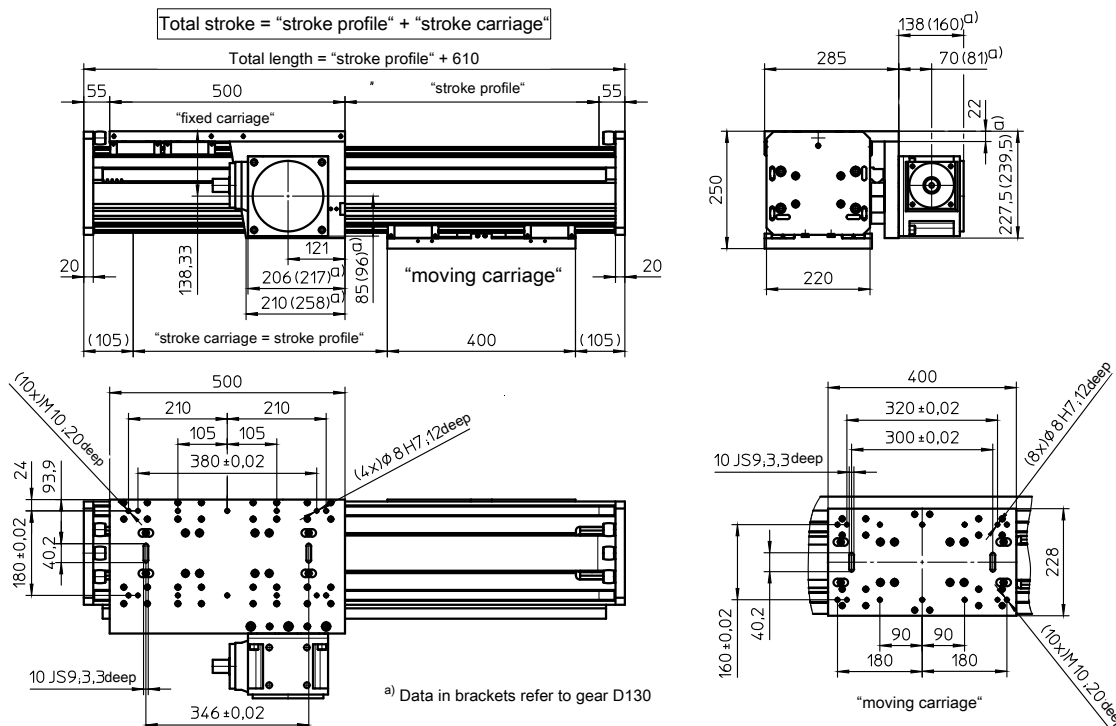


with rack-and-pinion drive module 3 (helical) and double linear guide (AZSS) and toothed belt drive of the moving carriage and double rail guide (ZSS)



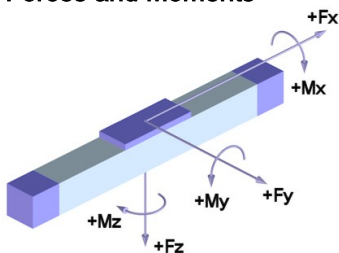
Weights

GDHE

Basic length without stroke:	86.90 kg (D115) / 102.90 kg (D130)*
Weight per 100 mm profile: (± 2x100 mm stroke)	5.20 kg
Carriage 500 mm incl. gear:	37.90 kg (D115) / 51.00 kg (D130)
Carriage 400 mm:	10.50 kg
Gear:	16.65 kg (D115) / 28.30 kg (D130)

Max. total length: 2110 mm
(longer on request)

Forces and Moments



	GDHE-D115	GDHE-D130	
	Carriage with drive	Carriage with drive	Carriage without drive
Forces	Dynamic [N]		Dynamic [N]
F_x	5500-8000 **	9000-13500 **	
F_y	20000		12000
F_z	20000		20000
Moments	Dynamic [N]		Dynamic [N]
M_x	4000		2500
M_y	8000		10000
M_z	8000		8000

Technical Data

GDHE

Max. speed:	8.00 m/s (D115) / 6.60 m/s (D130)
Max. acceleration:	20 m/s ²
Repeat accuracy:	±0,10 mm
Idle torque at drive pinion:	9.0 Nm
Drive element:	Toothed belt 75 ATL10
Rack and pinion:	Module 3 helical
Drive pinion:	Module 3, 20 teeth
Stroke per revolution:	2 x 200 mm
Servo-High-performance-gear:	DynaGear D115 / D130
Ratios:	5 / 10 / 15

	D115	D130
Load F_x	Dynamic [N]	Dynamic [N]
i = 5:1	8000	13500
i = 10:1	5500	9000

Preferred gear: D115
Efficiency of gears: > 96 %

* inclusive gear

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