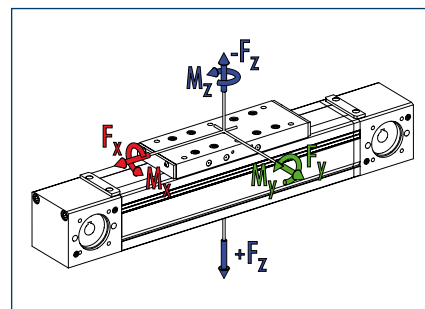


Advantages of profiled rail guide

- High load bearing capacity
- Long lifetime
- High precision

Loads and load torques



Load		Dynamic
■ F_x^{**}	[N]	1500
■ F_y	[N]	1800
■ F_z	[N]	4000
■ $-F_z$	[N]	3000
Load torques		Dynamic
■ M_x	[Nm]	350
■ M_y	[Nm]	750 (1000)
■ M_z	[Nm]	750 (1000)
■ M_{Amox}	[Nm]	40.7

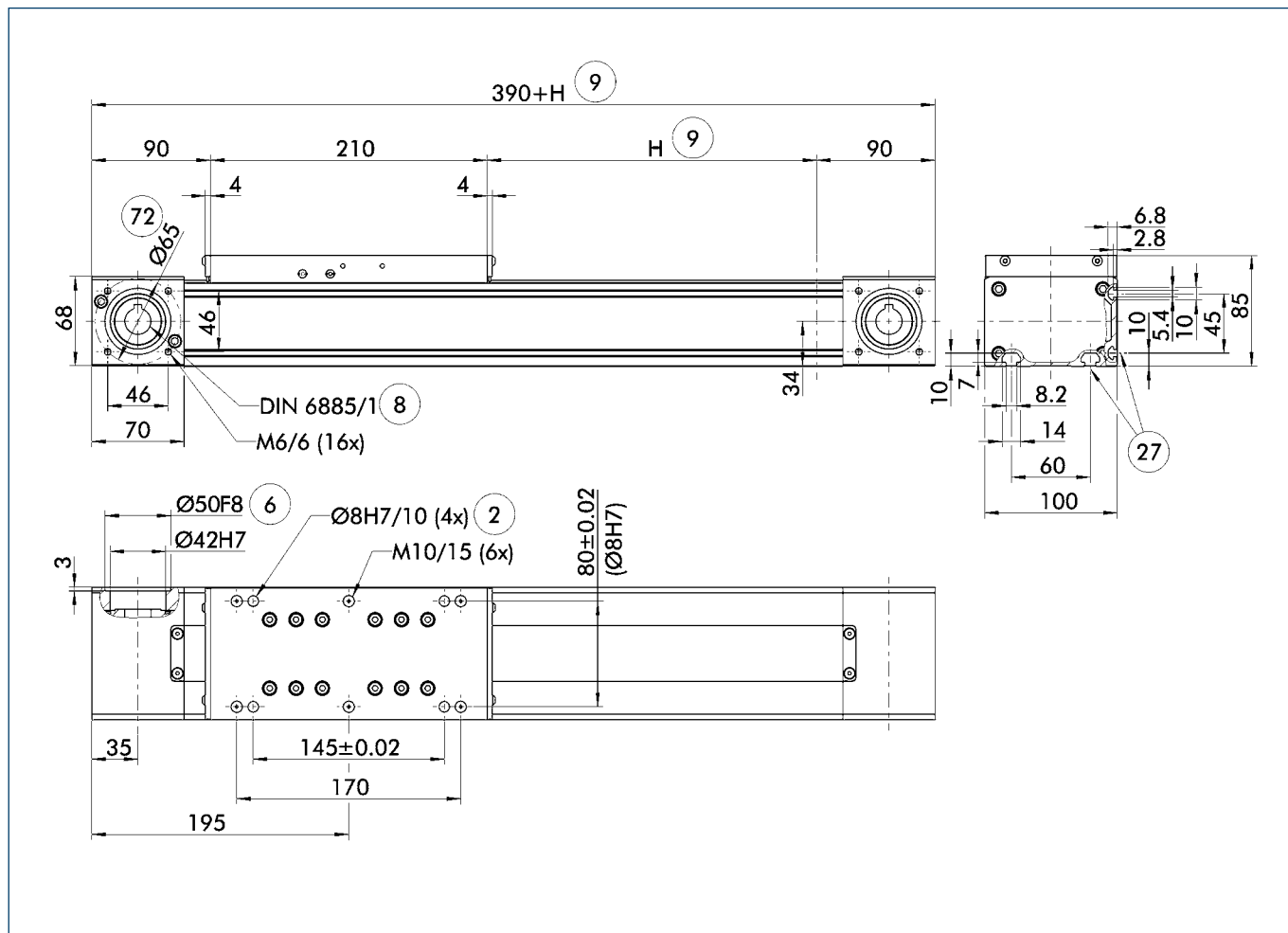
** Maximum value = Depending on speed

① Values in brackets relate to the long slide.

Technical data

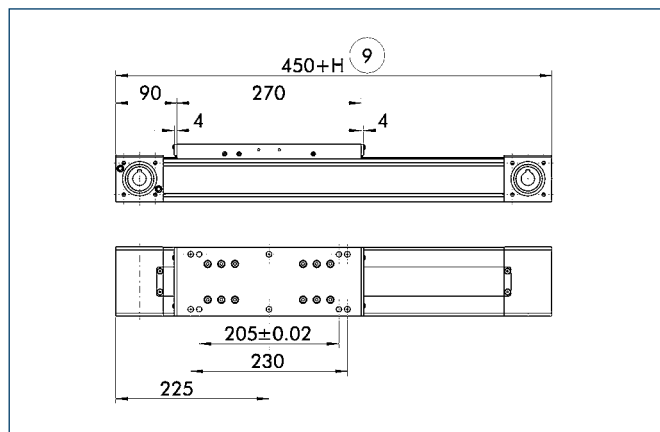
Designation		B 100D-ZSS
Max. travel speed	[m/s]	5
