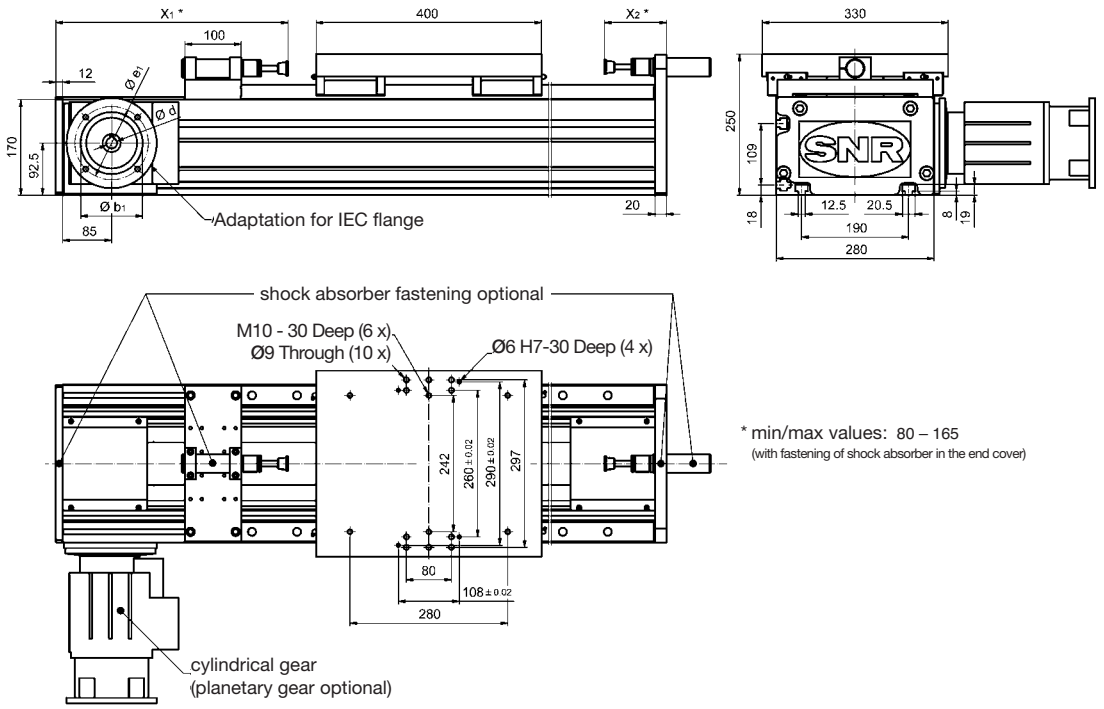
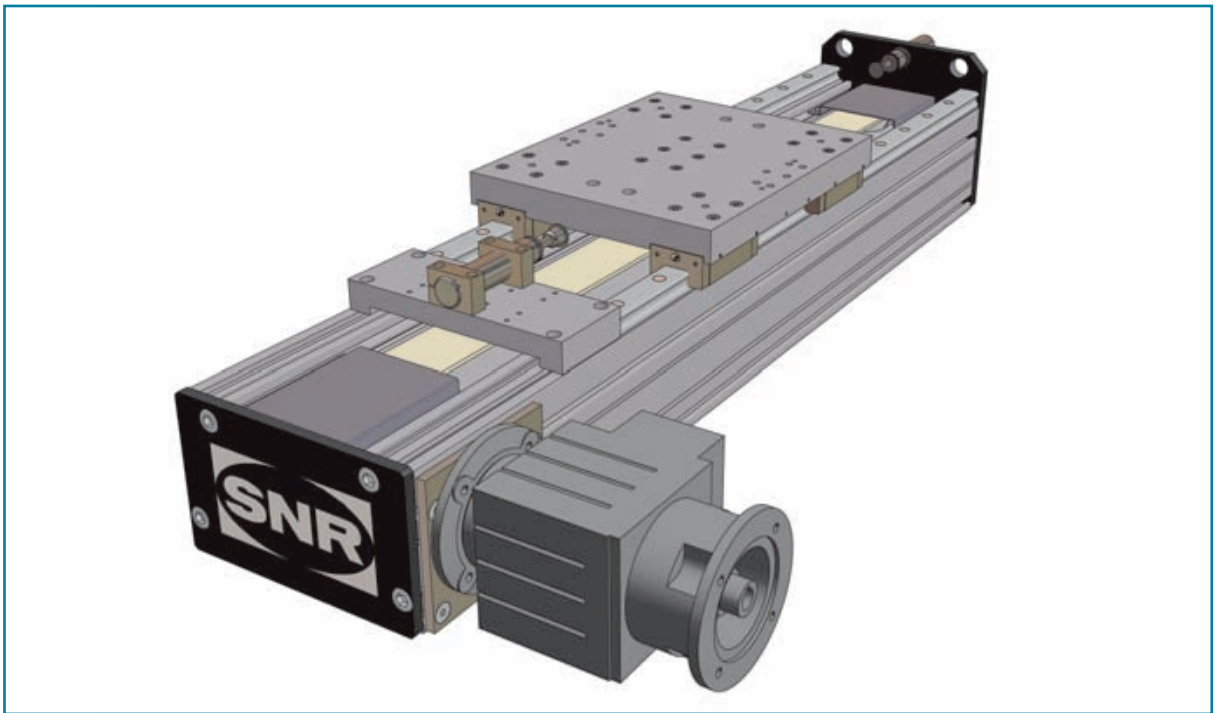
AXS280Z gantry axis

