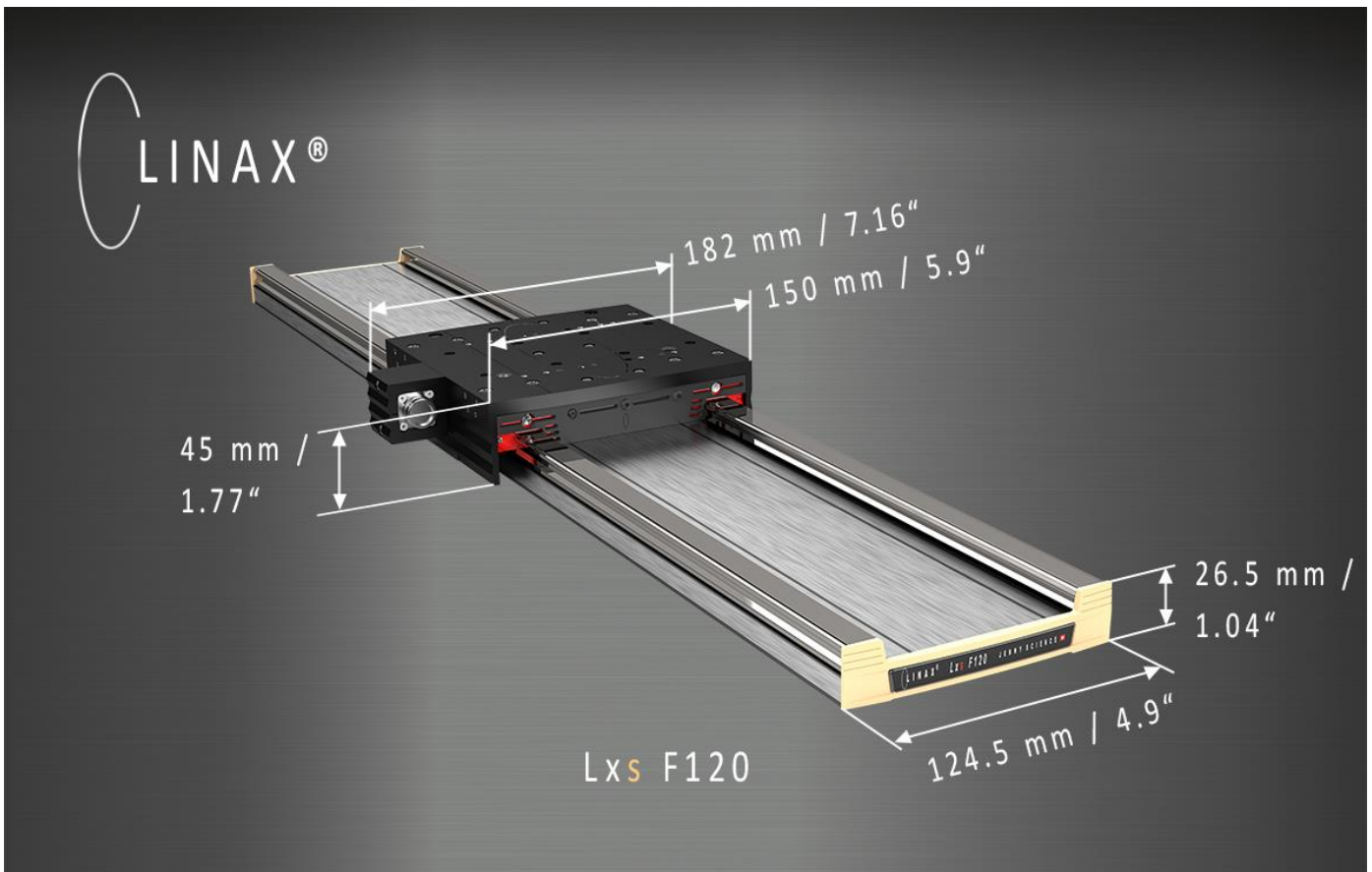


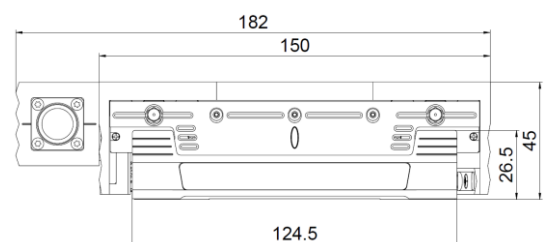
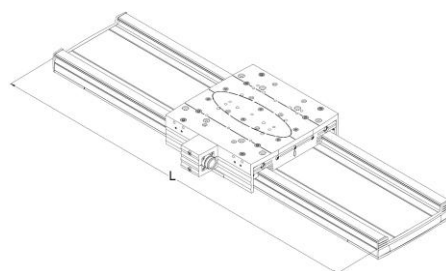
3.4 LINAX® Lxs F120 (shuttle)



