

Precision Module PSK 60

Components and Ordering Data

Part number, length R1465 300 00, mm				Guideway	Drive unit	Carriage version							
Reference edge (RE)						Steel				Aluminum			
Version				Screw journal	Ball screw size d ₀ x P			Without cover		Cover plate		Sealing strip	
					12x2	12x5	12x10	Standard	Long	Standard	Long	Standard	Long
				1 carr.	2 carr.	1 carr.	2 carr.	1 carr.	2 carr.	1 carr.	2 carr.	1 carr.	2 carr.
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Ordering example: See "Inquiry/Order" form

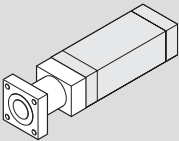
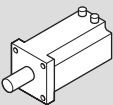
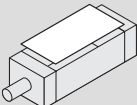
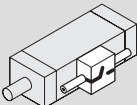

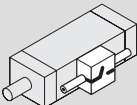

⚠ Please check whether the selected combination is a permissible one (load capacities, moments, maximum speeds, motor data, etc.)!

 d_0 = screw diameter (mm)

P = screw lead (mm)

carr. = carriage(s)

L = length

	Motor attachment			Motor		Type of cover			Switches / Cable duct / Socket-plug	Documentation						
																
	Gear ratio i =	Attach- ment kit ¹⁾	for motor	with brake	without brake	with- out	cover plate	strip		Standard report	Measure- ment report					
	–	00	–	00		00	–	–								
	–	00	–	00		00	01	02								
	–	02	VRDM 368	36	35	00	01	02				Without switch and cable duct	00	02 Friction moment		
		03	MSM 030B	71	70							Switches: – Reed sensor 21-... ³⁾ – Hall sensor 22-... ³⁾	01		02	03 Lead deviation
		04	MSM 020B	69	68											
	–	31	NEMA 23-D ²⁾	00		00	01	02				– Reed sensor 21-... ³⁾ – Hall sensor 22-... ³⁾	01		04 Travel accuracy	
		34	NEMA 23-C ²⁾	00								Cable duct				25
		32	MSK 030C	85	84											
	i = 1	11	MSK 030C	85	84	00	01	02				Switching cam for PSK: – Without cover or with cover plate 30 – With sealing strip 31				
	i = 1.5	12														
	i = 1	13	MSM 030B	71	70											
	i = 1.5	14														

1) Attachment kit also available without motor (when ordering: enter "00" for motor).

2) Use motors complying with the appropriate NEMA specification.
Because of the varying shaft dimensions for NEMA-specification motors, the attachment kit does not include a coupling.

3) Mounting side for switches: left (L) or right (R)

Switch mounting arrangements

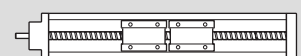
A cable duct is required for installation of the switches.

Refer to "Switch mounting arrangements" for more information on switch types and switch mounting.

Switches may only be mounted to one side of the Precision Module (left or

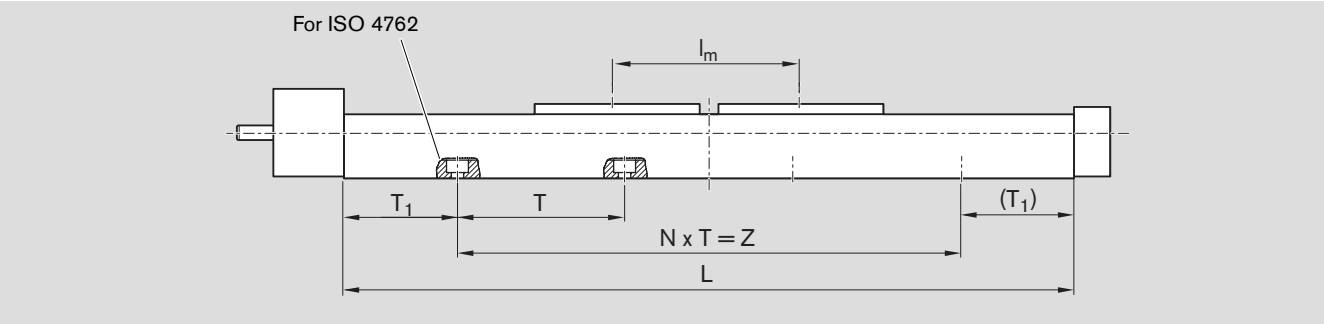
Left (L)

