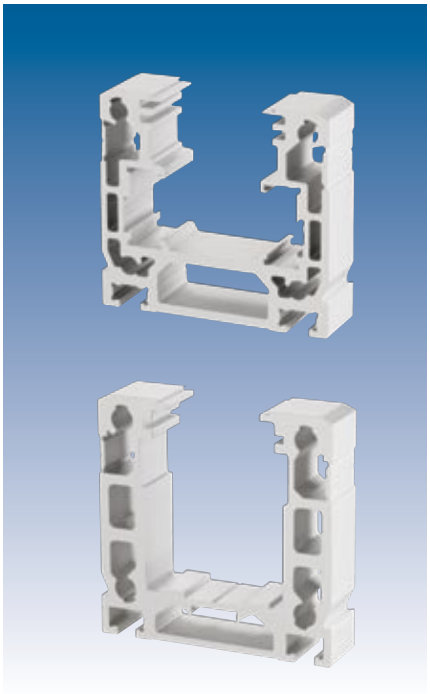
B 70C-SRS-RL/-SSS-RL



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

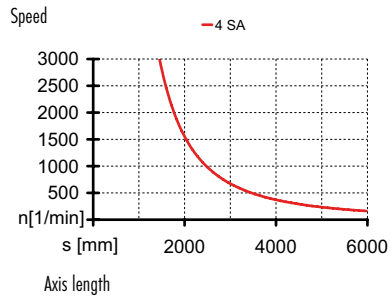
Advantages of profiled rail guide

High load bearing capacity

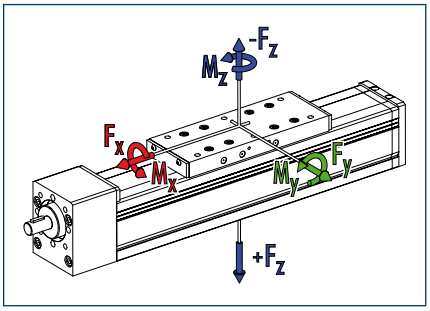
Long lifetime

High precision

Spindle supports SA



Loads and load torques



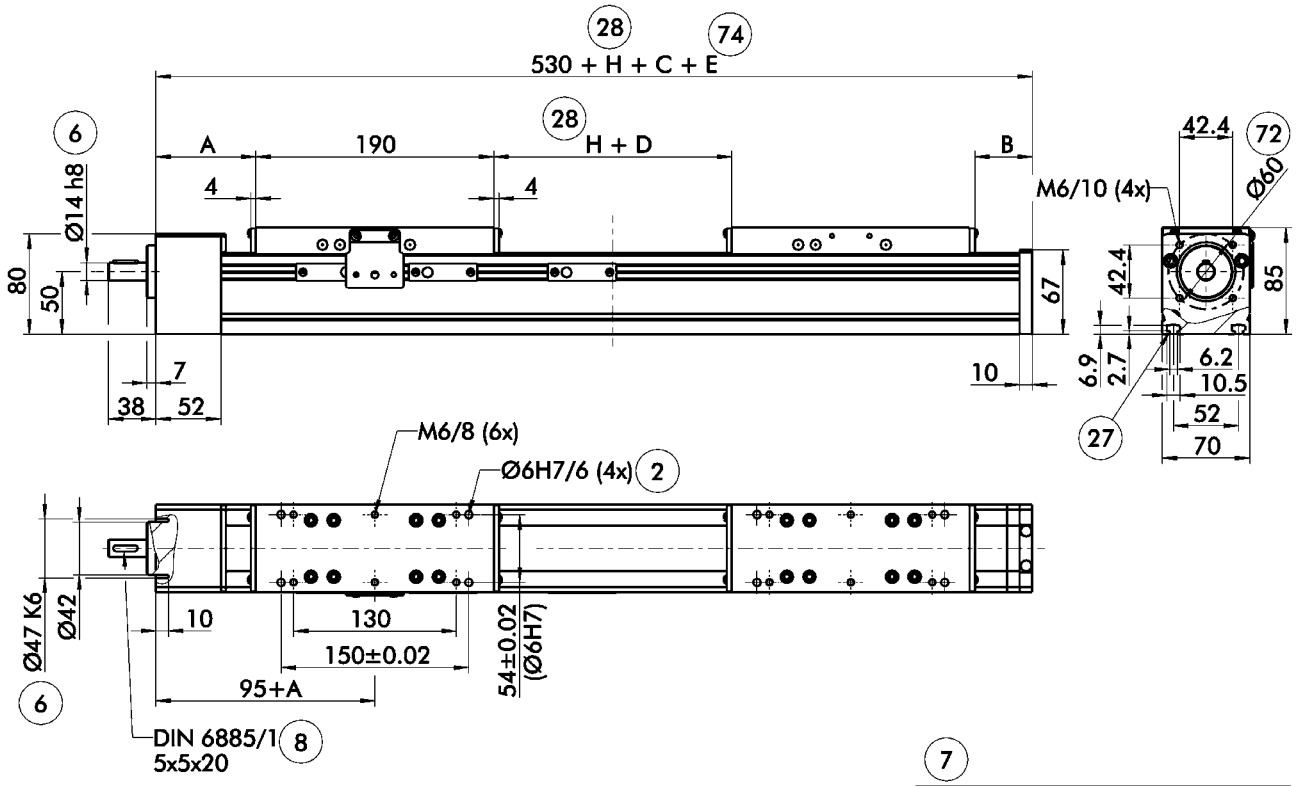
Load		SRS-RL dynamic	SSS-RL dynamic
F_x **	[N]	2000	2000
F_y	[N]	300	600
F_z	[N]	1000	1800
$-F_z$	[N]	400	1200
Load torques		**SRS-RL dynamic**	**SSS-RL dynamic**
M_x	[Nm]	35	60
M_y	[Nm]	120 (150)	180 (220)
M_z	[Nm]	60 (70)	120 (150)
M_{Amax}	[Nm]	On request	On request