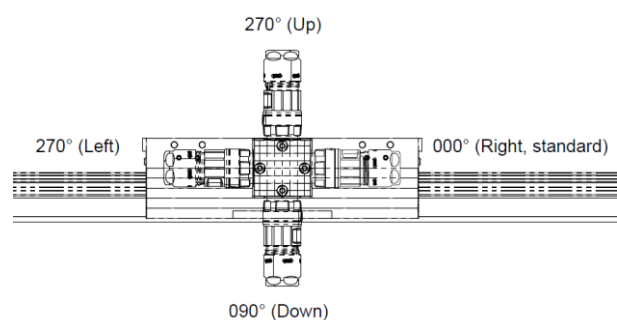
The Lxs F120 linear motor stages are designed for long strokes up to 1'600 mm as basic stage. The wide design with "recessed" linear motor is very advantageous, reducing the height to only 45mm. The wide spaced guides can absorb high force moments of the transverse cantilever stages.

All the LINAX® Lxs linear motor stage can be controlled with the latest, more powerful XENAX® Xvi 75V8S servo controller.

LINAX® Lxs	L [mm]
Lxs 400F120	563 (22.17")
Lxs 520F120	683 (26.89")
Lxs 600F120	763 (30.04")
Lxs 800F120	963 (37.91")
Lxs 1000F120	1163 (45.79")
Lxs 1200F120	1363 (53.66")
Lxs 1600F120	1763 (69.41")



Rotatable connector housing in 90° grid.
Standard cable outlet to the right
when viewed from the connector housing.



Type	Stroke [mm]	Force Fn/Fp [N]	Weight carriage slider/total [kg]	Art. No. Magn. measuring scale 1µm +/- 4µm	Art. No. optical measuring scale 1µm +/- 2µm	Art. No. optical measuring scale 100nm +/- 500nm
Lxs 400F120	400 (15.75")	120/300 (27.0/67.4 lbf)	2.3/7.80 (5.07/17.20 lbs)	115.35.18	115.36.18	115.45.18
Lxs 520F120	520 (20.47")	120/300 (27.0/67.4 lbf)	2.3/8.05 (5.07/17.75 lbs)	115.35.24	115.36.24	115.45.24
Lxs 600F120	600 (23.62")	120/300 (27.0/67.4 lbf)	2.3/9.80 (5.07/21.61 lbs)	115.35.28	115.36.28	115.45.28
Lxs 800F120	800 (31.50")	120/300 (27.0/67.4 lbf)	2.3/11.90 (5.07/26.24 lbs)	115.35.38	115.36.38	115.45.38
Lxs 1000F120	1000 (39.37")	120/300 (27.0/67.4 lbf)	2.3/13.95 (5.07/30.76 lbs)	115.35.48	115.36.48	115.45.48
Lxs 1200F120	1200 (47.24")	120/300 (27.0/67.4 lbf)	2.3/16.00 (5.07/35.28 lbs)	115.35.58	115.36.58	115.45.58
Lxs 1600F120	1600 (62.99")	120/300 (27.0/67.4 lbf)	2.3/20.10 (5.07/44.32 lbs)	115.35.78	115.36.78	115.45.78

Note: LINAX® Lxs option cleanroom, food industry and pharmaceutical industry

The LINAX® Lxs can be mounted in clean room standard with additional charge of 10%. The ball bearing carriages are filled with a special lubrication. If you wish to use this option, please add the note „**OPTION CLEANROOM/FOODINDUSTRIE/AND PHARMACEUTICAL INDUSTRY**“ (depending on your requirement) on your purchase order.

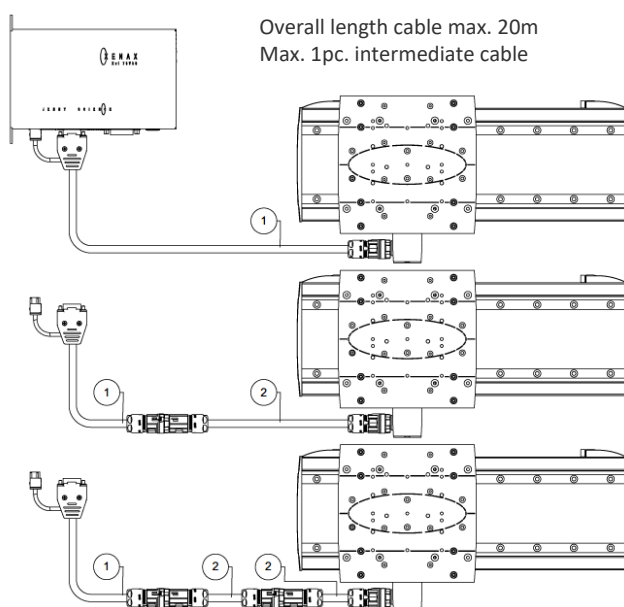


3.4.1 Connecting Cable LINAX® Lxs F120

Absolutely revolutionary is the flexible one-cable connection, which reduces the machine cabling effort considerably. In only one cable are the lines for encoder, for the 3 phases of the linear motor and for the communication between LINAX® Lxs F120 and XENAX® Servocontroller.