Right (R)



Precision Module PSK 60

Lengths and Hole Spacing



Length L

Type of cover	Number of carriages (carr.)	Carriage version	
		Standard length	Long
Without cover or with cover plate	1	$L = (\text{stroke} + 2 \cdot \text{excess travel}) + 70 \text{ mm}$	$L = (\text{stroke} + 2 \cdot \text{excess travel}) + 85 \text{ mm}$
	2	$L = (\text{stroke} + 2 \cdot \text{excess travel}) + I_m + 70 \text{ mm}$ $I_{m \text{ min}} = 60 \text{ mm}$	$L = (\text{stroke} + 2 \cdot \text{excess travel}) + I_m + 85 \text{ mm}$ $I_{m \text{ min}} = 75 \text{ mm}$
With sealing strip	1	$L = (\text{stroke} + 2 \cdot \text{excess travel}) + 160 \text{ mm}$	$L = (\text{stroke} + 2 \cdot \text{excess travel}) + 215 \text{ mm}$

I_m = center-to-center distance between carriages (consider $I_{m \text{ min}}$)
Stroke = maximum travel of carriage center between the outermost switch activation points

In most cases the recommended limit for excess travel (braking path) is:
Excess travel = 2 · screw lead P

Example
Ball screw 12 x 10
(Ball screw size = $d_o \times P$):
Excess travel = 2 · 10 = 20 mm

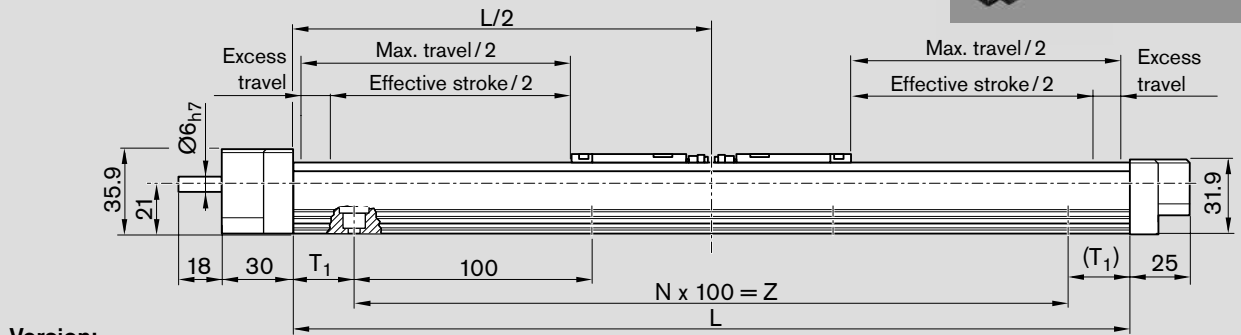
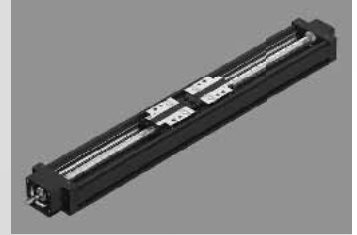
Standard lengths of frame

Length L (mm)	T (mm)	T ₁ (mm)	N	Z (mm)	Mounting holes for ISO 4762 screws M5
150	100	25	1	100	
200	100	50	1	100	
250	100	25	2	200	
300	100	50	2	200	
400	100	50	3	300	
500	100	50	4	400	
600	100	50	5	500	
700	100	50	6	600	
800	100	50	7	700	
900	100	50	8	800	
940	100	20	9	900	

