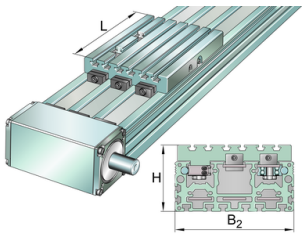
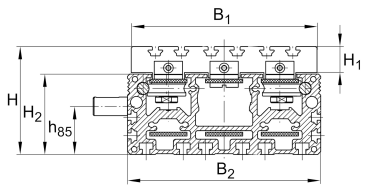


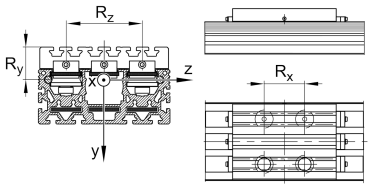
MLFI140-500-3ZR-W2-N-FA517.1

Módulo lineal

Actuators with internal track roller guidance system and toothed belt drive.With triple toothed belt, support rail in two segments, second, driven carriage and and fixing slots in carriage

Información técnica



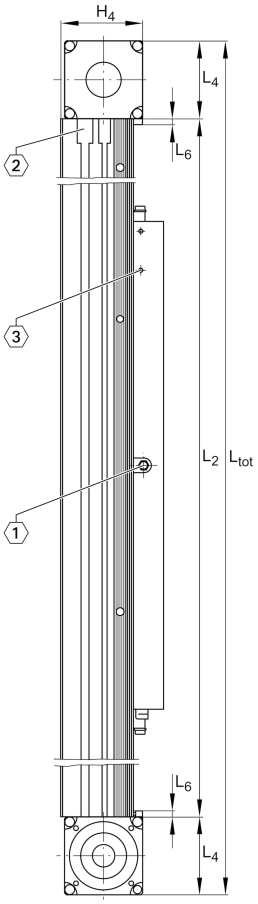


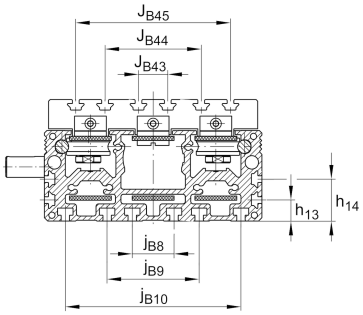
Variante de su producto actual

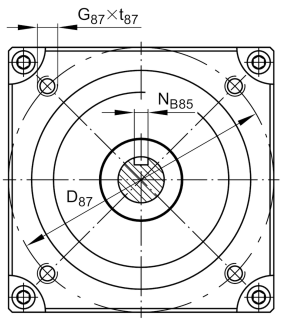
Size code	140	
Length of carriage	500	500 mm
Version	/	Standard
Ejecución	/	Basis
Drive type	(3)ZR	Toothed belt drive
Additional carriage	W2	Second, driven carriage
Attachment to the carriage	N	T-Slots
Support rail design	FA517.1	Two-Piece

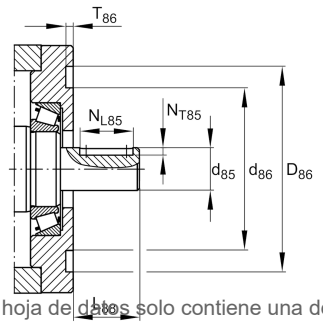
Medidas principales y datos de rendimiento

