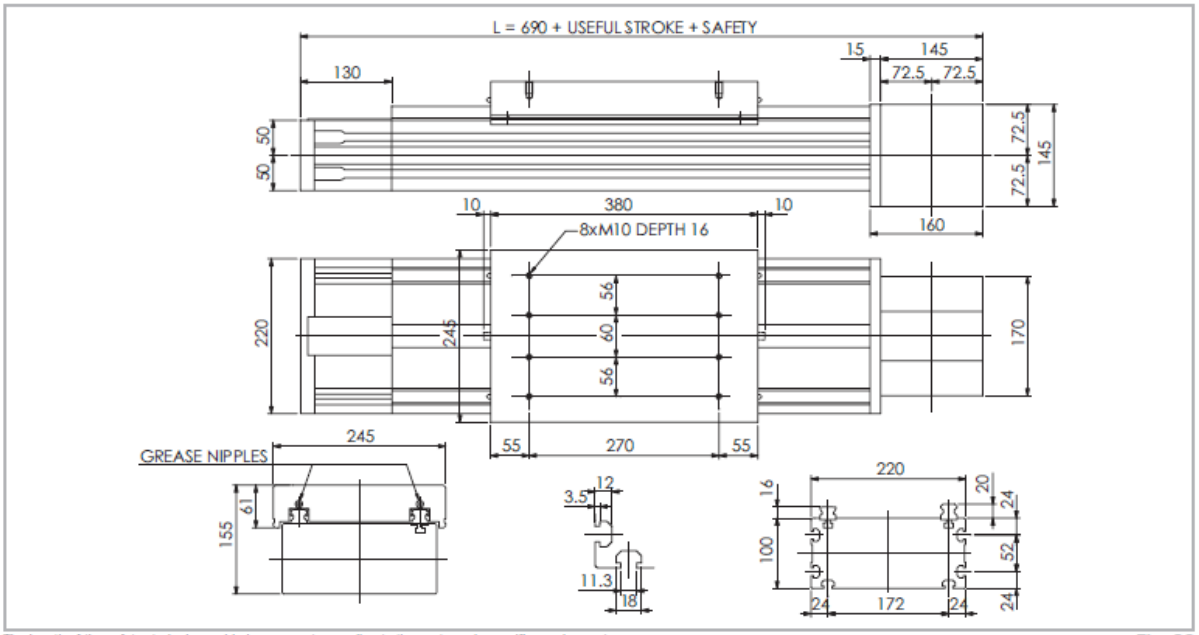
Rollon ROBOT 220 SP

ROBOT 220 SP dimensions



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

Fig. 36

Technical data

	Type
	ROBOT 220 SP
Max. useful stroke length [mm]*1	5900
Max. positioning repeatability [mm]*2	± 0.05
Max. speed [m/s]	5.0
Max. acceleration [m/s²]	50
Type of belt	100 AT 10
Type of pulley	Z 25
Pulley pitch diameter [mm]	79.58
Carriage displacement per pulley turn [mm]	250
Carriage weight [kg]	14.4
Zero travel weight [kg]	41
Weight for 100 mm useful stroke [kg]	2.5
Starting torque [Nm]	6.4
Moment of inertia of each pulley [g mm²]	4.114 · 10⁶
Rail size [mm]	25

*1) It is possible to obtain strokes up to 11000 mm by means of special Rollon joints
*2) Positioning repeatability is dependent on the type of transmission used

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Moments of inertia of the aluminum body

Type	I_x [10^7 mm⁴]	I_y [10^7 mm⁴]	I_p [10^7 mm⁴]
ROBOT 220	0.65	3.26	3.92

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Driving belt

The driving belt is manufactured from a friction resistant polyurethane and with steel cords for high tensile stress resistance.

Type	Type of belt	Belt width [mm]	Weight [kg/m]
ROBOT 220 SP	100 AT 10	100	0.58

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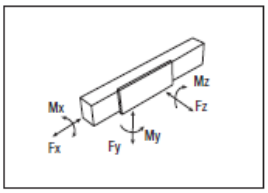
Belt length (mm) = 2 x L - 120



ROBOT 220 SP - 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.
ROBOT 220 SP	9545	6325	258800	116833	258800	22257	28986	28986

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

Tab. 89

Hinweise zur Rollon ROBOT Achse

Befestigung mit Spannpratzen

Aufgrund der verwendeten Führungssysteme, die Belastungen aus allen Richtungen erlauben, können Lineareinheiten der ROBOT Serie in jeglicher Position befestigt werden.

Bitte benutzen Sie dabei die folgenden Befestigungsmethoden.

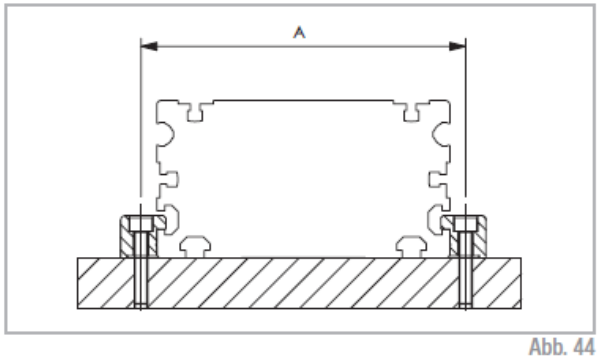


Abb. 44

Typ	A (mm)
ROBOT 100	112
ROBOT 130	144
ROBOT 160	180
ROBOT 220	240

Tab. 101