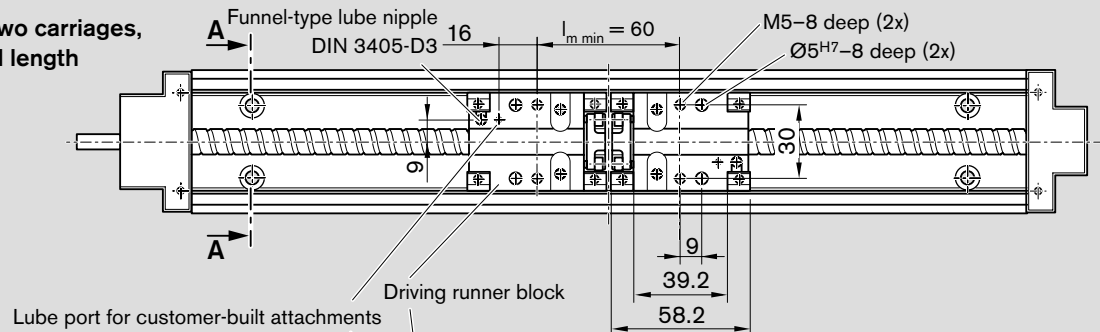
Precision Module PSK 60

Dimension Drawings without Cover

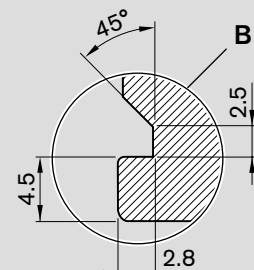
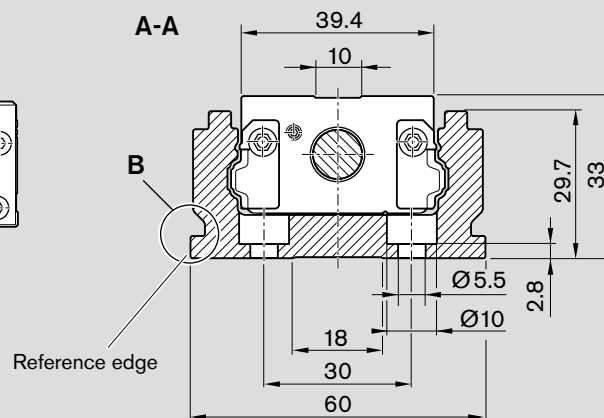
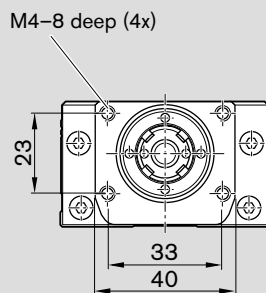
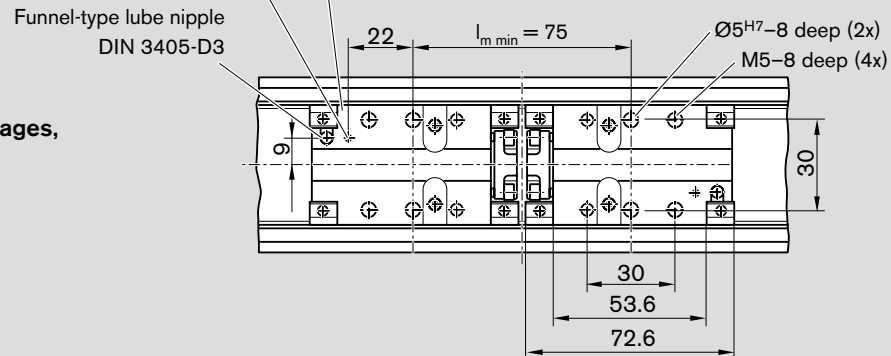
All dimensions in mm
Drawings not to scale