with rack and pinion drive and profile ball rail guide

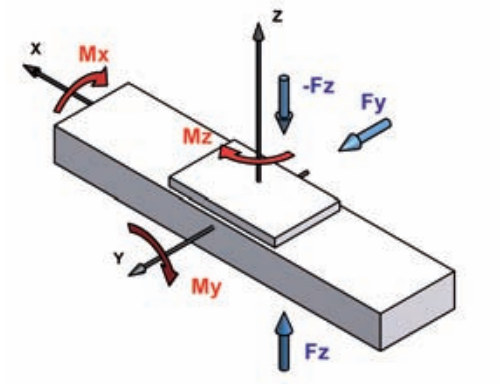




Loads and torque loads

	Ball rail guide	
ID number	**B**	
Table length [mm]	**400**	
Loads [N]	**dyn.**	**stat.**
Fy	24.000	77.000
Fz	24.000	77.000
-Fz	24.000	77.000
Torque loads [Nm]	**dyn.**	**stat.**
Mx	2.600	8.300
My	2.950	9.400
Mz	2.950	9.400

The dynamic load-bearing capacities of the guidance system are based on a nominal service life of 54,000 km.



Technical specifications

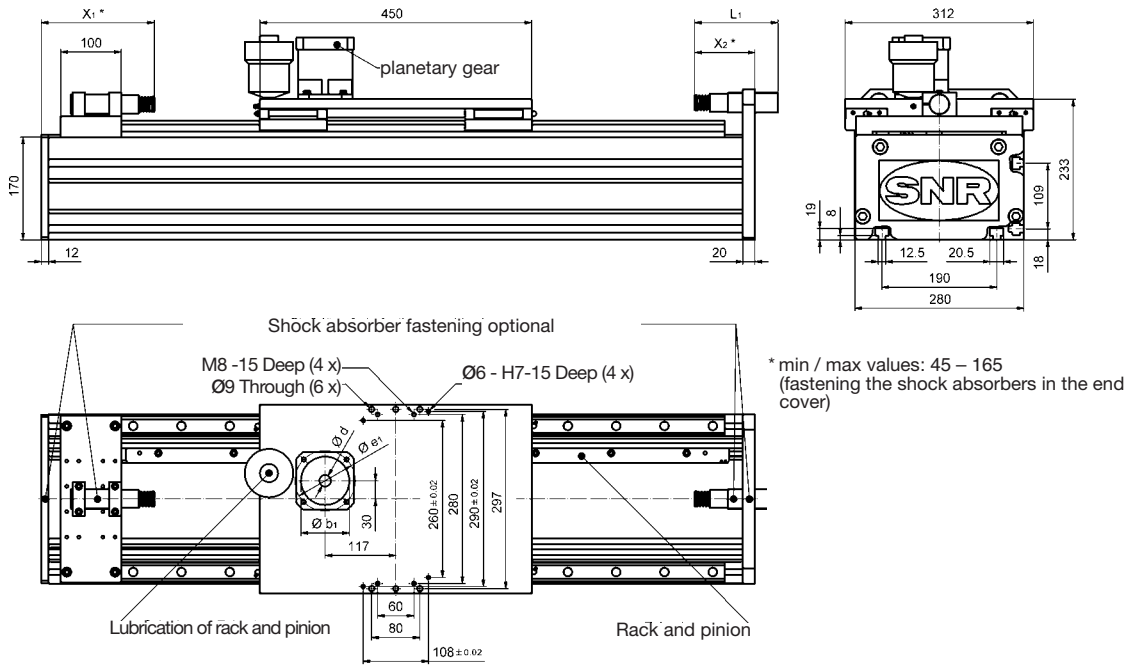
Max. traverse rate [m/min]	300
Drive element	Synchronous belt 75AT10
Allowable. dyn. working load [N]	4.000
Lift per revolution [mm]	480
Max. energy absorption per end absorber [Nm]	900
Idling speed torque [Nm]	9
Inertia [kgcm^2]	227,6
Geometrical moment of inertia Iy [cm^4]	14.645
Geometrical moment of inertia Iz [cm^4]	7.958
Maximal total length [m]	10 (one part) [1)]

1) Greater lengths upon request.