Repeat accuracy	[mm]	± 0.08
Max. acceleration	[m/s ²]	60
Idle torque	[Nm]	2.5
Drive		
Drive element	Toothed belt	40 AT 10-E
Travel per revolution	[mm]	160
Maximum stroke	[mm]	7720
Max. total length	[mm]	8100
Moment of inertia	[kgm ²]	0.0028
Weights		
Basic without travel	[kg]	6.8
Travel per 100 mm	[kg]	0.75
Slide plate 210 mm	[kg]	3.5
Slide plate 270 mm	[kg]	4.1

Main views



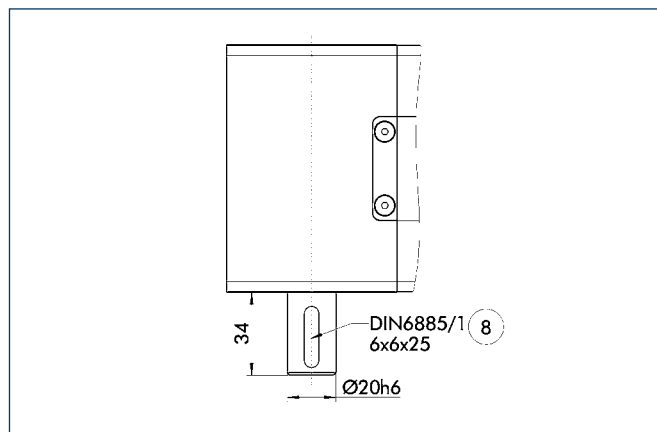
- ② Assembly connection
- ⑥ Drive connection
- ⑧ Feather key DIN 6885
- ⑨ Useful stroke
- ⑲ Mounting groove for T-nuts
- ⑳ Bolt pitch circle

