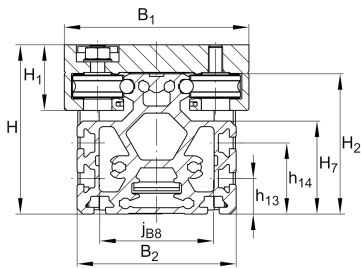


### MLF52-260-EE-ZR-FBALG [↗](#)

Linear actuator

Actuators with external track roller guidance system and toothed belt drive. With bellows

## Technical information



### Your current product variant

Size code	52	
Length of carriage	260	260 mm
Carriage design	EE	Double strengthened carriage
Drive type	(3)ZR	Toothed belt drive
Additional carriage	/	No additional carriage
Support rail design	/	One-piece
Bellow	FBALG	Yes

### Main Dimensions & Performance Data

B <sub>1</sub>	155 mm	Total Width
H	125 mm	Height
L	260 mm	Length



**Mounting dimensions**

D 86	95 mm	
D 87	115 mm	Ø Bolt circle
d 85	20 mm	
d 86	76 mm	Ø Inner Fit
L 88	31 mm	
G 43	M12	Thread
G 87	M8	Thread
h 85	60,6 mm	
J B43	115 mm	
J L43	180 mm	Tolerance ±0,2
j B8	80 mm	
N B85	6 mm	Width of Keyway
N L85	25 mm	Length of Keyway
N T85	3,5 mm	Depth of Keyway
T 86	4 mm	Depth Fit
Tol T 86 up	0,5 mm	Upper tolerance
Tol T 86 low	0 mm	Lower tolerance
t 43 max	24 mm	Depth of Thread
t 87 max	15 mm	





### Dimensions

B <sub>2</sub>	112 mm	Width of Support Rail
B <sub>4</sub>	111 mm	Width of Return Unit
B <sub>72</sub>	2 mm	
H <sub>1</sub>	55 mm	
H <sub>2</sub>	98,6 mm	Height
H <sub>4</sub>	118,3 mm	Height of Return Unit
H <sub>7</sub>	65,4 mm	
h <sub>13</sub>	25 mm	
h <sub>14</sub>	50 mm	
L <sub>2 max</sub>	8.000 mm	Maximum length of Support Rail
L <sub>4</sub>	115,5 mm	
F <sub>BL</sub>	1,37	Effective length factor of bellow
S	85 mm	Dimension





### Technical data

$m_{LAW}$	4,12 kg	Mass of Carriage
$v_{max}$	8 m/s	Maximum Speed
$a_{max}$	40 m/s <sup>2</sup>	Maximum Acceleration
$R_x$	120 mm	
$R_y$	35,3 mm	
$R_z$	95 mm	
I C	20.000 N	Load direction I: compressive load
I C <sub>0</sub>	10.000 N	Load direction I: compressive load
II C	20.000 N	Load direction II: tensile load
II C <sub>0</sub>	10.000 N	Load direction II: tensile load
III C	32.400 N	Load direction III: lateral load
III C <sub>0</sub>	18.200 N	Load direction III: lateral load
M <sub>0x per</sub>	215 Nm	Max. permissible static moment per Carriage
M <sub>0y per</sub>	1.100 Nm	Max. permissible static moment per Carriage
M <sub>0z per</sub>	620 Nm	Max. permissible static moment per Carriage
I <sub>y</sub>	386 cm <sup>4</sup>	Geometrical moments of inertia of Support Rail
I <sub>z</sub>	301 cm <sup>4</sup>	Geometrical moments of inertia of Support Rail

### Additional information

73,5 Nm	Max. permissible drive torque
4 x LFR5302-10-2Z	Track Rollers
0,1 mm	Repeat Accuracy ±
270 mm	Feed (mm/rotation)
32AT10	Toothed Belt
0,2 kg/m	Mass of Toothed Belt
1.750 N	Permissible Toothed Belt operating force
12,6 kg*cm <sup>2</sup>	Mass moment of inertia of Gears



### Temperature range

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T <sub>min</sub>	0 °C	Minimum operating Temperatur
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T <sub>max</sub>	80 °C	Maximum operating Temperatur
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