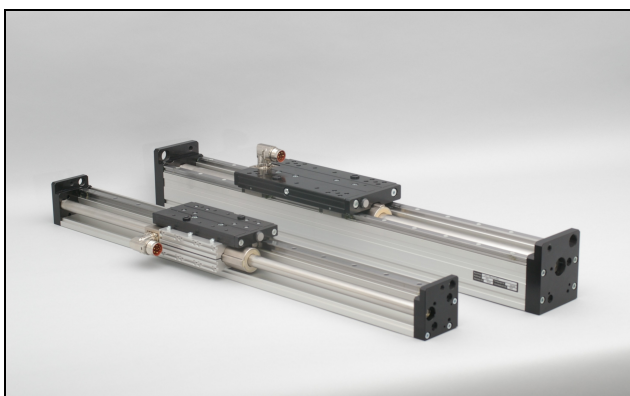


HighDynamic[®] Precision Linear Guides LA00 & LA01 with Linear Servo Drives

The HighDynamic[®] precision linear guides LA00 and LA01 are based on very stiff aluminium profiles. The slider runs with ball carriages on profile rails, which are screwed to the aluminium profiles. **LinMot[®]** linear servo drives of the series P01-37x120 and P01-48x120 serve as drives. The magnetic slider is incorporated into the guide body and mounted with a fixed and floating bearings. The stator is mounted into the slider. The system ensures high torsional stiffness, despite the low moving masses. Ball chains in ball cages, which serve as carrying elements, are responsible for high maximum speed, high accelerations, a low noise level, as well as a long operational life.

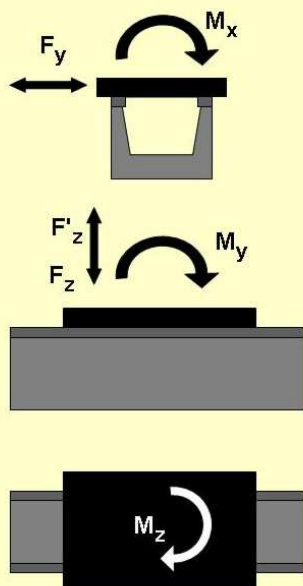


Characteristics

- modular designed linear guide system with **LinMot[®]** linear servo drives
- aluminium profile with sanded profile rails & ball carriages as guide element
- precision-milled aluminium profile
- high speed up to 5 m/s
- positioning accuracy +/- 0,05 mm (+/- 0,001 mm optionally)
- many accessories and options
- various drive options available

Technical Data **HighDynamic[®]** Precision Linear Guides LA00 & LA01

Guide Type	LA00	LA01
Technical Data		
F _z [N]	3.000	5.000
F _y [N] & F _{z'} [N]	3.000	4.200
M _x [Nm]	80	250
M _y [Nm] & M _z [Nm]	300	500
moving mass without motor [kg]	1,4	2,5
dry friction without motor [N]	ca. 10	ca. 15
v _{max} [m/s] ¹⁾	5	5
a _{max} [m/s ²] ¹⁾	100	100
suitable LinMot[®] motor	P01-37x120	P01-48x240
The drive force depends on the used linear motor and controller!		
¹⁾ The indicated values are referring to the mechanical operating limits of the guiding systems.		

