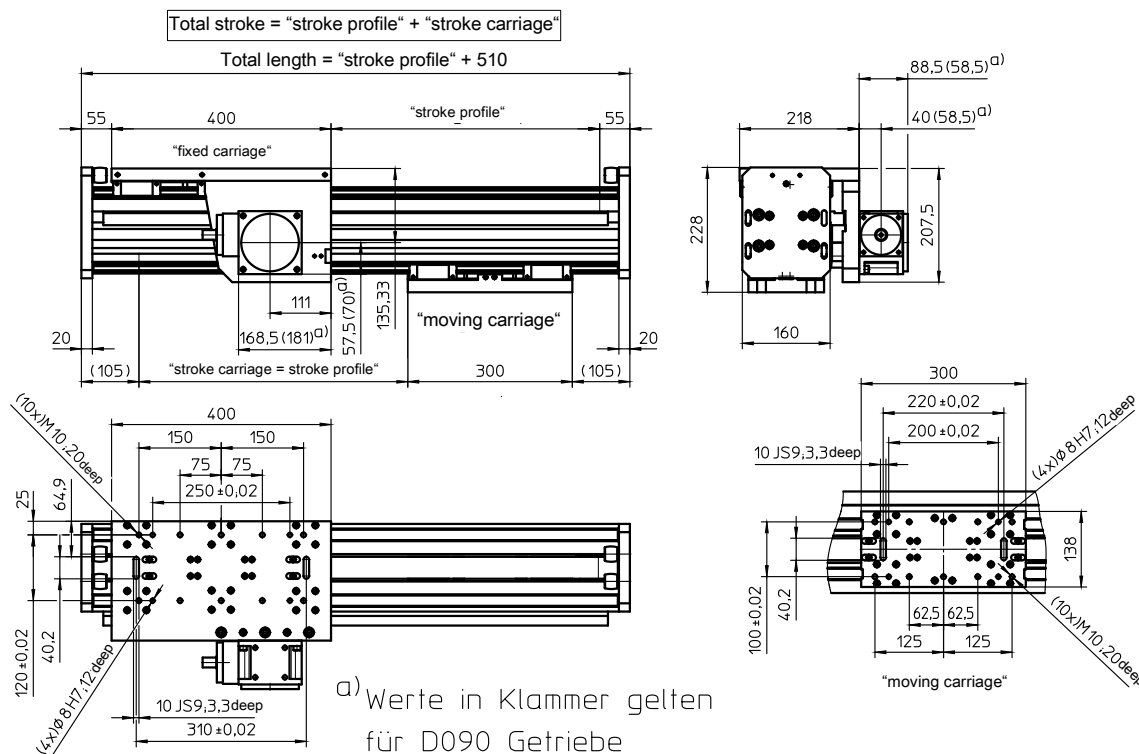


with rack-and-pinion drive module 2 (helical) and double linear guide (AZSS) and toothed belt drive of the moving carriage and double rail guide (ZSS)

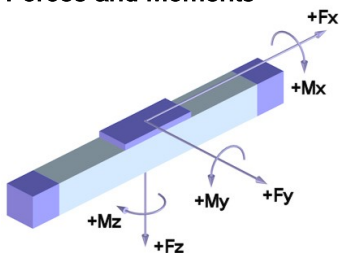


## Weights

	GDHE
Basic length without stroke:	55.20 kg (D75) / 59.40 kg (D90)*
Weight per 100 mm profile: (± 2x100 mm stroke)	3.85 kg
Carriage 400 mm incl. gear:	18.20 kg (D75) / 22.40 kg (D90)
Carriage 300 mm:	6.30 kg
Gear:	6.30 kg (D75) / 10.50 kg (D90)

Max. total length: 2010 mm  
(longer on request)

## Forces and Moments



	GDHE-D75	GDHE-D90	
	Carriage with drive	Carriage with drive	Carriage without drive
<b>Forces</b>	Dynamic [N]		Dynamic [N]
<b>F<sub>x</sub></b>	1500-2200 **	3000-4000 **	
<b>F<sub>y</sub></b>		10000	10000
<b>F<sub>z</sub></b>		16000	16000
<b>Moments</b>	Dynamic [N]		Dynamic [N]
<b>M<sub>x</sub></b>		1800	1350
<b>M<sub>y</sub></b>		7000	5000
<b>M<sub>z</sub></b>		5800	4000

\* inclusive gear

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

## Technical Data

	GDHE
Max. speed:	10.00 m/s (D75) / 9.00 m/s (D90)
Max. acceleration:	20 m/s <sup>2</sup>
Repeat accuracy:	±0.10 mm
Idle torque at drive pinion:	7.5 Nm
Drive element:	Toothed belt <b>40 AT10</b>
Rack and pinion:	Module 2 helical
Drive pinion:	Modul 2, 30 teeth
Stroke per revolution:	2 x 200 mm
Servo-High-performance-gear:	DynaGear D75 / D90
Ratios:	5 / 10 / 15

	D75	D90
<b>Load F<sub>x</sub></b>	Dynamic [N]	Dynamic [N]
<b>i = 5:1</b>		
<b>i = 10:1</b>	2200	4000
<b>i = 15:1</b>	1500	3000

Preferred gear: D75

Efficiency of gears: > 96 %