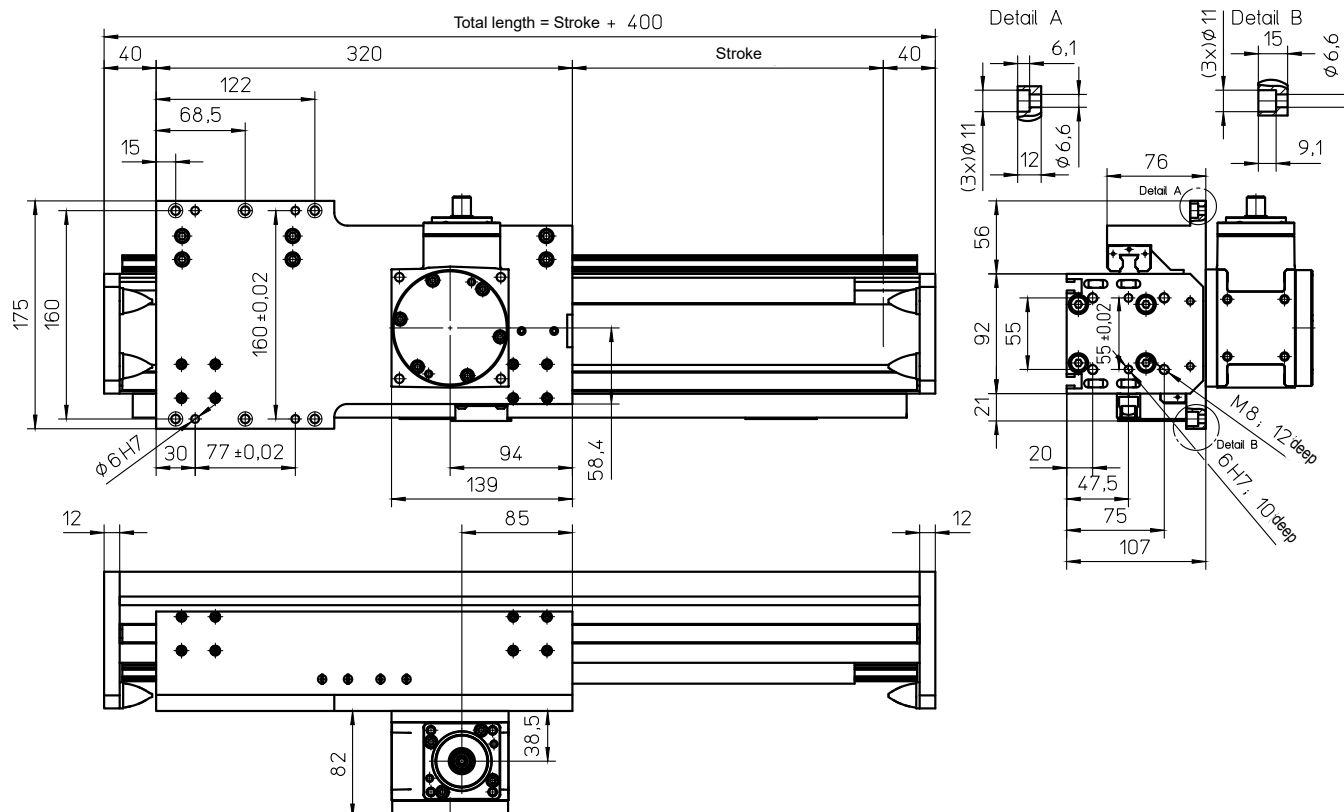


with rack-and-pinion drive (helical) and double linear guide (AZSH)



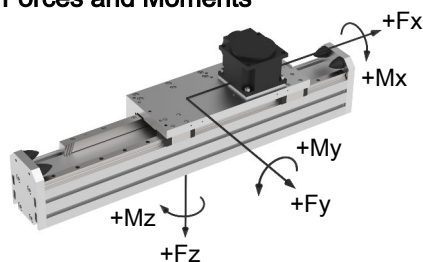
### Weights

### AZSH

|                              |           |
|------------------------------|-----------|
| Basic length without stroke: | 15.00 kg* |
| 100 mm stroke:               | 1.30 kg   |
| Carriage 320 mm:             | 4.35 kg   |
| Gear D55:                    | 3.70 kg   |

Max. total length:  
(longer on request) 8000 mm

### Forces and Moments



|                | AZSH-D55     |
|----------------|--------------|
| <b>Forces</b>  | Dynamic [N]  |
| $F_x$          | 1300-1800 ** |
| $F_y$          | 3000         |
| $F_z$          | 3000         |
| <b>Moments</b> | Dynamic [Nm] |
| $M_x$          | 600          |
| $M_y$          | 1800         |
| $M_z$          | 1800         |

\* inclusive gear

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

Variants for gear mounting see page G29.

### Technical Data

### AZSH

|                               |                     |
|-------------------------------|---------------------|
| Max. speed:                   | 3.20 m/s            |
| Max. acceleration:            | 20 m/s <sup>2</sup> |
| Repeat accuracy:              | ± 0.05 mm           |
| Idle torque at drive pinion:  | 2.5 Nm              |
| Rack and pinion:              | Modul 2 helical     |
| Drive pinion:                 | Modul 2, 18 teeth   |
| Stroke per pinion revolution: | 120 mm              |
| Servo-high-performance-gear:  | DynaGear D55        |
| Ratios:                       | 5 / 10 / 15         |

|                               | D55         |
|-------------------------------|-------------|
| <b>Force <math>F_x</math></b> | Dynamic [N] |
| $i = 5:1$                     | 1800        |
| $i = 10:1$                    |             |
| $i = 15:1$                    | 1300        |

Efficiency of gears: > 96 %