Version:
One or two carriages,
standard length



Version:
One or two carriages,
long



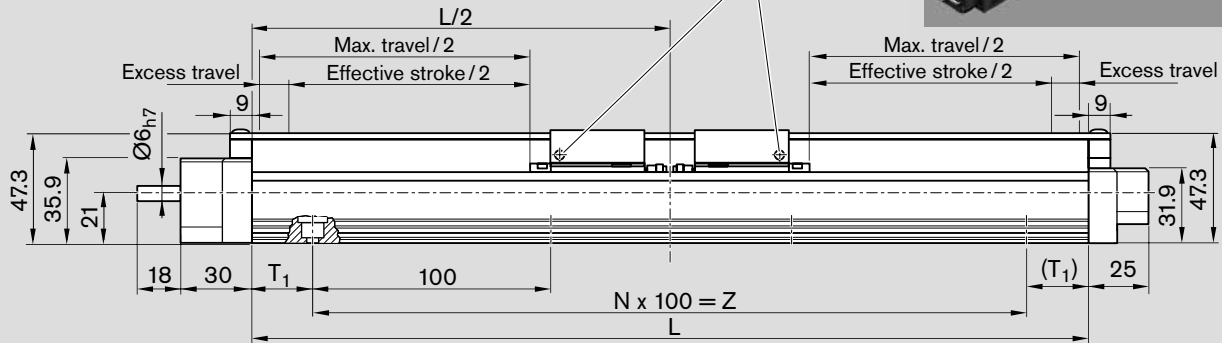
For fastening with
clamping fixtures

Precision Module PSK 60

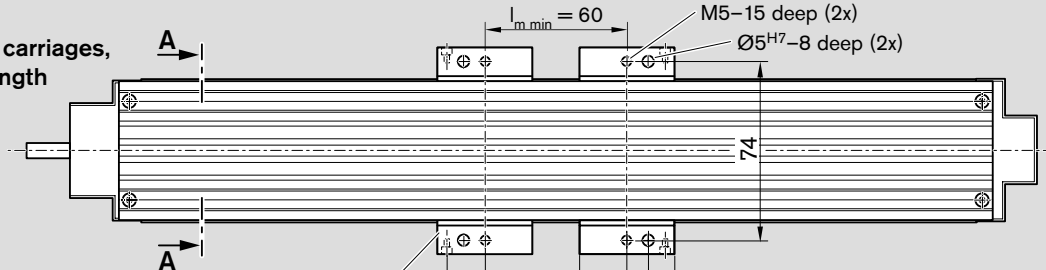
Dimension Drawings with Cover Plate

All dimensions in mm
Drawings not to scale

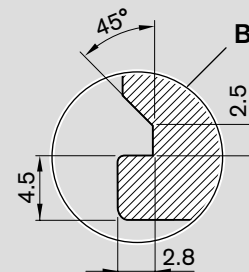
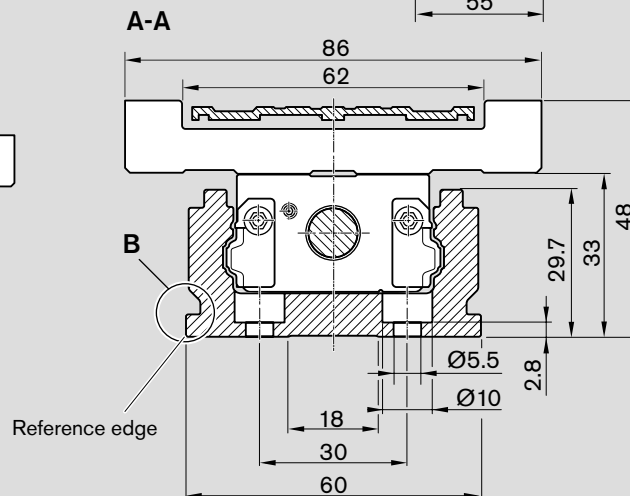
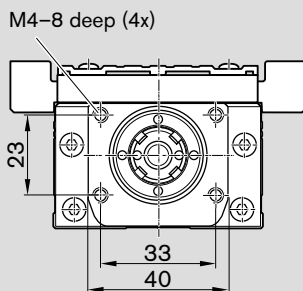
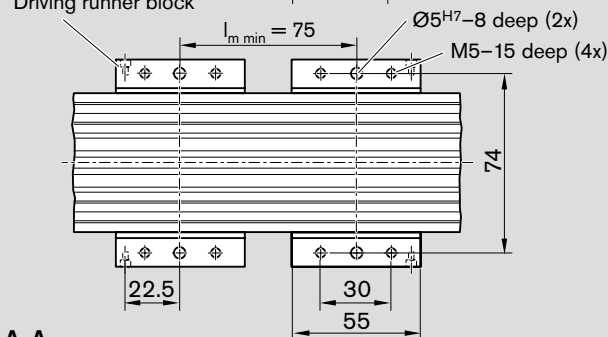
One-point lubrication (grease):
via funnel-type lube nipples DIN 3405-D3
on both sides



