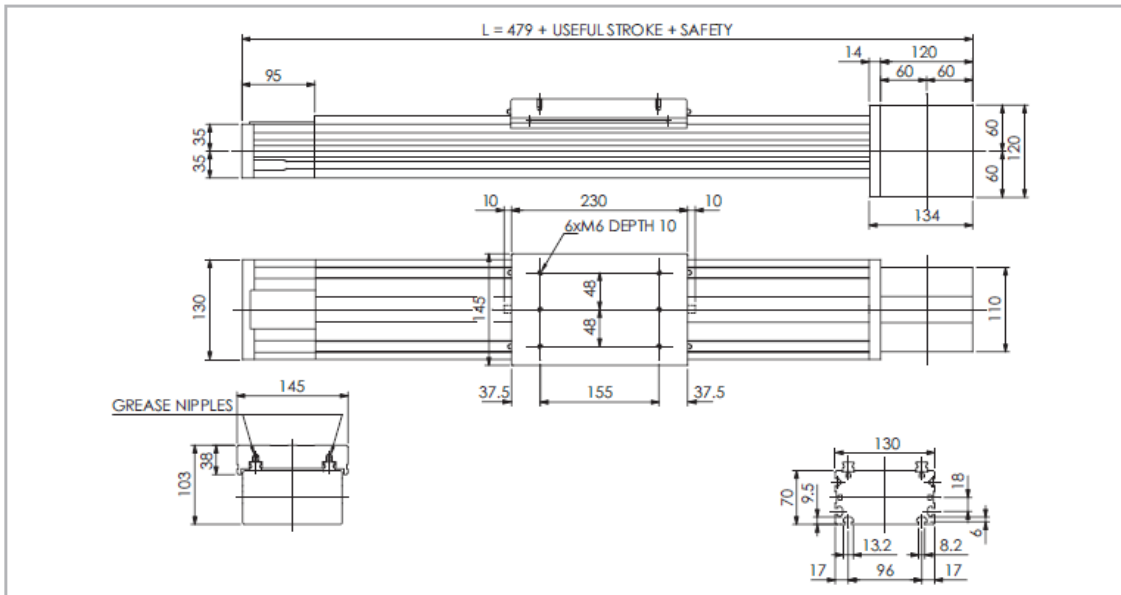


### Rollon ROBOT 130 SP

#### ROBOT 130 SP dimensions



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

Fig. 28

#### Technical data

	Type
	ROBOT 130 SP
Max. useful stroke length [mm]*1	6050
Max. positioning repeatability [mm]*2	± 0.05
Max. speed [m/s]	5.0
Max. acceleration [m/s <sup>2</sup> ]	50
Type of belt	50 AT 10
Type of pulley	Z 17
Pulley pitch diameter [mm]	54.11
Carriage displacement per pulley turn [mm]	170
Carriage weight [kg]	2.8
Zero travel weight [kg]	9.1
Weight for 100 mm useful stroke [kg]	1.2
Starting torque [Nm]	2.7
Moment of inertia of pulleys [g mm <sup>2</sup> ]	493200
Rail size [mm]	15

\*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

Tab. 54

#### ROBOT 130 SP - Load capacity

Type	F <sub>x</sub> [N]		F <sub>y</sub> [N]		F <sub>z</sub> [N]	M <sub>x</sub> [Nm]	M <sub>y</sub> [Nm]	M <sub>z</sub> [Nm]
	Stat.	Dyn.	Stat.	Dyn.	Stat.	Stat.	Stat.	Stat.
ROBOT 130 SP	3112	1725	96800	45082	96800	4646	6340	6340

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

Tab. 57

PLS-22

#### Moments of inertia of the aluminum body

Type	I <sub>x</sub> [10 <sup>7</sup> mm <sup>4</sup> ]	I <sub>y</sub> [10 <sup>7</sup> mm <sup>4</sup> ]	I <sub>p</sub> [10 <sup>7</sup> mm <sup>4</sup> ]
ROBOT 130	0.15	0.65	0.79

Tab. 55

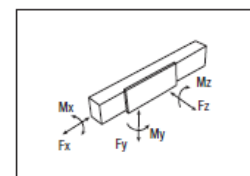
#### Driving belt

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 130 SP	50 AT 10	50	0.29

Tab. 56

$$\text{Belt length (mm)} = 2 \times L - 103$$



## 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.

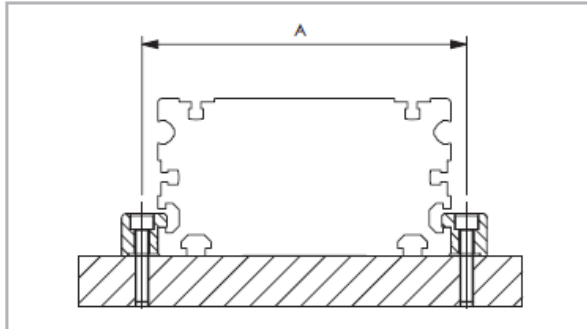


Abb. 44

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

Tab. 101