Wire	Wire with Connector (Art. 0150-3445)
Leitungslänge	300 mm	300 mm	

[1]) Without consideration of the wire
[2]) Voltage = 1000 VDC
[3])Deviating operating voltage Ub and test voltages Up are possible.
[4]) Depending on the resistance value

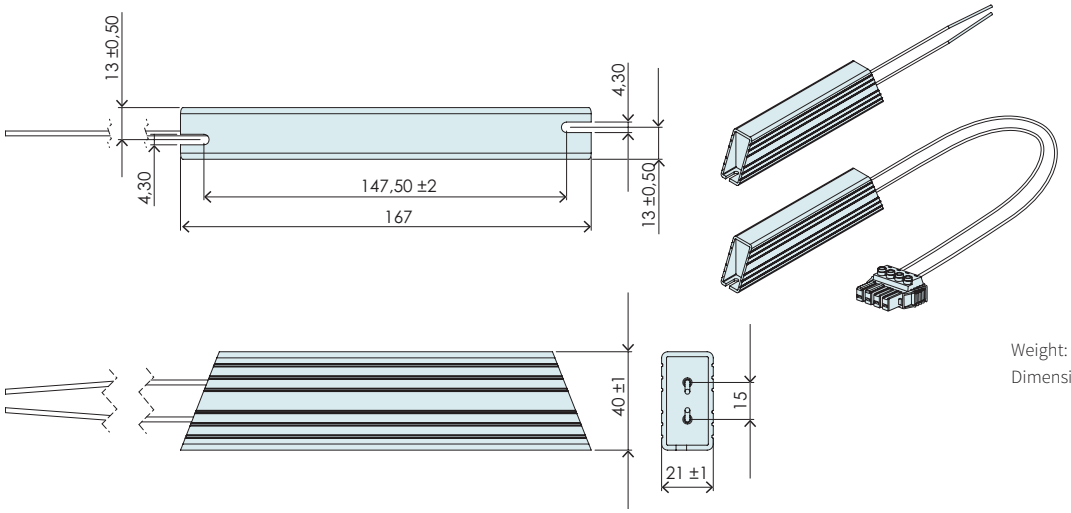
RR01-10/60



Weight: 0.14 kg
Dimensions mm

Item	Description	Item-No.
RR01-10/60	Regeneration Resistor 60W	0150-3088

RR01-68/100



Weight: 0.24 kg
Dimensions mm

Item	Description	Item-No.
RR01-68/100	Regeneration Resistor 100W	0150-3581
RR01-68/100-E1400	Regeneration Resistor for E1400 with Connector Item-No. 0150-3445	0150-3373

Connector Cables and Converters

LinMot servo drives can be configured via the RS232 interface or CAN-Bus. CAN-Bus can be used to configure several drives at the same time. CAN-Bus is also used for configuration if the serial interface is used for actuation by an upper-level controller.

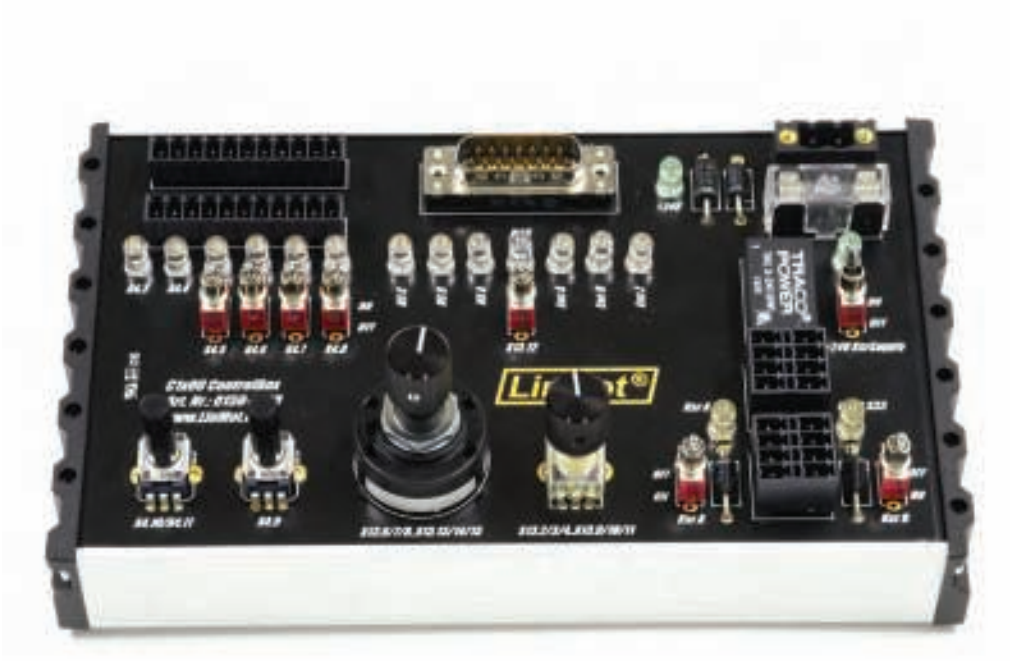
Since the RS232 interface is not galvanically isolated on many PCs and laptops, and a variety of commercially available USB-RS232 converters does not provide this either, LinMot offers a separate galvanically isolated USB-RS232 converter. Additionally, LinMot offers also prefabricated adapter and / or config cables.