	Ball rail guide
ID number	**B**
Base mass [kg]	78,0
Mass per 100 mm of travel distance [kg]	4,6
Carriage mass [kg]	19,0

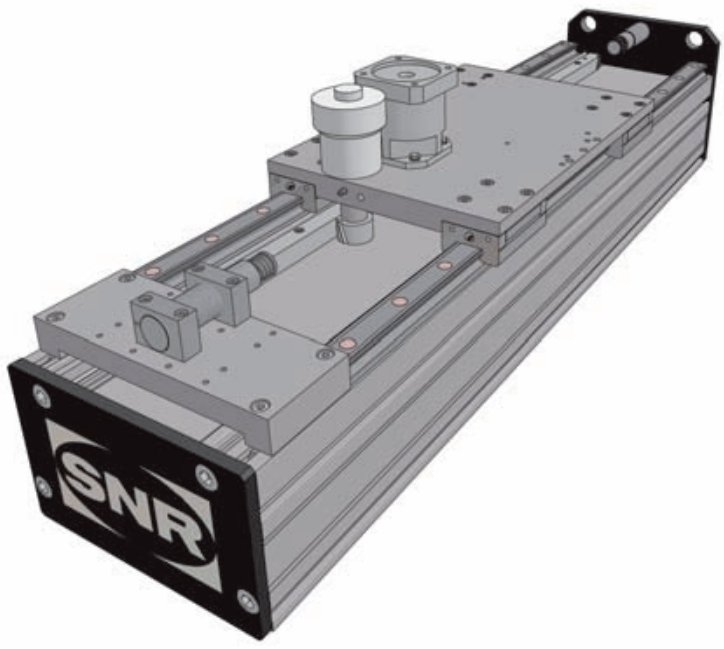
Subject to technical modifications.
Masses without gearbox.

AXS280M200 gantry axis
with rack and pinion drive and profile ball rail guide



* min / max values: 45 – 165
(fastening the shock absorbers in the end cover)

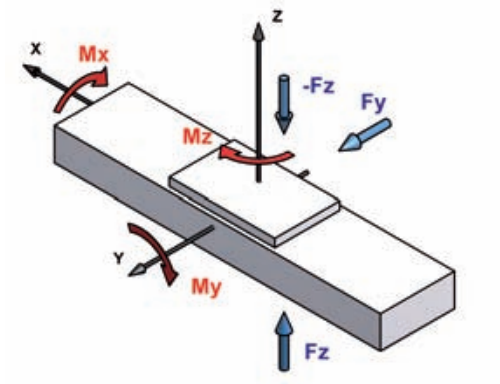
• **Description: multi-purpose use, for combination with lifting axes** **(see page 117).**



Loads and torque loads

	Ball rail guide	
ID number	B	
Table length [mm]	450	
Loads [N]	dyn.	stat.
Fy	24.000	77.000
Fz	24.000	77.000
-Fz	24.000	77.000
Torque loads [Nm]	dyn.	stat.
Mx	2.600	8.300
My	3.500	11.200
Mz	3.500	11.200

The dynamic load-bearing capacities of the guidance system are based on a nominal service life of 54,000 km.



Technical specifications

Max. traverse rate [m/min]	198
Drive element	Rack and pinion, module 2
Allowable. dyn. working load [N]	3.190
Lift per revolution [mm]	200
Max. energy absorption per end absorber [Nm]	900
Geometrical moment of inertia Iy [cm^4]	14.645
Geometrical moment of inertia Iz [cm^4]	7958
Maximal total length [m]	10 [1)]