** Depends on speed and pitch n_{max}
KGT = 3000 rpm; TGT = 1500 rpm
ⓘ Values in brackets relate to the long slide.

Technical data

Designation		B 70C-SRS-RL	B 70C-SSS-RL
Max. travel speed	[m/s]	0.1	1.0
Repeat accuracy	[mm]	**± 0.03**	**± 0.03**
Max. acceleration	[m/s²]	20	20
Idle torque	[Nm]	0.35	0.4
Maximum stroke	[mm]	1255 per slide	1255 per slide
Max. total length	[mm]	3050	3050
Moment of inertia	[kgm²]	0.0000325	0.0000325
Drive element		**Trapezoidal threaded drive**	**Trapezoidal threaded drive**
Max. spindle speed	[rpm]	1500	1500
Diameter	[mm]	16	16
Pitch	[mm]	4 right/left	4 right/left
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

Main views



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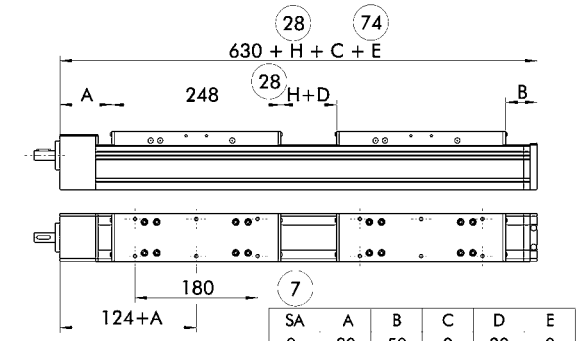
SA	A	B	C	D	E
0x	80	50	0	20	0
4x	100	70	80	60	20
8x	120	90	160	120	40

(2) Assembly connection
(6) Drive connection
(7) Number of spindle supports
(8) Feather key DIN 6885
(27) Mounting groove for T-nuts
(28) Total stroke = 2 x stroke per slide
(72) Bolt pitch circle
(74) E for spindle supports with insulated noise emissions

