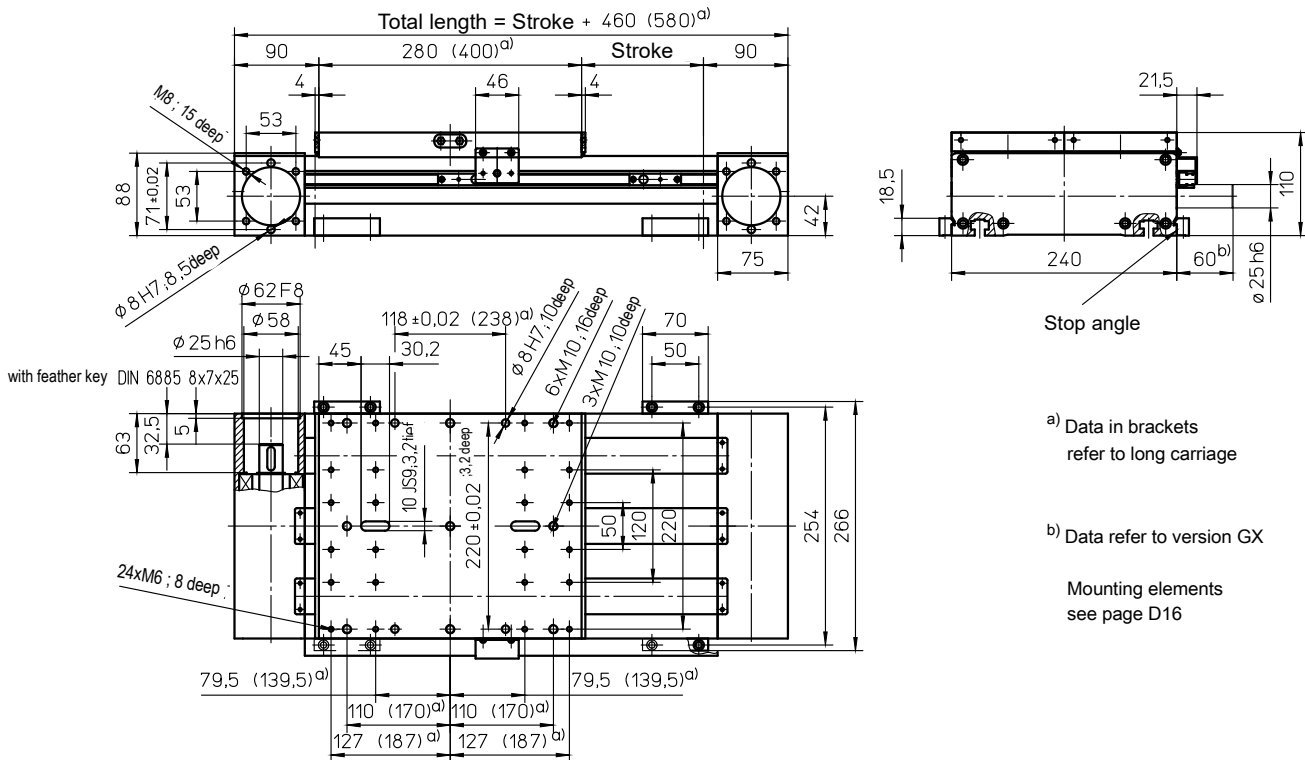


with toothed belt drive and double linear guide (ZSS)



## Weights

## ZSS

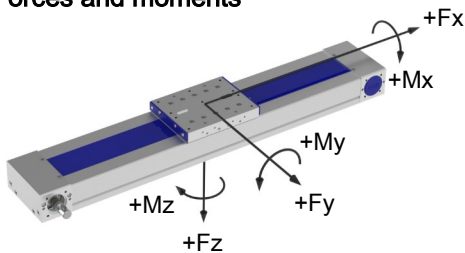
Basic length without stroke:	25.50 kg
100 mm stroke:	2.75 kg
Entire carriage 280 mm:	9.80 kg
Entire carriage 400 mm:	14.00 kg
Max. total length:	8000 mm

## Technical Data

## ZSS

Max. total speed:	5.00 m/s
Max. acceleration:	60 m/s <sup>2</sup>
Repeat accuracy:	± 0.08 mm
Idle torque:	5.50 Nm
Moment of inertia:	2.60 · 10 <sup>-2</sup> kgm <sup>2</sup>
Drive element:	Toothed belt <b>60 ATL10</b>
Stroke per revolution:	180 mm

## Forces and moments



ZSS	
<b>Forces</b>	Dynamic [N]
<b>F<sub>x</sub></b> <sup>ᵃ</sup>	3800
<b>F<sub>y</sub></b>	6000
<b>F<sub>z</sub></b>	12000
<b>-F<sub>z</sub></b>	8000
<b>Moments</b>	Dynamic [Nm]
<b>M<sub>x</sub></b>	4500
<b>M<sub>y</sub></b>	6000 (8500)
<b>M<sub>z</sub></b>	4500 (6400)

<sup>ᵃ</sup> Maximum value (see diagram "F<sub>x</sub>-v-Diagram")  
Data in brackets refer to long carriage (400)

## F<sub>x</sub> - v - Diagram