Version:
One or two carriages,
standard length



Version:
One or two carriages,
long



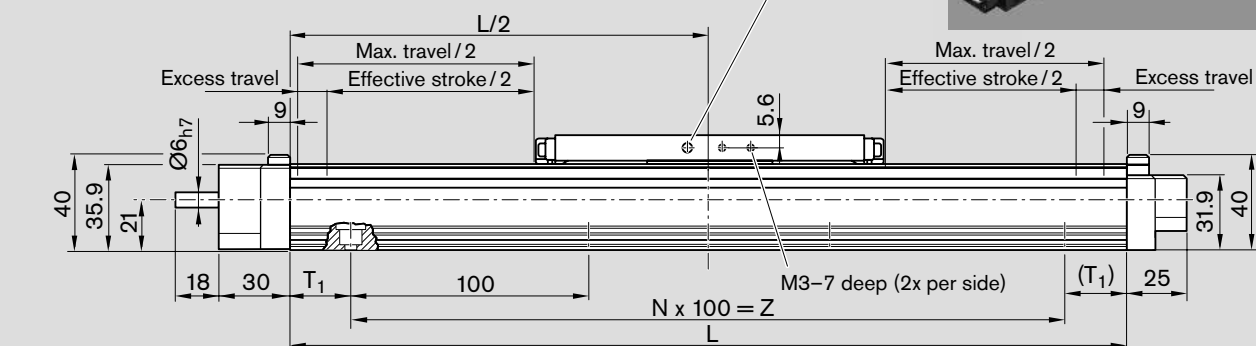
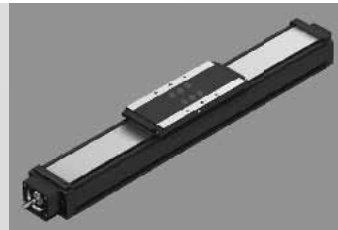
For fastening with
clamping fixtures

Precision Module PSK 60

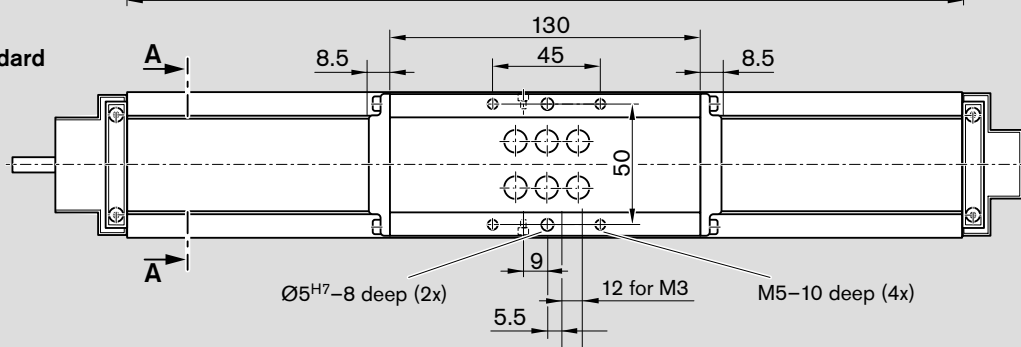
Dimension Drawings with Sealing Strip

All dimensions in mm
Drawings not to scale

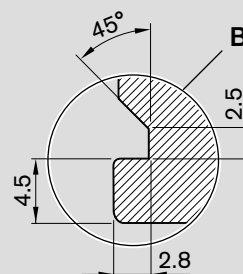
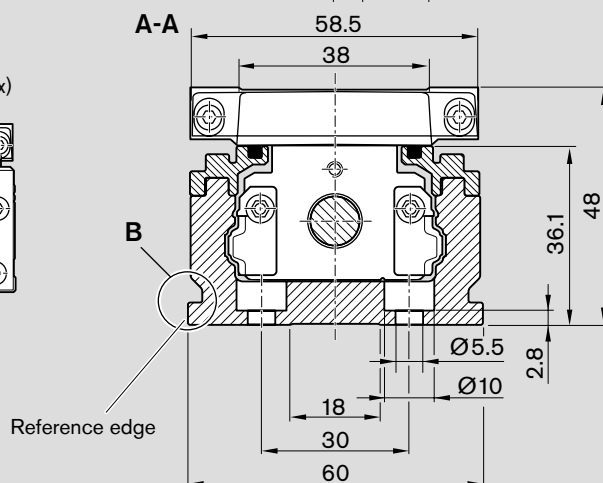
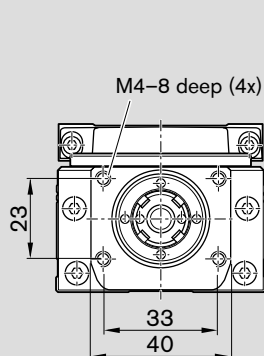
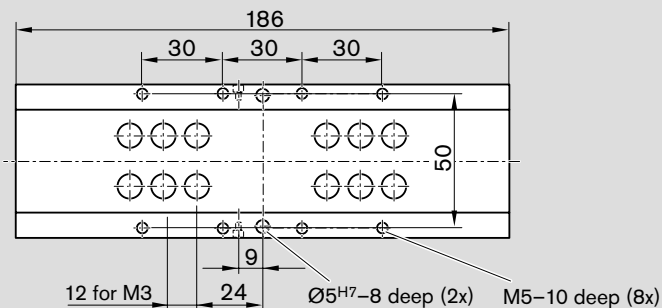
One-point lubrication (grease):
via funnel-type lube nipples DIN 3405-D3
on both sides