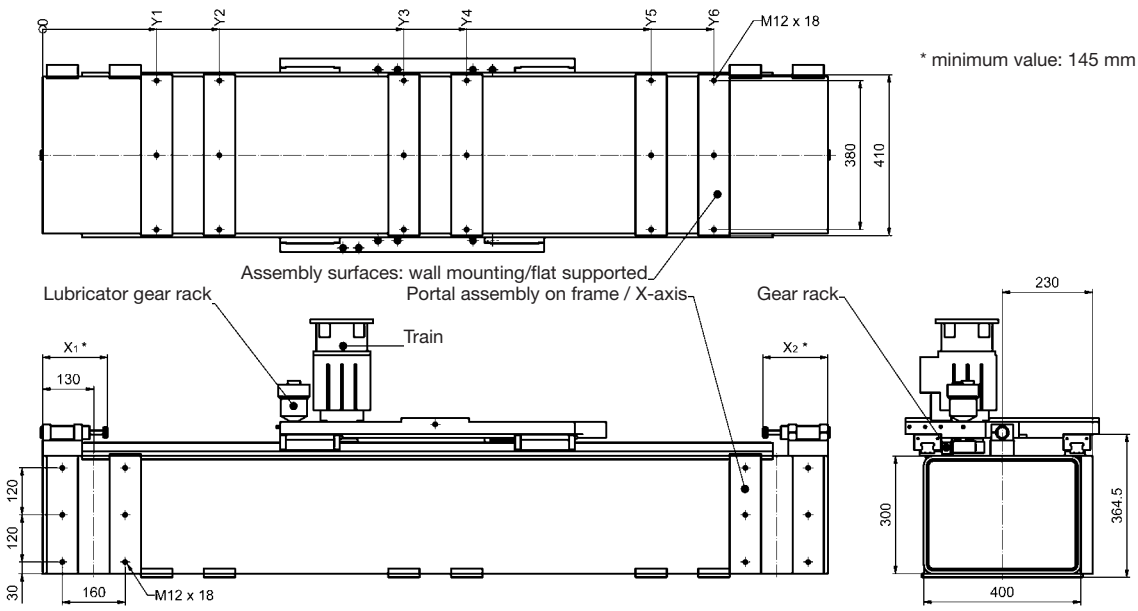
1) Greater lengths upon request.

	Caged ball linear guide
ID number	B
Base mass [kg]	52,0
Mass per 100 mm of travel distance [kg]	4,9
Carriage mass [kg]	16,5

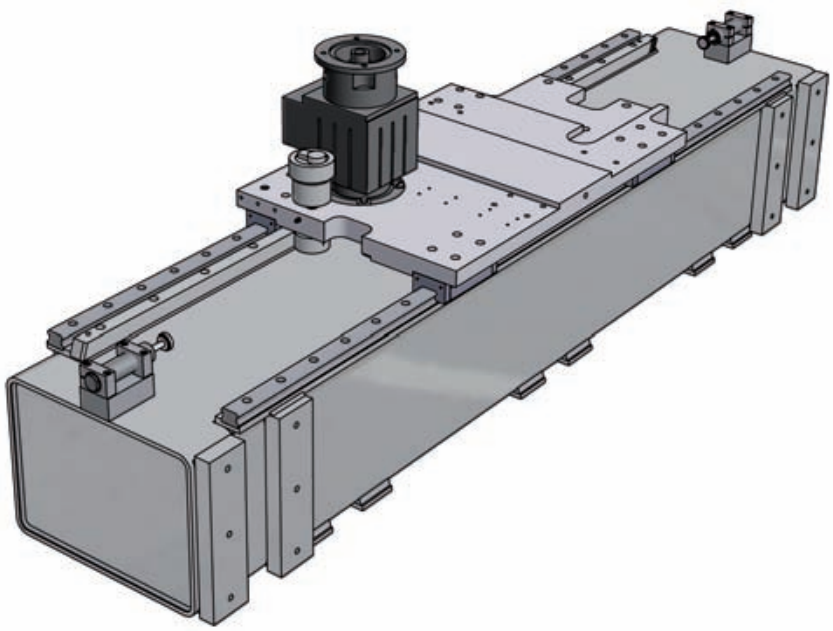
Subject to technical modifications.
Masses without gearbox.

AXS460M250 gantry axis

with rack and pinion drive and profile ball rail guide



• **Other Dimensions (s. page 117)**



Loads and torque loads

	Ball rail guide	
ID number	**B**	
Table length [mm]	**600**	
Loads [N]	**dyn.**	**stat.**
Fy	28.000	100.000
Fz	28.000	100.000
-Fz	28.000	100.000
Torque loads [Nm]	**dyn.**	**stat.**
Mx	4.500	16.000
My	5.800	21.000
Mz	5.800	21.000

The dynamic load-bearing capacities of the guidance system are based on a nominal service life of 54,000 km.

Technical specifications

Max. traverse rate [m/min]	300
Drive element	Rack and pinion, module 3
Allowable dynamic working load [N]	5.860
Lift per revolution [mm]	250
Max. energy absorption per end absorber [Nm]	900
Geometrical moment of inertia Iy [cm^4]	88.490
Geometrical moment of inertia Iz [cm^4]	54.170
Maximal total length [m]	10 [1)]

1) Greater lengths upon request.

	Ball rail guide
ID number	**B**
Base mass [kg]	139,5
Mass per 100 mm of travel distance [kg]	8,9
Carriage mass [kg]	46,5

Subject to technical modifications.
Masses without gearbox.