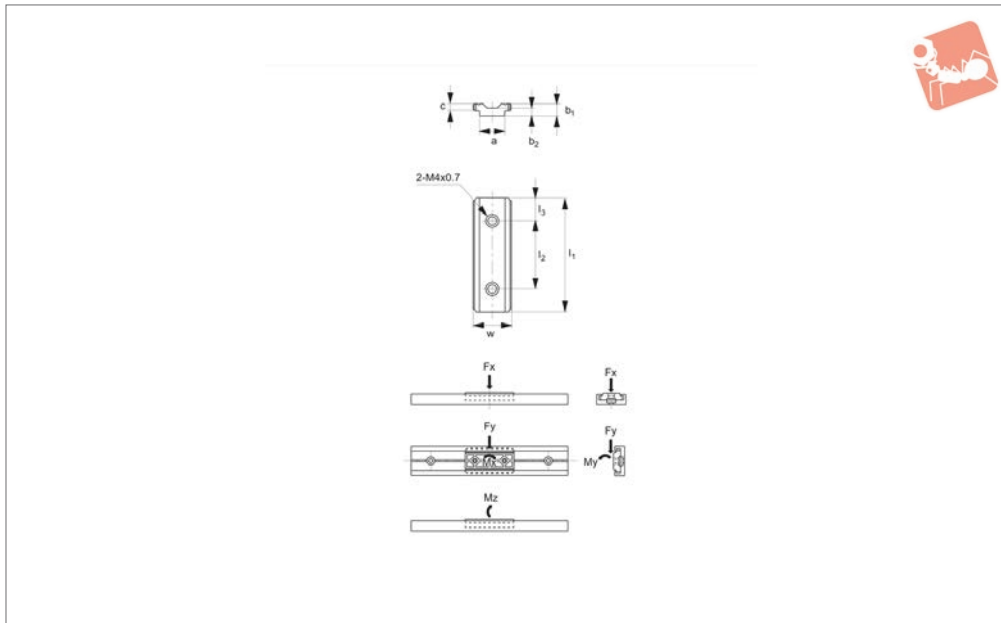




Mini Slide Carriage

for use with mini slide rail P0350

Linear Slides



P0300

LINEAR SLIDES

Material

Body: special low friction polyethylene.
Insert nut: stainless steel, AISI 302.

Technical Notes

Compact design for wide range of small stroke applications.
Provides outstanding performance with lighter movement than ball-bearing slides.
Material values:

- Coefficient of friction μ 0.15
- Coefficient of dynamic friction μ 0.10
- Limited PV value 3Mpa.m/min
 $p_v = p$ (pressure Mpa) x V (slide speed m/min)
- $p = 0.74$ Mpa
- $V = 12$ m/min.

Important Notes

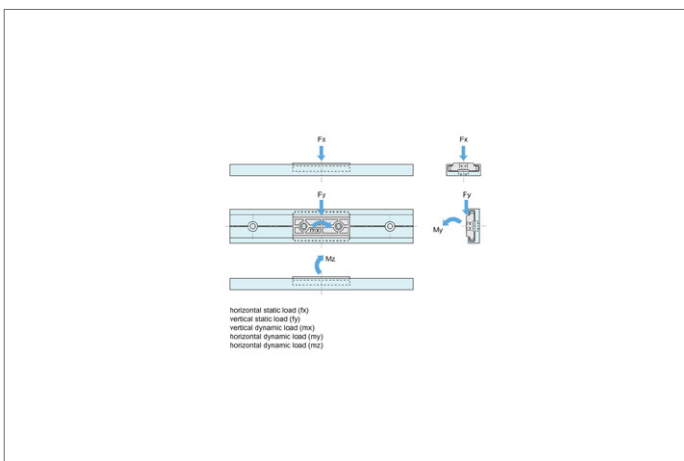
Dynamic and static loads provided as a

guide, please apply following reduction factors for application conditions:

- Low speed/low operation frequency = use 70 to 90% of load rating.
- Moderate speed/high operation frequency = use 35 to 65% of load rating.
- High operation frequency with vibration = use 10 to 30% of load rating.

