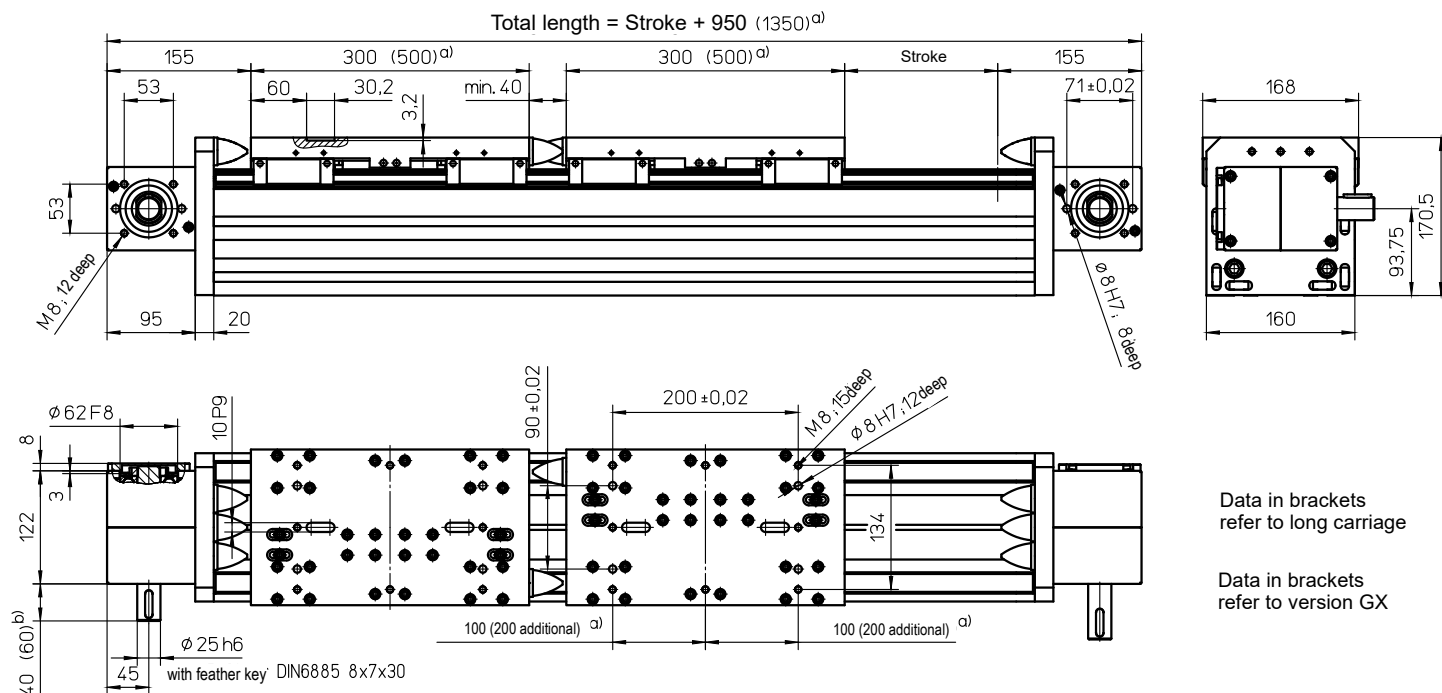


with toothed belt drive and double linear guide and a second independently travelling carriage (ZSSD)

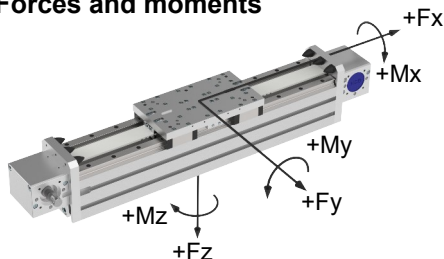


## Weights

## ZSSD

|                              |          |
|------------------------------|----------|
| Basic length without stroke: | 39.80 kg |
| 100 mm stroke:               | 2.50 kg  |
| Entire carriage 300 mm:      | 7.00 kg  |
| Entire carriage 500 mm:      | 9.20 kg  |
| Max. total length:           | 8200 mm  |
| (longer on request)          |          |

## Forces and moments



|                | ZSSD         |
|----------------|--------------|
| <b>Forces</b>  | Dynamic [N]  |
| $F_x^{c)}$     | 2200         |
| $F_y$          | 10000        |
| $F_z$          | 16000        |
| <b>Moments</b> | Dynamic [Nm] |
| $M_x$          | 1800         |
| $M_y$          | 5000 (8000)  |
| $M_z$          | 4000 (7000)  |

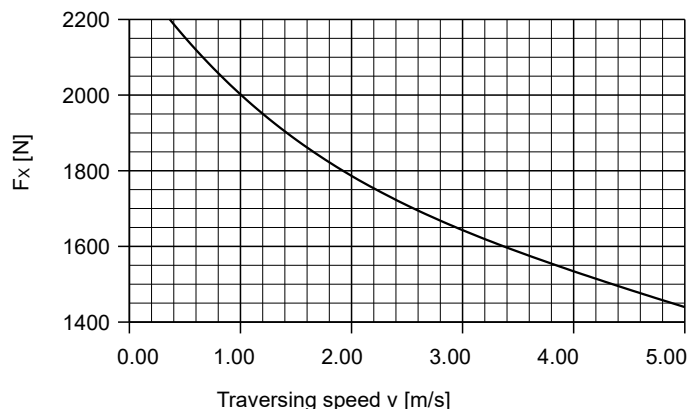
<sup>c)</sup> Maximum value (see diagram „ $F_x$ -v-Diagram“)  
Data in brackets refer to long carriage (500)

## Technical Data

## ZSSD

|                        |                                    |
|------------------------|------------------------------------|
| Max. speed:            | 5.00 m/s                           |
| Max. acceleration:     | 60 m/s <sup>2</sup>                |
| Repeat accuracy:       | ± 0.08 mm                          |
| Idle torque:           | 4,00 Nm                            |
| Moment of inertia:     | $8.75 \cdot 10^{-3} \text{ kgm}^2$ |
| Drive element:         | 2 x Toothed belt <b>32 AT10</b>    |
| Stroke per revolution: | 210 mm                             |

## $F_x$ - v - Diagram



These data apply to each carriage.