

Linear unit is equipped with spindle drive ile 20/20

- Aluminum shaft mounting profile, anodized
- Milled clamping surface
- 20 precision steel rails equipped with steel slides
- Profile sealing is equipped with abrasion-resistant sealing lips
- 2 limit and reference switches
- Repeatability +/- 0.02 mm

Options

- Stepping or servo motor



The LES 5 undergoes the complete development! Two drives - one axis

With the linear unit, there is the possibility of incorporating two independent linear movements in simply one unit by installing two ball screw spindles. Therefore, 2 linear movements' realization is made possible with the smallest dimensions.

The linear units can be purchased with either one or two integrated ball screw drives (Ø 20 mm), pitches of either 5/10/20/40 mm, and with 2, 4 or 6 aluminum clamping plates.

Technical data

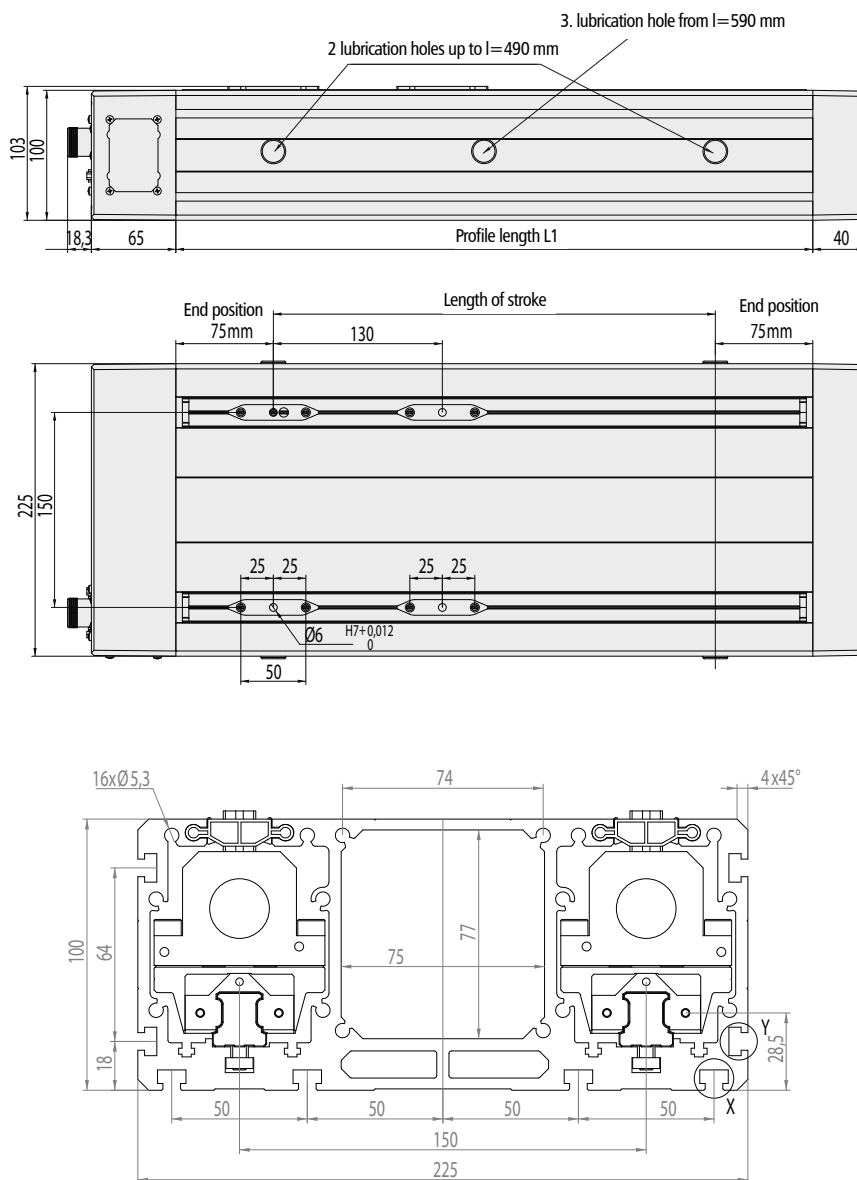
Moment of inertia Ix	705 cm ⁴
Moment of inertia Iy	2,807 cm ⁴
Centre of the area	39.5 mm
Cross-sectional area	54.22 cm ²
Material	EN AW-6060 T66
Anodizing	E6/EV1
Weight equipped with steel rail guide	20.6 kg/m
Weight equipped with both steel rail guide and ball screw spindle	22.8 kg/m

Order key

238	XXX	XXXX	Profile lengths e.g. 0029 = 290 mm (min.) 0389 = 3,890 mm (max.)
Drive	Steel slide	Ball screw drive	
2 = integrated belt drive module	1 = 2 slides	0 = without	
3 = preparation direct drive module	2 = 4 slides	3 = gradient 5 mm	
	3 = 6 slides	4 = gradient 10 mm	
	4 = 8 slides	5 = gradient 20 mm	
		6 = gradient 40 mm	

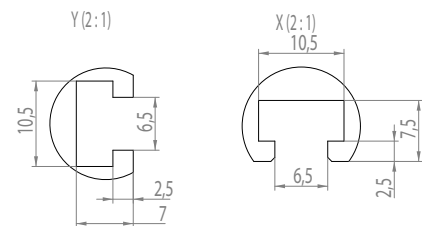
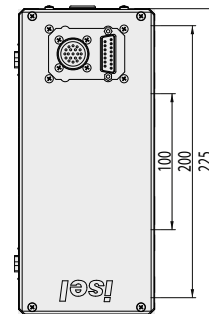
Version equipped with two spindles on demand.

Dimensional drawing



Length of stroke

with 2 x steel slides	L1-150 mm
with 4 x steel slides	L1-280 mm



Permissible spindle speeds

ball screw spindle Ø20mm, equipped with fixed-loose bearing

Profile length [mm]	Spindle gradient p [mm]	5	10	20
	max. permissible Spindle speed n permissible [1/min]	maximum permissible Feed speed v permissible [mm/s]		
490	6,000	500	1,000	2000
990	4,000	333	667	1,333
1,390	2,000	167	333	667
1,490*	4,000	333	667	1,333
1,990*	2000	167	333	667
2,490*	1500	125	250	500
2,990*	1,000	83	167	333
3,490*	700	58	117	233

*equipped with spindle support

Load figures

	Number of slides	
	2	4
C ₀	40,020 N	60,000 N
C	22,811 N	34,200 N
F1 _{stat}	40,020 N	60,000 N
F1 _{dyn}	22,811 N	34,200 N
F2 _{stat}	40,020 N	60,000 N
F2 _{dyn}	22,811 N	34,200 N
M0x	3,002 Nm	4,500 Nm
M0y	800 Nm	3,900 Nm
M0z	800 Nm	3,900 Nm
M _x	1,711 Nm	3,422 Nm
M _y	456 Nm	2,223 Nm
M _z	456 Nm	2,223 Nm

