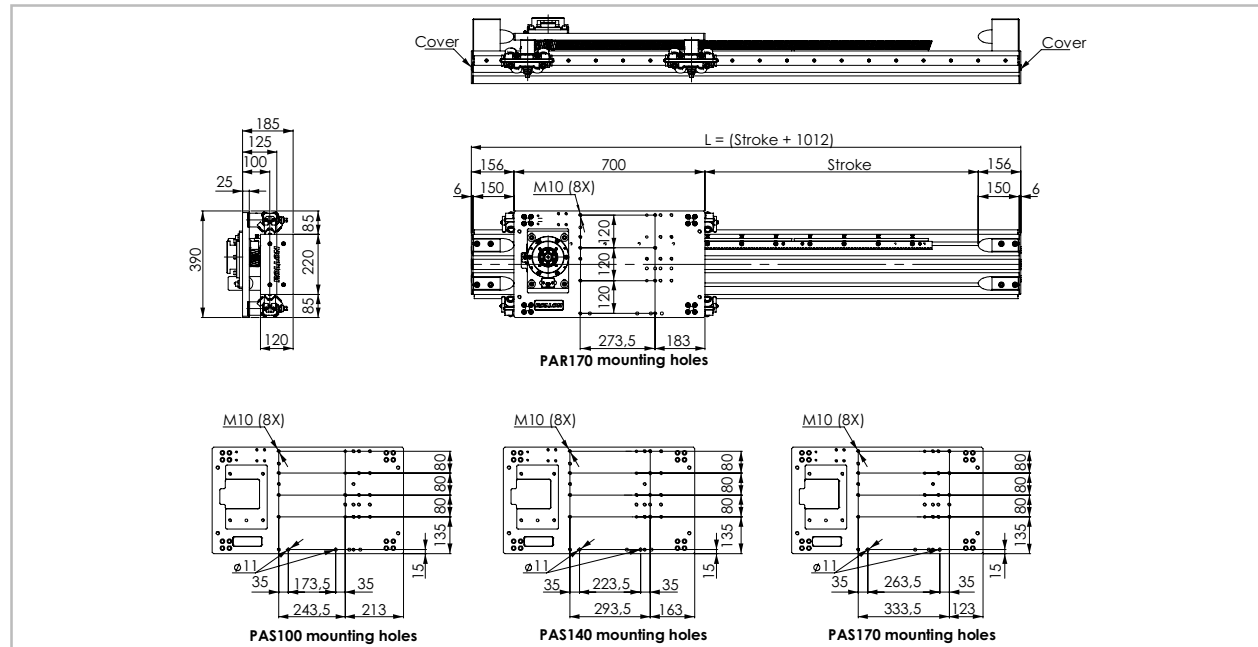


PAR 220H

Dimension



The length of the safety stroke is provided on request according to the customer's specific requirements.

**Cable carrier offered as option

Fig. 15

Technical data

	Type
	PAR 220H
Max. useful stroke length [mm]*1	11000
Max. positioning repeatability [mm]*2	± 0.1
Max. speed [m/s]	3
Max. acceleration [m/s ²]	6
Rack module	m 3
Pinion pitch diameter [mm]	63.66
Carriage displacement per pinion turn [mm]	200
Carriage weight [kg]	33.4
Zero travel weight [kg]	78.9
Weight for 100 mm useful stroke [kg]	4.17
Rail size [mm]	35x16

*1) It is possible to obtain longer stroke by means of special Rollon joints

*2) Positioning repeatability is dependent on the type of transmission used

Tab. 11

Rack specifications

Type of rack	Z [n°]	Rack module	Quality
Helical teeth hardened ground	18	m 3	Q6

Tab. 12

Typical payloads

Type	High Dynamics [kg]	Low Dynamics [kg]
PAR 170H	100	200

*The payload capacity is impacted by the center of mass and dynamics; the payload capacity is considered centered on the carriage (vertical actuator for 2-axis systems) to ensure a theoretical guides lifetime of L10=100000 km.

Tab. 13

Moments of inertia of the aluminum profile

Type	I_x [10 ⁷ mm ⁴]	I_y [10 ⁷ mm ⁴]	I_p [10 ⁷ mm ⁴]
PAR 220H	4.625	1.559	6.184

Tab. 14

Load capacity

Type	F_x [N]		F_y [N]		F_z [N]	M_x [Nm]	M_y [Nm]	M_z [Nm]
	Stat.	Dyn.	Stat.	Dyn.	Stat.	Stat.	Stat.	Stat.
PAR 220H-4S	5714	14142	65928	14142	1556	4243	4243	

See verification under static load and lifetime on page SL-2 and SL-3

Tab. 15

