

Advantages of roller guide

High maximum moments
due to optimum force transmission to the profile

Long stroke lengths
can be achieved with no problems

Life-time lubricated rollers
for easy maintenance use

Smooth, low-noise running

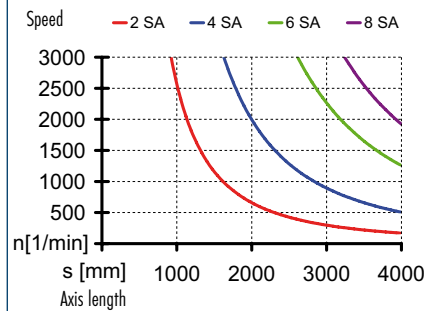
Advantages of profiled rail guide

High load bearing capacity

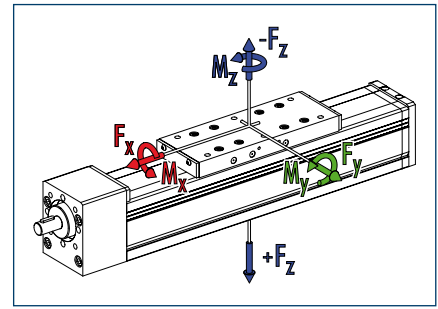
Long lifetime

High precision

Spindle supports SA



Loads and load torques



Load	SRS dynamic	SSS dynamic
F_x^{**} [N]	2000	2000
F_y [N]	300	600
F_z [N]	1000	1800
$-F_z$ [N]	400	1200
Load torques	SRS dynamic	SSS dynamic
M_x [Nm]	35	60
M_y [Nm]	120 (150)	180 (220)
M_z [Nm]	60 (70)	120 (150)
M_{Amax} [Nm]	1.9 (p=5)	2.0 (p=5)
	3.5 (p=10)	3.6 (p=10)
	6.7 (p=20)	6.8 (p=20)

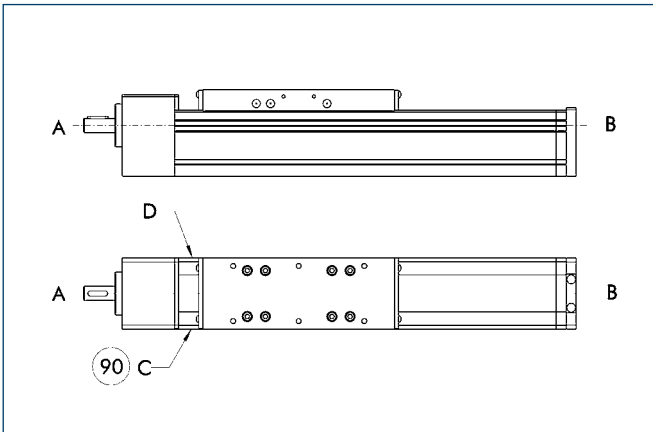
** Depends on speed and pitch n_{max}
KGT = 3000 rpm; TGT = 1500 rpm

① Values in brackets relate to the long slide.

Technical data

Designation		B 70C-SRS	B 70C-SSS
Max. travel speed	[m/s]	1.0	1.0
Repeat accuracy	[mm]	± 0.03	± 0.03
Max. acceleration	[m/s ²]	20	20
Idle torque	[Nm]	0.35	0.4
Maximum stroke	[mm]	2730	2730
Max. total length	[mm]	3050	3050
Moment of inertia	[kgm ²]	0.0000325	0.0000325
Drive element		Ball screw spindle drive	Ball screw spindle drive
Max. spindle speed	[rpm]	3000	3000
Diameter	[mm]	16	16
Pitch	[mm]	5 / 10 / 20	5 / 10 / 20
Drive element		Trapezoidal threaded drive	Trapezoidal threaded drive
Max. spindle speed	[rpm]	1500	1500
Diameter	[mm]	16	16
Pitch	[mm]	4 / 8	4 / 8
Weights			
Basic without travel	[kg]	3.65	3.5
Travel per 100 mm	[kg]	0.45	0.6
Slide plate 190 mm	[kg]	1.6	1.25
Slide plate 240 mm	[kg]	2.02	1.6

Limit switch position



90 Limit switch standard position

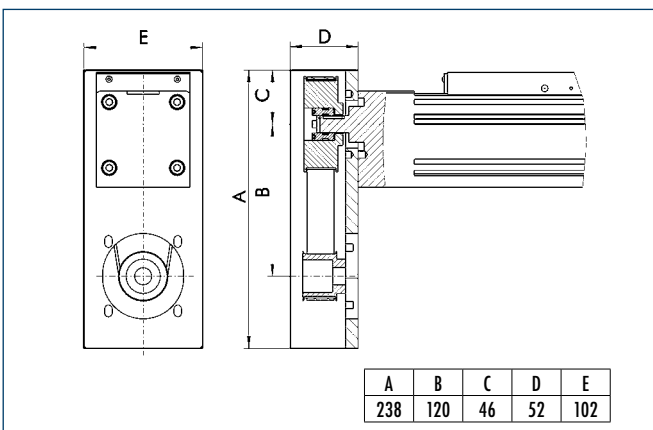
Two E02 switches are used as limit switches and an RS2 as the reference switch as standard.

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

Angle gear schematic diagram



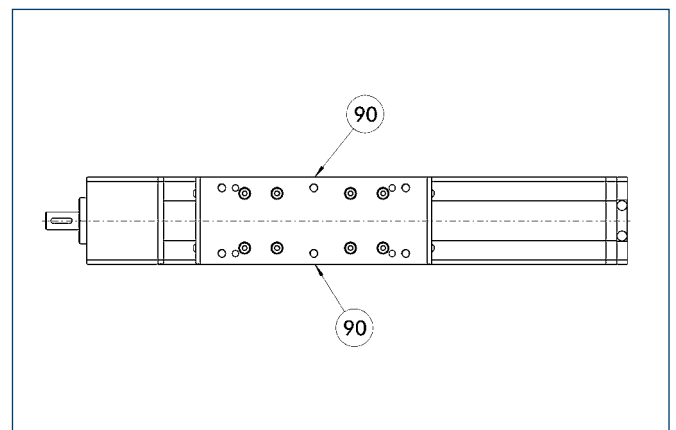
Possible transmission ratios: $i = 1 : 1$, $i = 2 : 1$, $i = 3 : 1$

Caution: Dimension C can change at $i \neq 1:1$ or with smooth motor shafts (without feather key).

Even in tight conditions, different drive solutions can be attached. SCHUNK can provide you with the right angle gear for your drive.

① Because of the different thermal behavior of motors, we recommend that the drive solution is tested by the motor manufacturer.

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.

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