Version:
Carriage, standard length



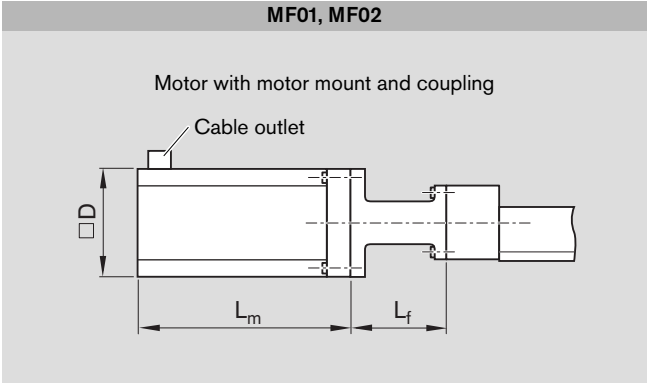
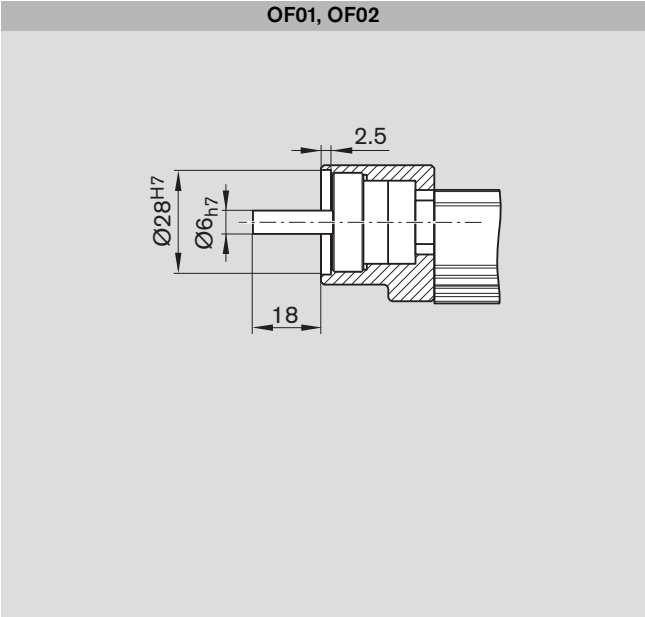
Version:
Carriage, long



