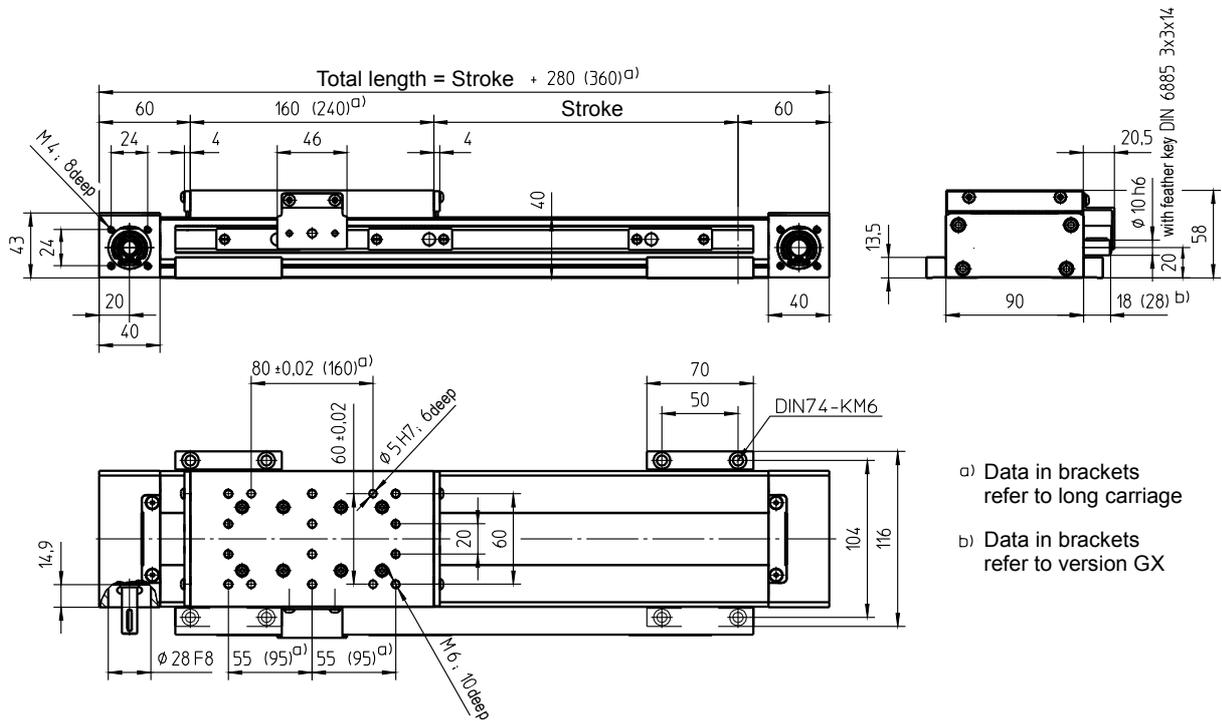


with toothed belt drive and roller guide (ZRS)



- a) Data in brackets refer to long carriage
- b) Data in brackets refer to version GX

## Weights

## ZRS

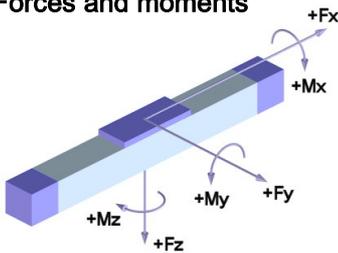
Basic length without stroke:	2.95 kg
100 mm stroke:	0.42 kg
Entire carriage 160 mm:	1.30 kg
Entire carriage 240 mm:	1.85 kg
Max. total length:	4000 mm

## Technical Data

## ZRS

Max. total speed:	5.00 m/s
Max. acceleration:	30 m/s <sup>2</sup>
Repeat accuracy:	± 0.08 mm
Idle torque:	2.00 Nm
Moment of inertia:	4.65 · 10 <sup>-4</sup> kgm <sup>2</sup>
Drive element:	Toothed belt <b>32 AT5-E</b>
Stroke per revolution:	100 mm

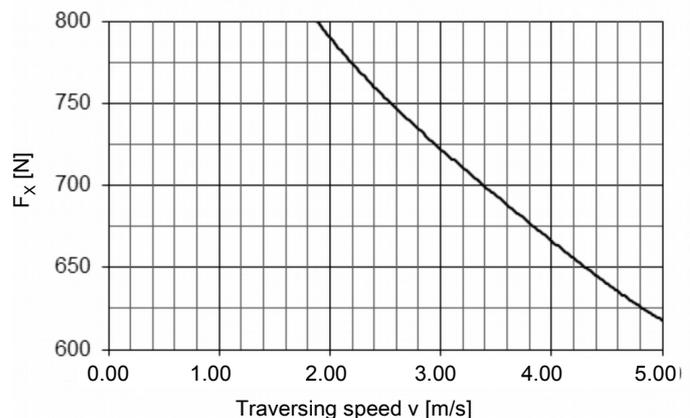
## Forces and moments



ZRS	
Forces	Dynamic [N]
$F_x$ <sup>d)</sup>	800
$F_y$	500
$F_z$	1000
$-F_z$	1000
Moments	Dynamic [Nm]
$M_x$	60
$M_y$	80 (110)
$M_z$	80 (110)

<sup>d)</sup> Maximum value (see diagram "F<sub>x</sub> -v-Diagram")  
Data in brackets refer to long carriage (240)

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



>> **Note** << Drive shaft is not changeable

Please define position, e.g. "AZ1"! (See Ordering Code)