

2.9 Cross Tables

The linear motor stages of the LMX1 series can be combined to form cross tables.

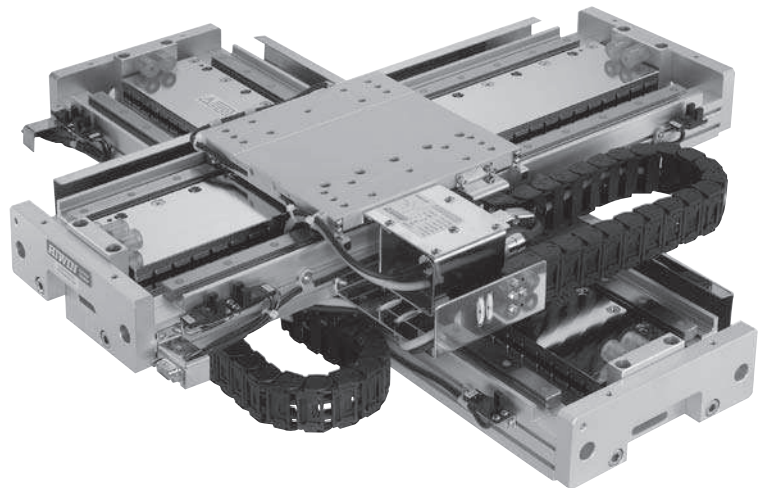
The structure of the order number shows that almost every combination of LMX1 linear motor stages is possible.

A cross table with LMX1E-C linear motor stages is shown in 2.9.1.

2.9.2 shows a cross table with LMX1L-S linear motor stages.

2.9.1 Cross Table LMX2E-CB5-CB8

- Equipped with coreless linear motors
- Slight inertia and fast acceleration
- No cogging
- Especially rigid aluminum frame with low profile
- Simple assembly



Specifications for Cross Table LMX2E-CB5-CB8

Type (Order code) xxxx=Stroke [mm]	Ortho- gonality [arc-sec]	Repeat- ability [mm]	v_{max} [m/s]	a_{max} [m/s ²]	Motor Type	F_c [N]	F_p [N]	Mass of Slider [kg]
LMX2E-CB5 CB8-xxxx-xxxx-G20	+/- 10	+/- 0.002	3	50	Upper axis: LMC B5 Lower axis: LMC B8	90 145	270 435	2.5 Mass of upper axis + 4

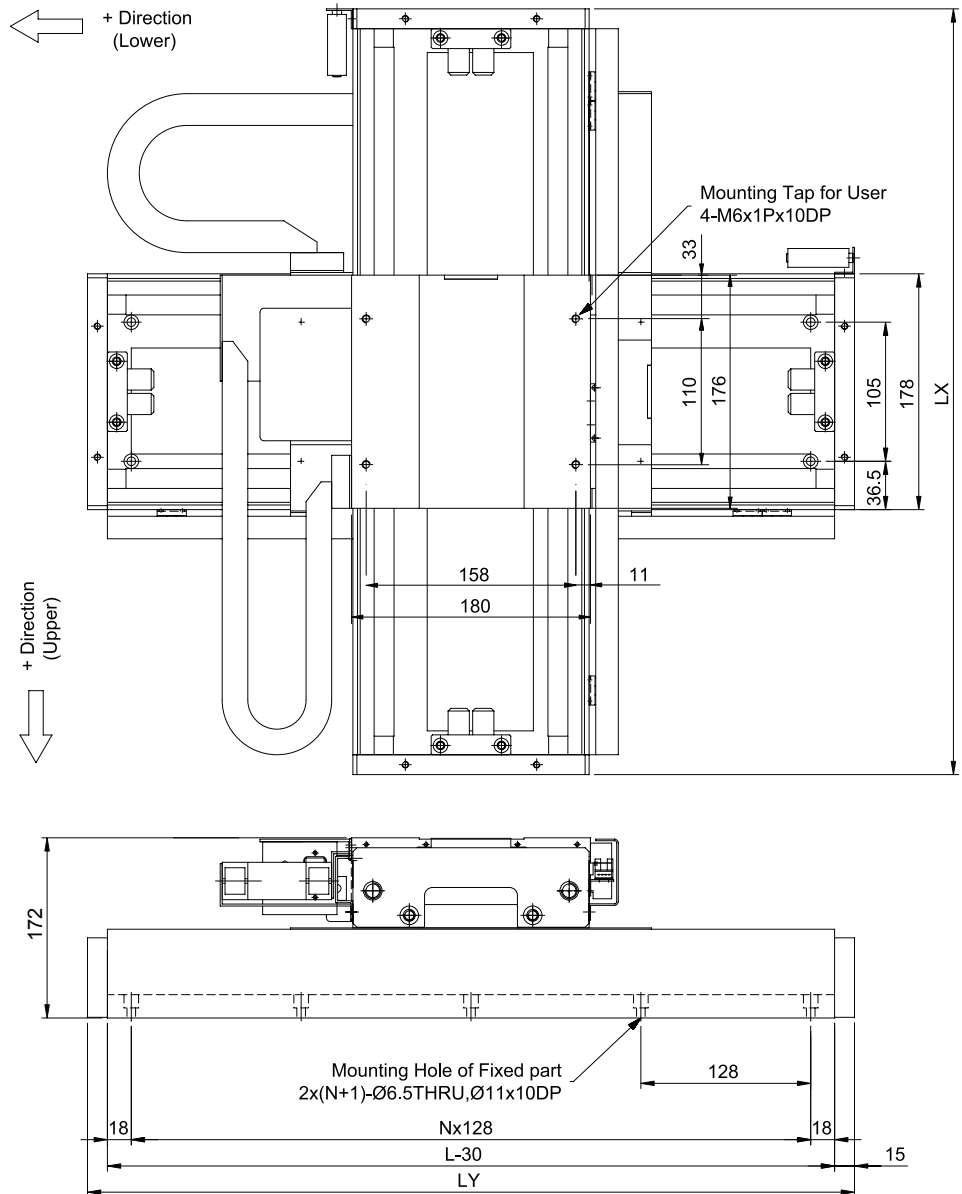
Note: F_c = continuous force, 100% operating time
 F_p = peak force (1 s)
 Electric parameters for the linear motors: see page 46

Positioning Systems

Linear Motor Stages

Dimensions of Cross Table LMX2E-CB5-CB8

Dimensions Units: mm



Dimensions and weight of cross table LMX2E-CB5-CB8 with three examples of strokes

Type (Order code)	Stroke (upper/lower) [mm]	Total length (LX x LY) [mm]	N	Mass (upper axis) [kg]	Mass (XY axis) [kg]
LMX2E-CB5-CB8-144-179-G20	144 x 179	450 x 578	4	19	42
LMX2E-CB5-CB8-272-304-G20	272 x 304	578 x 706	5	22.5	49.5
LMX2E-CB5-CB8-400-432-G20	400 x 432	706 x 834	6	26	57