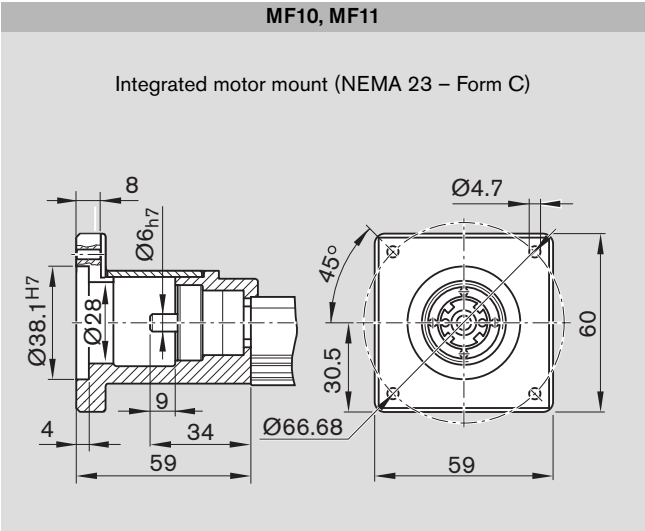
For fastening with
clamping fixtures

Precision Module PSK 60

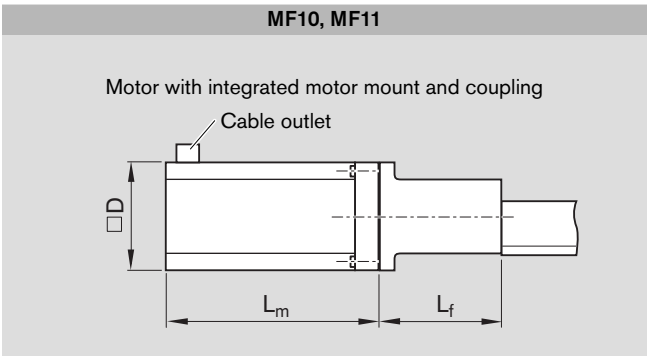
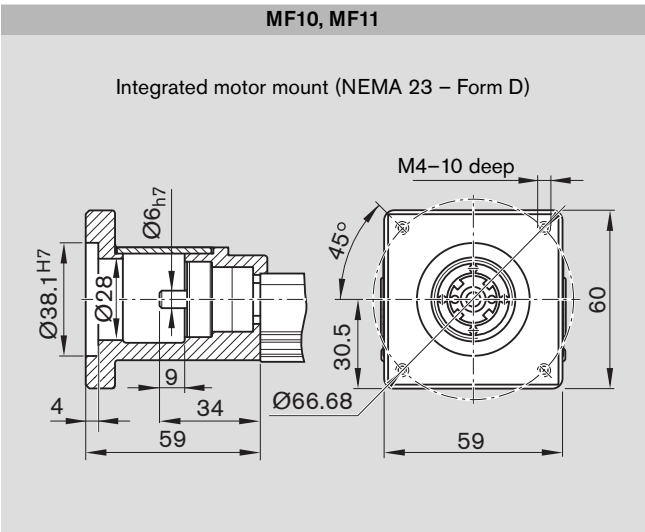
Dimension Drawings, Motor Attachment



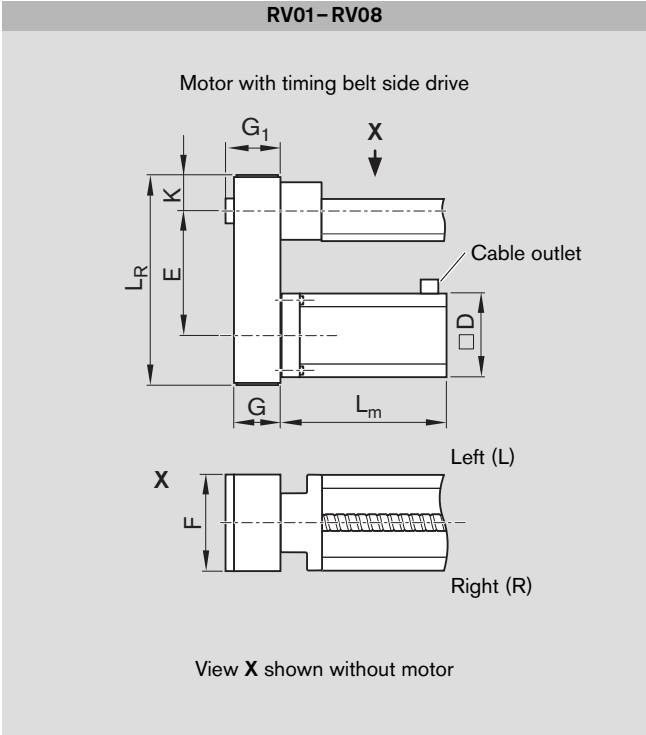
Motor type	D	L _f	Dimensions (mm)	
			without brake	with brake
MSM 030B	60.0	50	111	144
MSK 030C	54.0	50	188	213
VRDM 368	57.2	50	116	157
MSM 020B	42.0	44	109	140



Drawings not to scale!
For further information and dimensions, see “Motors.”



Motor type	D	L _f	Dimensions (mm)	
			without brake	with brake
MSK 030C	54	59	188	213



Version	Motor type	Dimensions (mm)									
		D	E		F	G	G ₁	K	L _m		L _R
			i = 1	i = 1.5					without brake	with brake	
RV01 to RV08	MSM 030B	60	78	75	64.5	37	43.5	33.5	111	144	157
	MSK 030C	54	78	75	64.5	37	43.5	33.5	188	213	154