Long slide



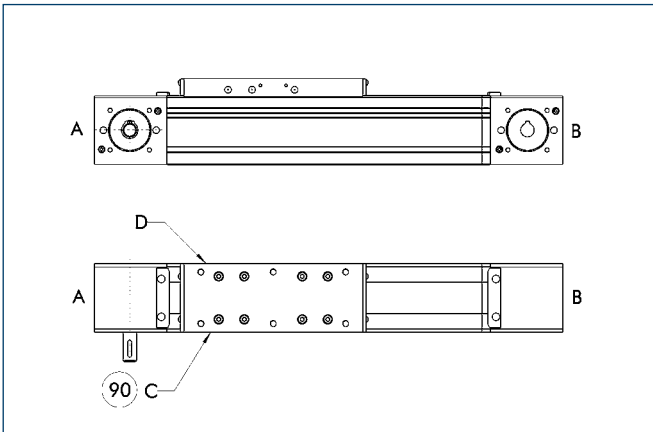
- ⑨ Useful stroke

Drive journal connection dimensions



- ⑧ Feather key

Limit switch position



90 Limit switch standard position

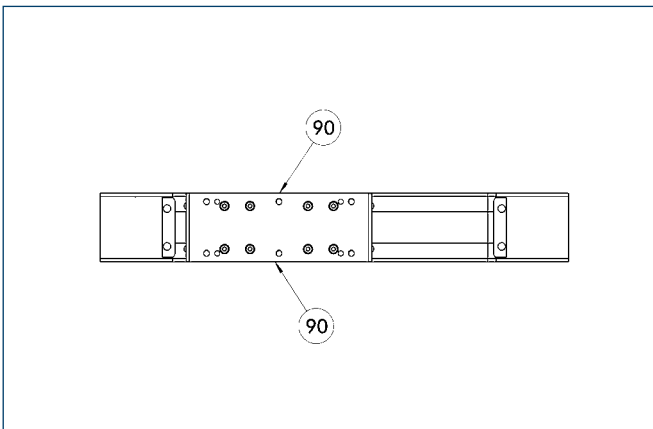
Two E02 switches are used as limit switches and an RS2 as the reference switch as standard.

① The positions and dimensions of limit switches, switching lugs, and mounting components may vary depending on the application and the selected limit switches. Please contact us for assistance.

Limit switch selection

Designation	Order designation	ID no.
Inductive limit switch, opener, 2 m cable	E02	0331410
Inductive limit switch, opener, 10 m cable	E010	0331412
Inductive limit switch, closer, 2 m cable	ES2	0331411
Inductive limit switch, closer, 10 m cable	ES10	0331413
Mechanical limit switch (Siemens), opener	EMS	0331414
Mechanical limit switch (Balluff), opener	EMB	0331415

Lubrication connections



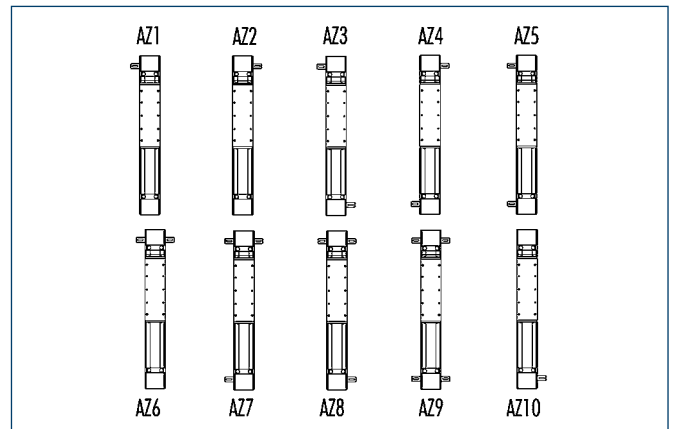
90 Standard lubrication connection

Standard connection

Lubrication nipple M8x1

If the lubrication connection has a different seat, this must be defined in the order text.

Drive shafts



Depending on the axis application, the drive shaft seat may need to be defined in the order text. Particularly with axis combinations and mechanical synchronization, multiple drive shafts - some of them continuous shafts - are required.



More detailed information on pedestal bearings, connection shafts and bevel gears can be found in the "OPTIONS for System HSB" section of the catalog.