These connection cables have a minimum bending radius of **48mm for continuous movement** and **of 20mm for fixed cables**. Extension cables are also available as accessories.

The connector housing can also be rotated in 90° grid.



Connecting Cable shielded, suitable for cable chains	Length [m]	15 Pol D-Sub Connector and 3 Pol Wago 3,5mm - M16 Stecker Art. No. 1
LINAX® Lxs F120 anthracite, TPU, Clean Room 5-6 Operating temp. -40° up to + 80°, Ø 9.6mm (0.38")	1.5 (59") 3.0 (118") 5.0 (197") 0.1-20 (4" - 787")	150.83.01 150.83.03 150.83.05 150.83.10

Connecting Cable prepared for extension or intermediary cable shielded, suitable for cable chain	Length [m]	M16 Socket – M16 Plug Art. No. 2
LINAX® Lxs F120 anthracite, TPU, Clean Room 5-6 Operating temp. -40° up to + 80°, Ø 9.6mm (0.38")	1.5 (59") 3.0 (118") 5.0 (197") 0.1-20 (4" - 787")	150.84.01 150.84.03 150.84.05 150.84.10

3.4.2 Fixings screws for ground plate LINAX® Lxs F120

Linear Motor Type	Screws	Art. No.
Fixing screws Lxs F120	10 x hexagon socket screws M4 x 20mm (0.79") stainless	135.11.07

Lxs 400F120 = 3 Sets
Lxs 520F120 = 4 Sets
Lxs 600F120 = 4 Sets
Lxs 800F120 = 5 Sets

Lxs 1000F120 = 6 Sets
Lxs 1200F120 = 7 Sets
Lxs 1600F120 = 9 Sets



3.4.3 Cross table fixing screws LINAX® Lxs F120

Linear Motor Type	Screws and centering pins	Art. No.
Cross table set Lxs F120	6 x hexagon socket screws M4 x 20mm (0.79"), 4 x centering pins Ø4mm (0.16") x 8mm (0.31") stainless	135.11.25



The various LINAX® linear motor types can be directly mounted to each other without the need of adapter plates. For cross table combinations there are multiple grid patterns possible.

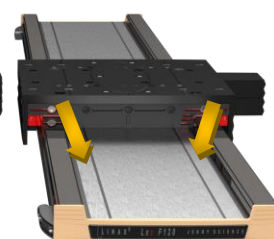
For the choice of the according screws, the upper mounted linear motor is relevant.

3.4.4 Cover tape for screws of ground plate LINAX® Lxs F120

Linear Motor Type	Cover tape set	Art. No.
Lxs 400F120 Lxs 520F120 Lxs 600F120 Lxs 800F120 Lxs 1000F120 Lxs 1200F120 Lxs 1600F120	The cover tape set includes 2 tapes to cover both sides.	135.08.10 135.08.12 135.08.14 135.08.16 135.08.18 135.08.20 135.08.22



Without Cover tape



With Cover tape

3.4.5 Additional carriage slider LINAX® Lxs F120

With the LINAX® Lxs linear motor axes it is possible to assemble two or more carriage sliders on the same ground plate. The cable connector can be orientated on the left or right side of the slider. Each carriage slider requires a XENAX® servo controller.



Additional carriage slider LINAX® Lxs F120	Type of carriage slider	Art. No.
Lxs xxxF120 mag. 1 µm	Carriage slider to LINAX® Lxs "shuttle" F120 with precise, self-lubricating ball bearing carriages, integrated absolute magnetic measuring system resolution 1 µm, accuracy +/-4µm	135.30.30
Lxs xxxF120 opt. 1 µm	Carriage slider to LINAX® Lxs "shuttle" F120 with precise, self-lubricating ball bearing carriages, integrated absolute optical measuring system resolution 1 µm, accuracy +/-2µm	135.30.32
Lxs xxxF120 opt. 100 nm	Carriage slider to LINAX® Lxs "shuttle" F120 with precise, self-lubricating ball bearing carriages, integrated absolute optical measuring system resolution 100 nm, accuracy +/-500nm	135.30.34
Lxs xxxF120 passiv	Passive carriage slider with precise, self-lubricating ball bearing carriages. WITHOUT MOTOR & WITHOUT MEASURING SYSTEM Does not require servo controller	135.30.36