Item	Description	Item-No.
RS232 PC config. Cable 2.5 m	for C1100/C1200/E1200/E1400/M8000	0150-2143
AC01-RJ12/Df-2.5-RS1	for A1100, D-Sub9 RS232 PC config. cable 2.5 m	0150-3544
USB-CAN Converter Pro	USB to CAN Converter for LinMot Drives	0150-3532
USB-RS232 Converter (isolated)	for C1100, C1200, C1400, E1200, E1400 drives	0150-2473
AC01-RJ45/RJ12-2.5-RS1	Adaptor cable for A1100 drives	0150-2477
RJ45/RJ45-0,2-ML1	MC-Link Cable 0,2m	0150-3308

Control Box

The B01-C1x00 control box allows the user to quickly commission C1100 and C1200 series drives. The device allows manual actuation of control signals and is primarily intended for test operations or initial commissioning.

- All digital and analog IOs can be defined.
- The ABZ encoder and Hall-effect switch inputs can be simulated.
- Galvanically isolated 24V power supply
- With 1S safety relay



Item	Description	Item-No.
B01-C1x00 24VDC	Control box for C1x00 (incl. cables)	0150-2130

EMV / RFI Filter

EMV / RFI Filter for Inverters and
Power Drive Systems.

- 16A current rating
- 480V/50°C ratings for world compatibility and simple specification
- slim book-style housing
- designed for long cable lengths (50m/54yds+)

UL / CSA: FN 258 up to 180 A (ex. -180-07)

UL / CSA: HV and HVIT up to 600VAC

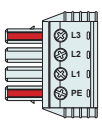
3-Phase Filter	NF01-FN258-16-07
Maximum continuous operating voltage:	480VAC @ 50°C
Operating frequency:	DC up to 60Hz
High potential test voltage:	P → E 2650VDC for 2 sec P → P 2100VDC for 2 sec
Protection category:	IP20
Overload capability:	4x current rating at switch on 1.5x current rating for 1 Minute → Einmal pro Stunde
Temperature range (operation and storage):	-25°C to +100°C (25/100/21)
Flammability corresponding to:	UL 94V-2 or better
Design corresponding to:	UL 1283, CSA 22.2 No.8 1986, IEC/EN 60939
MTBF @ 50°C/400V (Mil-HB-217F):	220'000 h
current rating @ 50°C (40°C):	16A (17.5A)
Typical drive power rating [1]	7.5kW
Leakage current @ 440VAC / 50Hz [2]	18.3mA
Power loss @ 25°C / 50Hz:	20W
Weight:	1.4k g

FILTER INPUT / OUTPUT CONNECTOR:

Input Connector

Solid wire	6 mm²
Flex wire	4 mm²
AWG Type Wire	AWG 10
Recommended torque	0.6 – 0.8 Nm

Output Connector

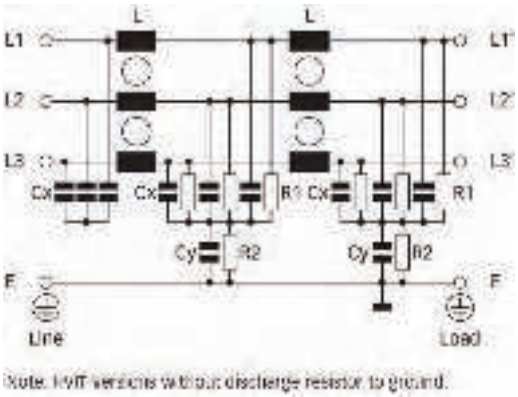


Leitungslänge	300mm ±10mm
LinMot-connector type:	X30 Stromversorgung for E1400

1) Calculated at rated current, 440VAC and cos phi = 0.8. The exact value depends upon the efficiency of the drive, the motor and the entire application.