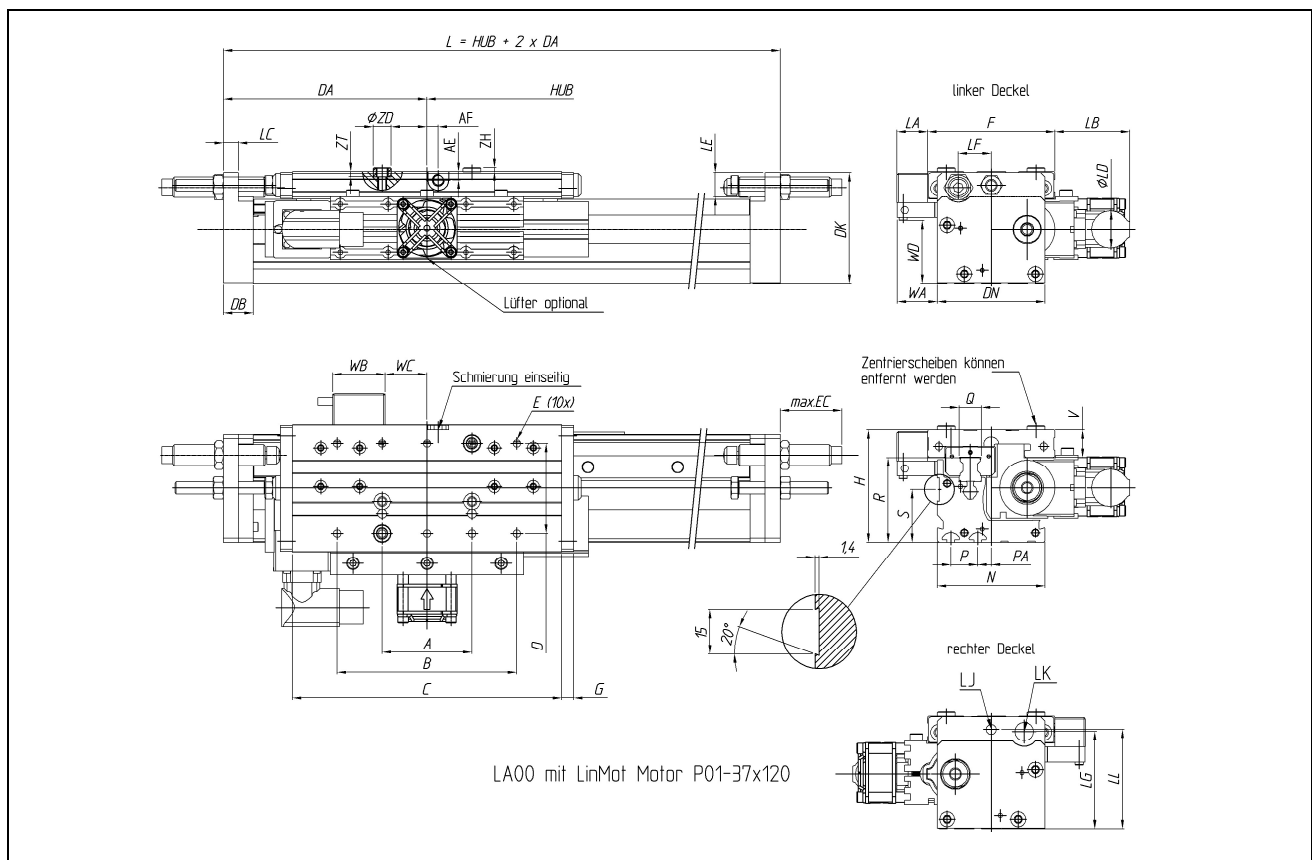


Available Variations **HighDynamic®** Linear Guide LA00

LA00 guides	stroke [mm]	suitable LinMot® motor	slider length [mm]	L [mm]	C [mm]	DA [mm]	weight without motor [kg]
LA00-37x120/250	250	P01-37x120/280x360	500	522	180	136	3,58
LA00-37x120/350	350	P01-37x120/380x460	600	622	180	136	4,13
LA00-37x120/450	450	P01-37x120/480x560	700	722	180	136	4,68
LA00-37x120/550	550	P01-37x120/580x660	800	822	180	136	5,23
LA00-37x120/650	650	P01-37x120/680x760	900	922	180	136	5,78
LA00-37x120/750	750	P01-37x120/780x860	1.000	1.022	180	136	6,33
LA00-37x120/950	950	P01-37x120/980x1060	1.200	1.222	180	136	7,43
LA00-37x120/1150	1.150	P01-37x120/1180x1260	1.400	1.422	180	136	8,53
LA00-37x120/1350	1.350	P01-37x120/1380x1460	1.600	1.622	180	136	9,63

The following *LinMot®* motors can be installed in LA00 linear guides:

- standard motors of P01-37x120 series
- motors with high clearance slider (blue area) option: -U
- motors in HP versions (High Performance)
- motors combined from HP stator and high clearance slider