Order No.	Size	Type	a	b ₁	b ₂	c	w	l ₁	l ₂	l ₃	Weight g
P0300.AC0020	20	Carriage	11.2	5.2	3.5	2.7	16.8	50	30	10	7
P0300.AC0050	30	Carriage	18.0	7.0	-	4.3	25.8	50	30	10	7

Order No.	Horiz. static load f _x kg/f	Vert. static load f _y kg/f	Vert. dym. load m _x kg/f	Horiz. dym. load m _y kg/f	Horiz. dym. load m _z kg/f
P0300.AC0020	30.6	17.8	-	-	-
P0300.AC0050	26.0	15.0	25.0	12.5	12.5





Load ratings

Load rating for mini slider P0300.AC0020 (size 20)

Material values

Coefficient of friction μ 0.15

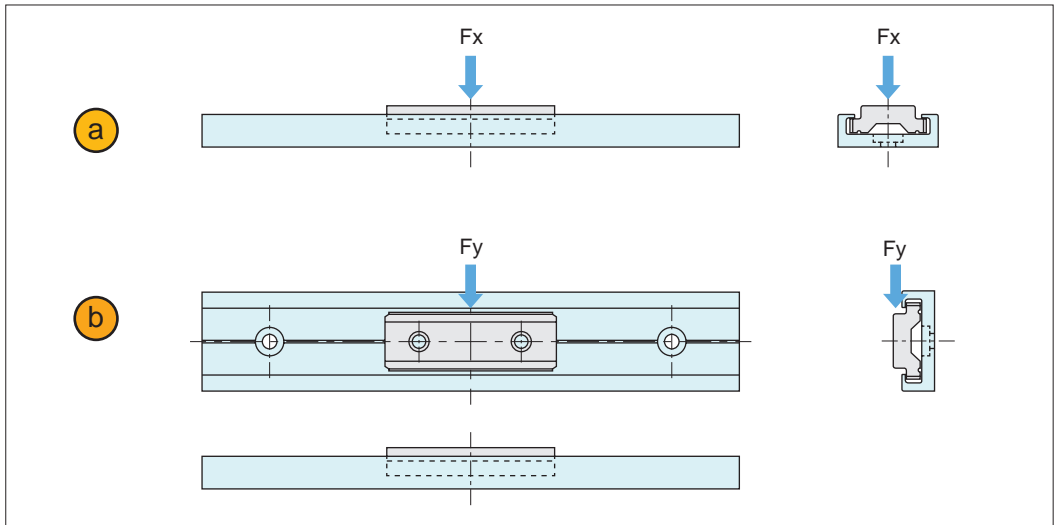
Coefficient of dynamic friction μ_s 0.10

Limited PV value 3 Mpa.m/min

PV = p (pressure Mpa) x V (slide speed m/min)

p = 0.74 Mpa

V = 12m/min



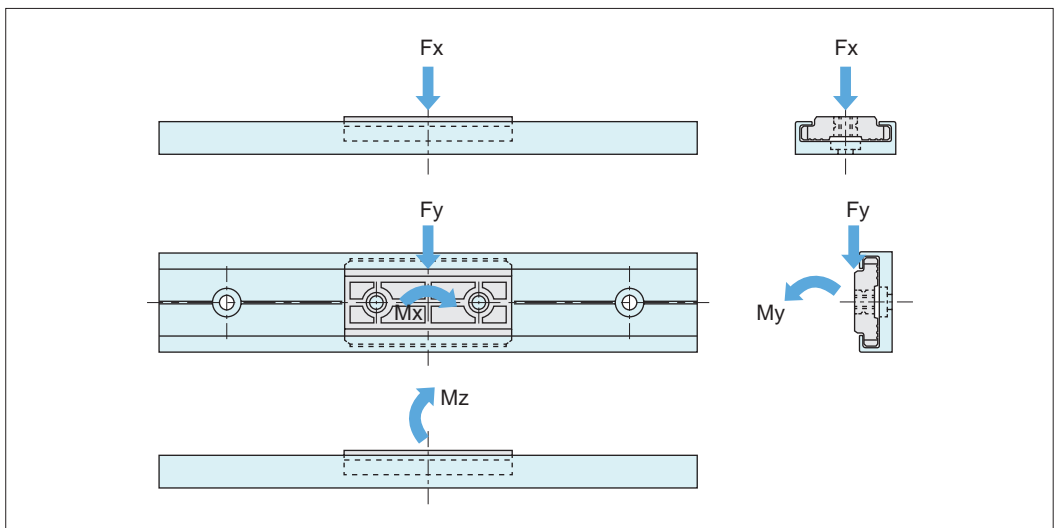
a Horizontal static load F_x

30.6 kgf (67.5 lbs)

b Vertical static load F_y

17.8 kgf (39.2 lbs)

Load rating for mini slider P0300.AC0050 (size 30)



Horizontal static load F_x

26 kgf (57.2 lbs)

Vertical static load F_y

15 kgf (33 lbs)

Vertical dynamic load M_x

25 kgf · cm (21.6 lbs · in)

Horizontal dynamic load M_y

12.5 kgf · cm (10.8 lbs · in)

Horizontal dynamic load M_z

12.5 kgf · cm (10.8 lbs · in)

Important Note: Dynamic and static loads provided as a guide, please apply following reduction factors for application conditions:

Low speed/low operation frequency = use 70 to 90% of load rating.

Moderate speed/high operation frequency = use 35 to 65% of load rating.

High operation frequency with vibration = use 10 to 30% of load rating.