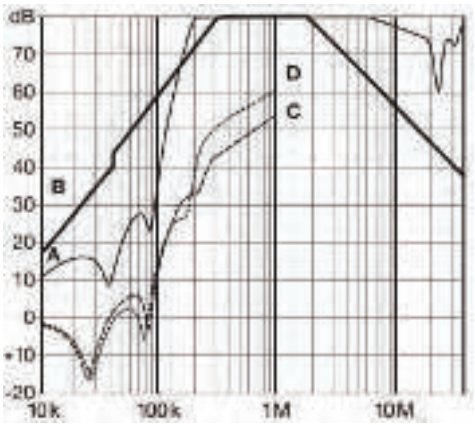
2) Maximum leakage under normal operating conditions at 440VAC. **Note**: if two phases are interrupted, worst case leakage could reach 5.7 times higher levels.

ELECTRICAL SCHEMATIC



Note: HVIT versions without discharge resistor to ground.

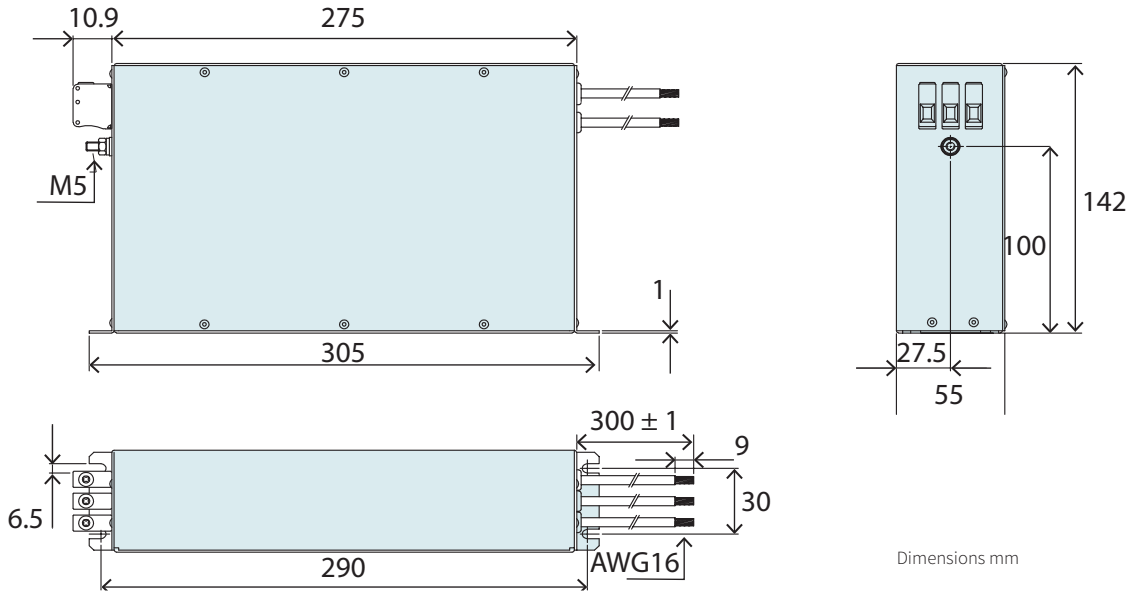
TYPICAL FILTER ATTENUATION



Per CISPAR 17

- A = 50Ω/50Ω sym
- B = 50Ω/50Ω asym
- C = 0.1Ω/100Ω sym
- D = 100Ω/0.1Ω sym

DIMENSIONS



Dimensions mm

Item	Description	Item-No.
NF01-FN258-16-07	Filter for E1400 Drives (Motor cable up to 50m)	0150-2359

EMV / RFI Filter

DIN-Rail EMV / RFI Filter with Minimum Leakage Current.

- Compact state-of-the-art filter concept
- Light weight plastic enclosure design
- Minimized filter leakage current
- Hinged safety covers
- Revolutionary embedded filter terminals
- Environmental friendly design without potting compound

Design protected by European patent (EP 1727280)

3-Phase Filter	NF01-FS34985-20-71
Maximum continuous operating voltage:	3x 520/300 VAC
Operating frequency:	DC up to 60Hz
High potential test voltage:	P –> E 3000 VDC for 2 sec (HP Typen)
Protection category:	IP20
Overload capability:	4x Nennstromm at switch on 1.5x current rating for 1 Minute → Einmal pro Stunde
Temperature range (operation and storage)::	-25 °C to +100 °C (25/100/21)
Flammability corresponding to:	UL 94 V-2 or besser
Design corresponding to:	UL 1283, CSA 22.2 No. 8 1986, IEC/EN 60939
MTBF @ 50°C/400V (Mil-HB-217F):	>200,000 h
current rating @ 50°C (40°C):	20 (21.4) A
Typical drive power rating [1)]	11 kW
Leakage current @ 480VAC / 50Hz [2)]	2.5 mA
Power loss @ 25°C / 50Hz:	6.2 W
Weight:	0.52 kg

FILTER INPUT / OUTPUT CONNECTOR:

Input / Output Connector (cross sections)

Wire	4 - 6 mm^2
AWG Type Wire	AWG 12-AWG 10
Ring / Gabel Kabelschuhe [3)]	max. 11 mm (9.5 mm) / min. Ø 4.3 mm[4)]
Recommended torque	1.0 – 1.2 Nm

1) Calculated at rated current, 480 VAC and cos phi = 0.8. The exact value depends upon the efficiency of the drive, the motor and the entire application.