Long slide

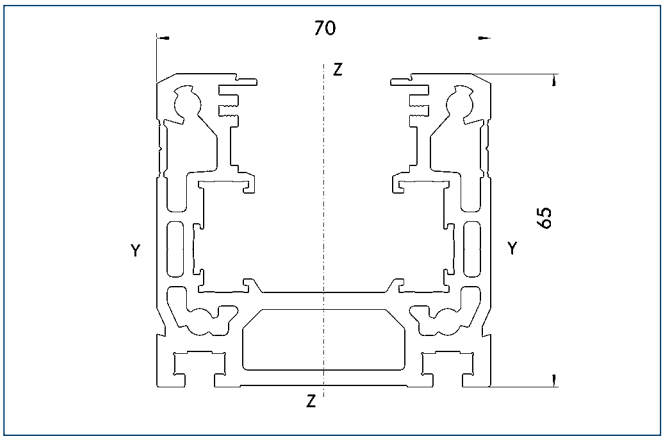


SA	A	B	C	D	E
0x	80	50	0	20	0
4x	100	70	80	60	20
8x	120	90	160	120	40

(7) Number of spindle supports
(28) Total stroke = 2 x stroke per slide
(74) E for spindle supports with insulated noise emissions

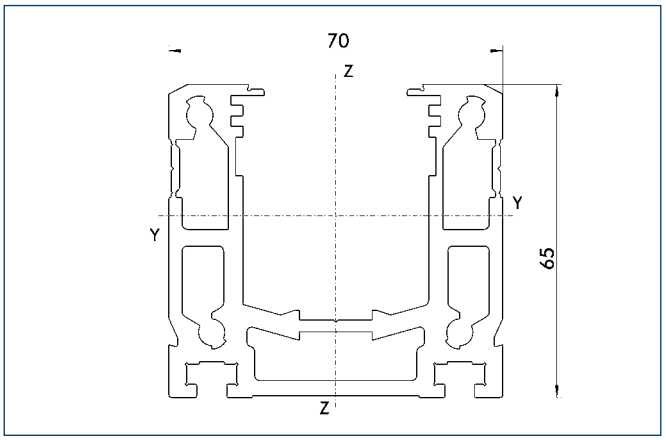
B 70C-SRS-RL/-SSS-RL

Profile SRS



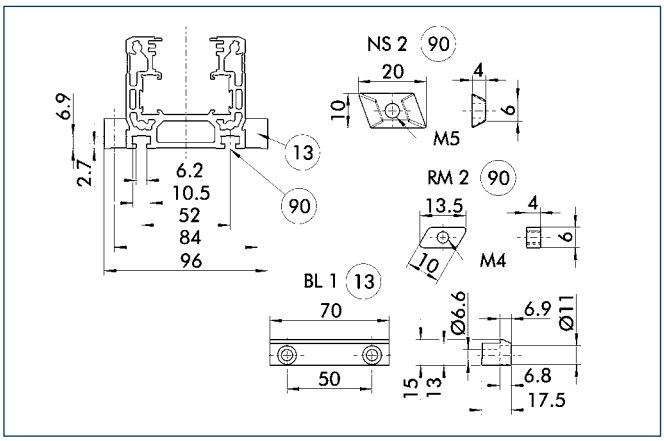
Specific mass	[kg/m]	3.7
Planar dimension	[mm²]	1370
Planar moment of inertia I_y	[mm⁴]	585283
Planar moment of inertia I_z	[mm⁴]	854713
Load torque W_y	[mm³]	15835
Load torque W_z	[mm³]	24410

Profile SSS



Specific mass	[kg/m]	3.7
Planar dimension	[mm²]	1370
Planar moment of inertia I_y	[mm⁴]	563059
Planar moment of inertia I_z	[mm⁴]	852507
Load torque W_y	[mm³]	14743
Load torque W_z	[mm³]	24335

Mounting

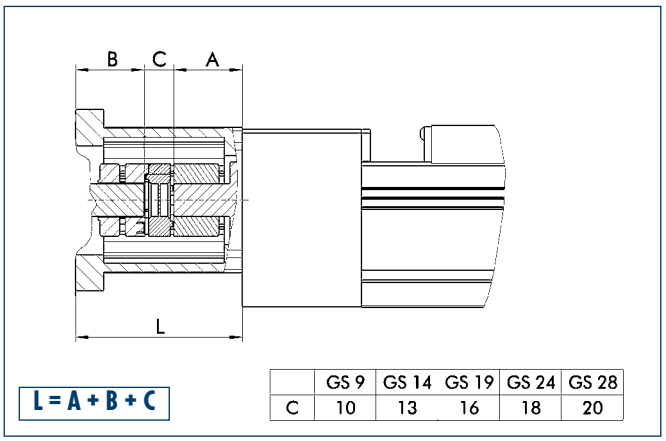


(13) Mounting strip (90) Base side T-nut

The profile can be secured either using T-nuts or mounting strips.