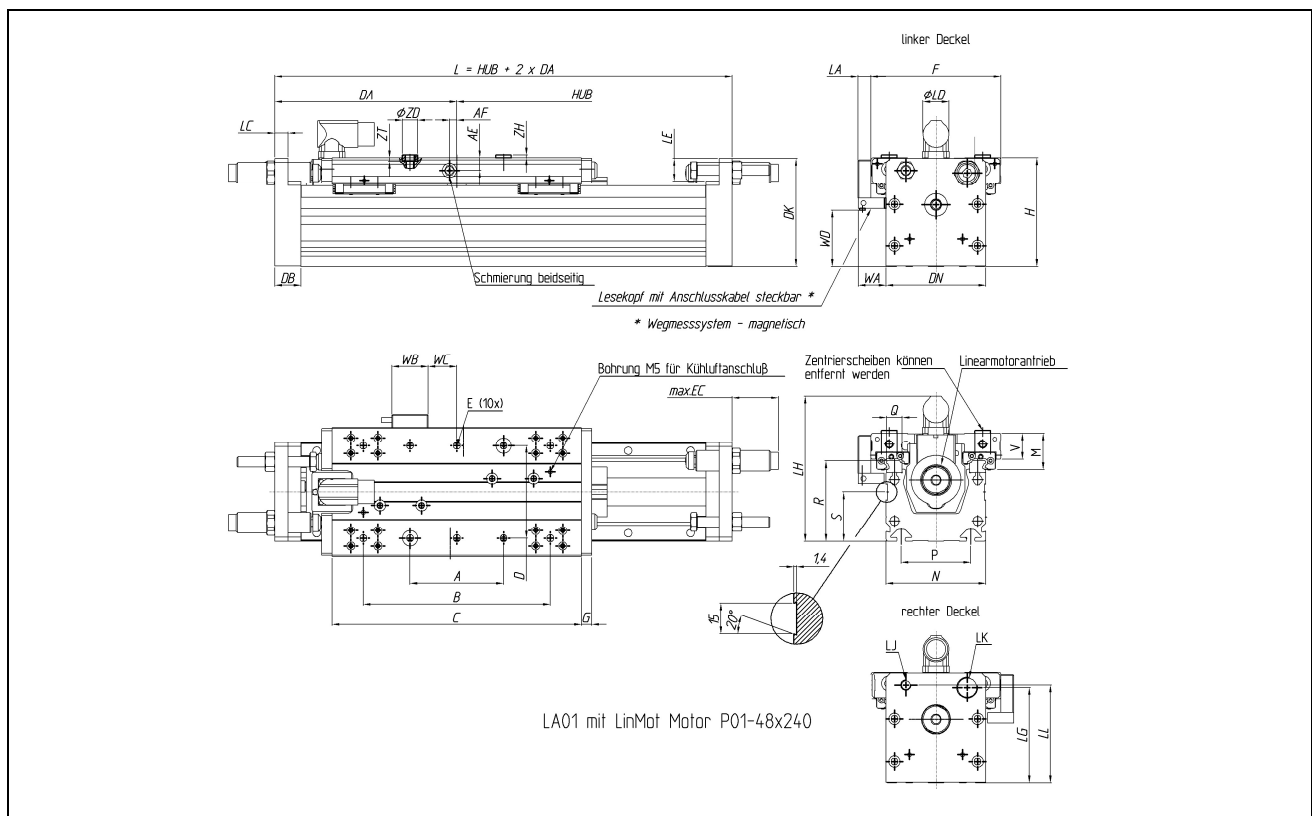


Available Variations **HighDynamic®** Linear Guide LA01

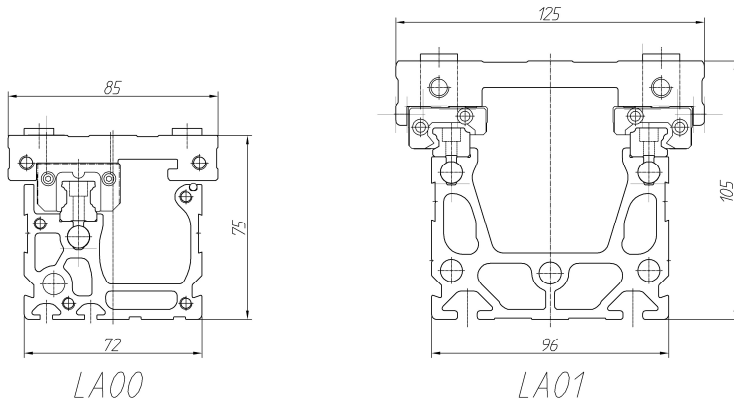
LA01 guides	stroke [mm]	suitable LinMot® motor	slider length [mm]	L [mm]	C [mm]	DA [mm]	weight without motor [kg]
LA01-48x240/180	180	P01-48x240/180x330	500	530	240	175	5,88
LA01-48x240/300	300	P01-48x240/300x450	620	650	240	175	6,94
LA01-48x240/390	390	P01-48x240/390x540	710	740	240	175	7,73
LA01-48x240/480	480	P01-48x240/480x630	800	830	240	175	8,52
LA01-48x240/600	600	P01-48x240/600x750	920	950	240	175	9,58
LA01-48x240/690	690	P01-48x240/690x840	1.010	1.040	240	175	10,37
LA01-48x240/900	900	P01-48x240/900x1050	1.220	1.250	240	175	12,22
LA01-48x240/1080	1.080	P01-48x240/1080x1230	1.400	1.430	240	175	13,80
LA01-48x240/1290	1.290	P01-48x240/1290x1440	1.610	1.640	240	175	15,65
LA01-48x240/1500	1.500	P01-48x240/1500x1650	1.820	1.850	240	175	17,50
LA01-48x240/1680	1.680	P01-48x240/1680x1830	2.000	2.030	240	175	19,08

The following *LinMot®* motors can be installed in LA01 linear guides:

- standard motors of P01-48x240 series
- motors with F stator
- motors with high clearance slider (blue area) option: -U



Dimensions of **HighDynamic**® Linear Guides



LA00 & LA01 Standard Equipment

- central grease nipple M8x1
- air inlet for stator cooling (only LA01)

LA00 & LA01 Accessories

- mounting block BK00-KM6 for LA00
- mounting block BK01-KM8 for LA01
- slot nut NS00-M5 for LA00
- slot nut NS01-M8 for LA01

LA00 & LA01 Options

- fan for forced cooling
- external positioning sensor
- cable chain
- ready-to-use multi-axes portals

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