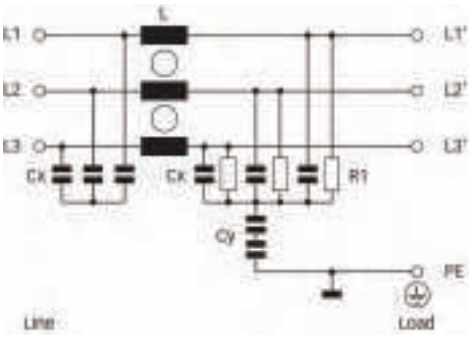
2) Maximum leakage under normal operating conditions.

Note: if two phases are interrupted, worst case leakage could reach up to 10 times higher levels (at 520 VAC 60 Hz).

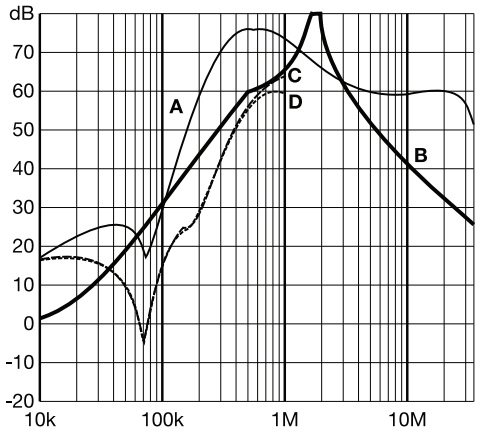
3) LinMot recommends the use of insulated and UL-recognized ring lugs or fork lugs of the appropriate size.

4) Specification in () relates to earth connector.

ELECTRICAL SCHEMATIC



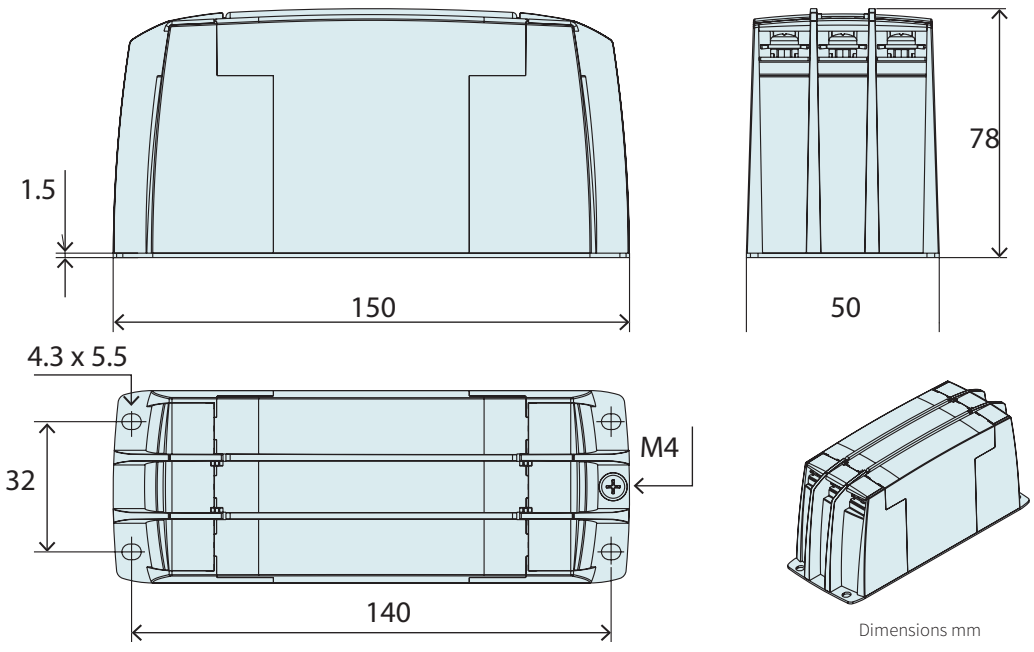
TYPICAL FILTER ATTENUATION



Per CISPAR 17

- A = 50Ω/50Ω sym
- B = 50Ω/50Ω asym
- C = 0.1Ω/100Ω sym
- D = 100Ω/0.1Ω sym

DIMENSIONS



Dimensions mm

Item	Description	Item-No.
NF01-FS34985-20-71	Line Filter for E1400 (motor cable up to 20 m)	0150-2746