Designation	Order designation	ID no.
T-nut	NS2	0331405
T-nut	RM2	0331425
Mounting strip	BL1	0331400

Motor flange schematic diagram



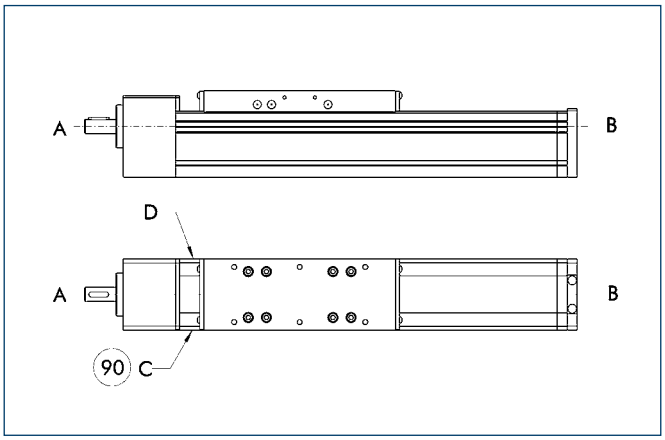
	GS 9	GS 14	GS 19	GS 24	GS 28
C	10	13	16	18	20

The table shows the relevant dimension **C of the standard couplings.**
For dimension A refer to drive journal connection dimensions, for dimension B refer to corresponding motor dimension sheet, dimension L may differ in individual cases.
Different drive solutions can be attached to our axes.
SCHUNK can supply you with the right motor flange and coupling for your drive.

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

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

Limit switch position



90 Limit switch standard position

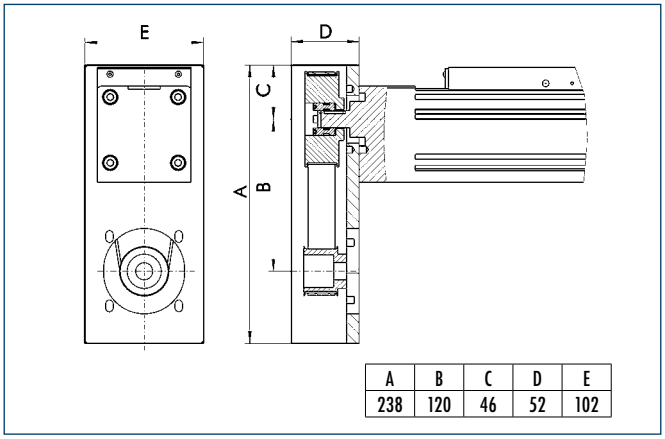
Two EO2 switches are used as limit switches and an RS2 as the reference switch as standard.

ⓘ 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	EO2	0331410
Inductive limit switch, opener, 10 m cable	EO10	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

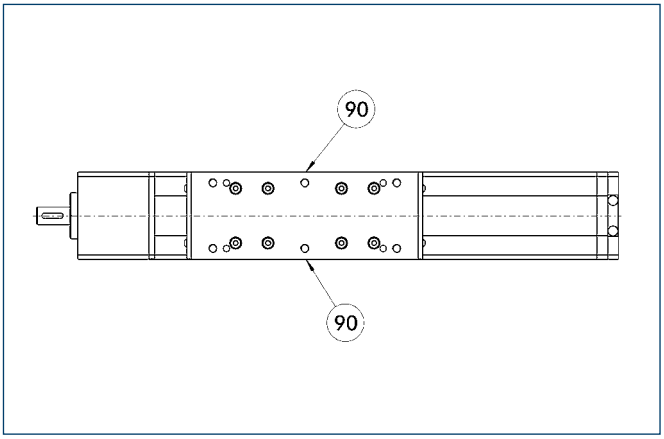


A	B	C	D	E
238	120	46	52	102

Possible transmission ratios: i = 1 : 1, i = 2 : 1, i = 3 : 1
Caution: Dimension C can change at i ≠ 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.

ⓘ 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.

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