B_2	180 mm	Total Width
H	105 mm	Altura
L	500 mm	Longitud



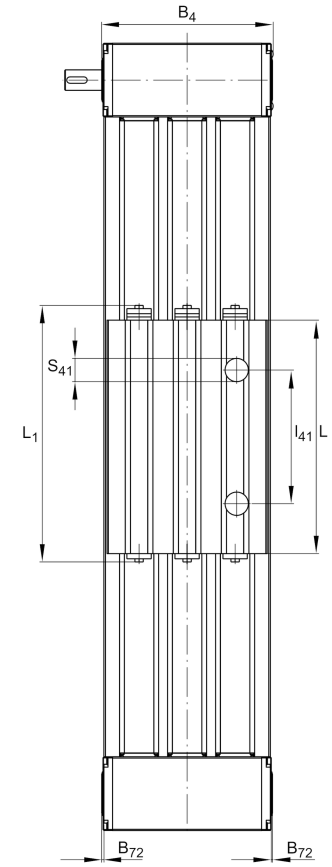


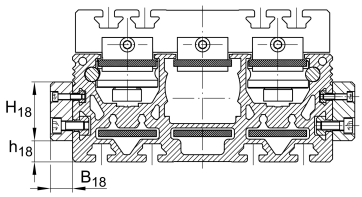




Medidas de montaje

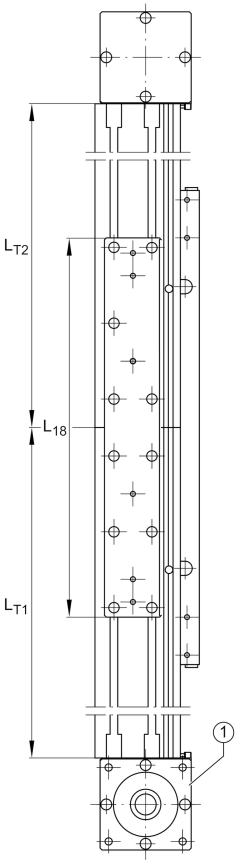
D 86	70 mm	
Tol D 86	G7	Tolerance
D 87	80 mm	Ø Bolt circle
d 85	25 mm	
Tol d 85	h7	Tolerance
L 88	45 mm	
d 86	61 mm	Ø Inner Fit
G 87	M6	Thread
h 85	44 mm	
J B43	80 mm	
J B44	130 mm	
J B8	70 mm	
j B9	140 mm	
l 41	354 mm	
N B85	8 mm	Width of Keyway
Tol N B85	P9	Tolerance
N L85	25 mm	Length of Keyway
N T85	4 mm	Depth of Keyway, Tolerance P9
T 86	2,3 mm	Depth Fit
Tol T 86 up	0,3 mm	Upper Tolerance
Tol T 86 low	0 mm	Lower Tolerance
t 87 max	12 mm	

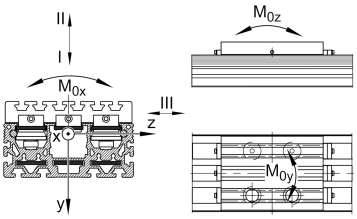




Medidas

B_1	176 mm	Width of Carriage
B_4	195 mm	Width of Return Unit
B_{18}	15 mm	
B_{72}	2 mm	
H_1	29,3 mm	Height of Carriage
H_2	74,5 mm	Altura
H_4	84 mm	Height of Return Unit
H_{18}	50 mm	
h_{13}	25 mm	
h_{14}	45 mm	
h_{18}	2 mm	
L_1	542 mm	Longitud
$L_{2\ max}$	16.000 mm	Maximum length of Support Rail
L_4	80 mm	
L_6	6 mm	Length of Wiper Brushes
L_{18}	400 mm	
$L_{x1\ min}$	100 mm	Minimum distance between the Carriages
$L_{Tn\ min}$	500 mm	Support Rail in Segments length min
$L_{Tn\ max}$	8.000 mm	Support Rail in Segments length max
S_{41}	30 mm	
S	85 mm	Medida





Datos técnicos

m_{LAW}	8,87 kg	Mass of Carriage
m_1	1,84 kg	Mass of Connecting Plates of Profiles
m_3	8,87 kg	Mass of additional Carriage
v_{max}	8 m/s	Maximum Speed
a_{max}	40 m/s2	Maximum Acceleration
R_x	354 mm	
R_y	44,5 mm	
R_z	104,5 mm	
I C	17.500 N	Load direction I: compressive load
$I C_0$	8.000 N	Load direction I: compressive load
II C	17.500 N	Load direction II: tensile load
$II C_0$	8.000 N	Load direction II: tensile load
III C	27.600 N	Load direction III: lateral load
$III C_0$	14.800 N	Load direction III: lateral load
$M_{0x\ per}$	610 Nm	Max. permissible static moment per Carriage
$M_{0y\ per}$	2.630 Nm	Max. permissible static moment per Carriage
$M_{0z\ per}$	1.450 Nm	Max. permissible static moment per Carriage
I_y	1.636 cm4	Geometrical moments of inertia of Support Rail
I_z	200 cm4	Geometrical moments of inertia of Support Rail

Información adicional

	115 Nm	Max. permissible drive torque
	4 x LFR5301-10-2Z	Track Rollers
	0,1 mm	Repeat Accurancy ±
	160 mm	Feed (mm/rotation)
	40AT10	Toothed Belt
	0,75 kg/m	Mass of Toothed Belt
	4.500 N	Permissible Toothed Belt operating force
	8,2 kg*cm2	Mass moment of inertia of Gears and Gearboxes

Rango de temperatura

T_{min}	0 °C	Minimum operating Temperatur
T_{max}	80 °C	Maximum operating Temperatur