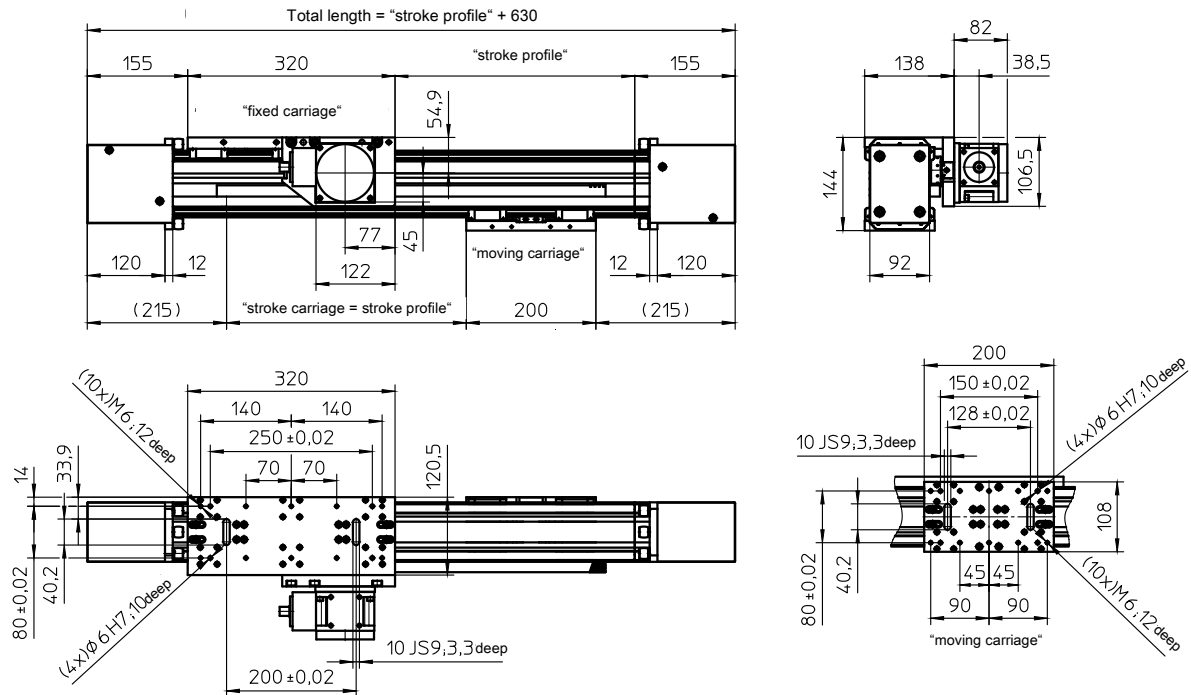


with rack-and-pinion drive module 2 (helical) and double linear guide (AZSS) and toothed belt drive of the moving carriage and double rail guide (ZSS)

Total stroke = "stroke profile" + "stroke carriage"



Weights

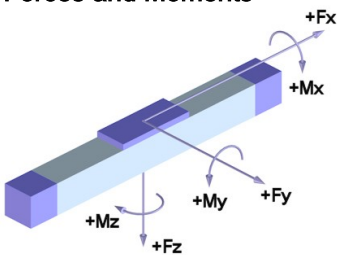
	GDHE
Basic length without stroke:	22.60 kg*
Weight pro 100 mm profile: (± 2x100 mm stroke)	1.70 kg
Carriage 320 mm incl. gear:	7.50 kg
Carriage 200 mm:	1.90 kg
Gear D55:	3.70 kg
Max. total length: (longer on request)	1630 mm

Technical Data

Max. speed:	6.40 m/s
Max. acceleration:	20 m/s ²
Repeat accuracy:	±0.10 mm
Idle torque at drive pinion:	4.0 Nm
Drive element:	Toothed belt 32 AT10
Rack and pinion:	Module 2 helical
Drive pinion:	Module 2, 18 teeth
Stroke per revolution:	2 x 120 mm
Servo-High-performance-gear:	DynaGear D55
Ratios:	5 / 10 / 15

GDHE

Forces and Moments



Forces	GDHE-D55	
	Carriage with drive	Carriage without drive
F_x	Dynamic [N]	Dynamic [N]
F_y	1300-1800 **	
F_z	3000	3000
Moments	Dynamic [N]	Dynamic [N]
M_x	600	500
M_y	1800	1200
M_z	1800	1000

Load F _x	D55
	Dynamic [N]
i = 5:1	1800
i = 10:1	
i = 15:1	1300

Efficiency of gears: > 96 %

* inclusive gear

** depending on gear ratio (see table to right)