Rail guide tables



Content

The SKF® brand now stands for more than ever before, and means more to you as a valued customer.

While SKF maintains its leadership as the hallmark of quality bearings throughout the world, new dimensions in technical advances, product support and services have evolved SKF into a truly solutions-oriented supplier, creating greater value for customers.

These solutions encompass ways to bring greater productivity to customers, not only with breakthrough application-specific products, but also through leading-edge design simulation tools and consultancy services, plant asset efficiency maintenance programmes, and the industry's most advanced supply management techniques.

The SKF brand still stands for the very best in rolling bearings, but it now stands for much more.

SKF – the knowledge engineering company

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General

SKF rail guide tables are state-of-the-art tables with high accuracy and high load carrying capacity.
They are available in the following variations:

- five different sizes,
- three different covers
- two different drives
- four precision classes.

Sizes

SKF rail guide tables are available in widths of 110, 170, 235, 320 and 400 mm.

Drive

Two different drives can be fitted: ball screws and linear motors.

Cover

The rail guide tables can be supplied in three versions: without cover, with bellows, with steel cover.

Precision classes

Depending on their application, the slides are available in four precision classes: P10, P5, P2, P1.

Customer benefits

- Modular and compact design.
- Variants having high load carrying capacity and stiffness.
- Large number of drives, providing the optimum solution for any application.
- Different covers to suit the environmental conditions.
- Precision class matched with application, thus more cost-efficient.

Guide

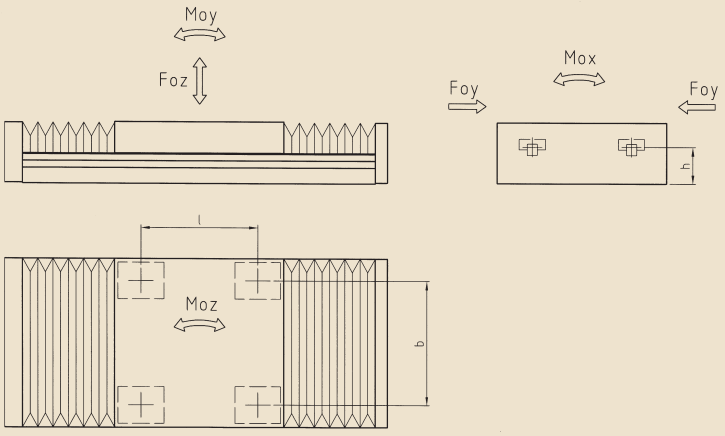
SKF rail guide tables are equipped with a pair of rails fitted with a total of four carriages (with the exception of size 110 with linear motor F 22706 having six carriages).

Customer benefits

- Profile rail with high load carrying capacity and stiffness

See table 1 for further technical details.

Table 1: Load carrying capacity of the tables



Type Size	Precision class	Load rating per carriage		No. of carriages	Distance			Maximum static load per table[1]				
		C	C_0	z	b	l	h[3]	F_{oz}	F_{oy}	M_{ox}	M_{oy}	M_{oz}
–		N		–	mm			N		Nm		
LTB110.L1.SH/TN	P10 - P1	2 295	4 270	4	81	69	23	17 080	8 540	690	580	290
LTB110.L1.F20906	P5 - P1	2 295	4 270	4	81	63	23	16 880	8 440	680	530	260
LTB110.L1.F21806	P5 - P1	2 295	4 270	4	81	130	23	16 680	8 340	670	1 080	540
LTB110.L1.F22706	P5 - P1	2 295	4 270	6	81	220	23	25 020	12 510	1 010	2 750	1 370
LTB170.L1.SH/TN	P10 - P1	7 800	13 500	4	116	92	35	54 000	27 000	3 130	2 480	1 240
LTB170.L1.F21806	P5 - P1	7 800	13 500	4	116	124	35	53 600	26 800	3 100	3 320	1 660
LTB170.L1.F22706	P5 - P1	7 800	13 500	4	116	195	35	53 400	26 700	3 090	5 200	2 600
LTB235.L1.SX/TN/TL	P10 - P1	18 800	24 400	4	156	140	46	97 600	48 800	7 610	6 830	3 410
LTB235.L1.A32008	P5 - P1	18 800	24 400	4	156	142	46	95 800	47 900	7 470	6 800	3 400
LTB235.L1.A33008	P5 - P1	18 800	24 400	4	156	177	46	94 900	47 450	7 400	8 390	4 190
LTB235.L1.A34008	P5 - P1	18 800	24 400	4	156	262	46	94 000	47 000	7 330	12 310	6 150
LTB320.L1.SX/TN/TL	P10 - P1	22 800	30 400	4	220	221	70	121 600	60 800	13 370	13 430	6 710
LTB320.L1.A32014	P5 - P1	22 800	30 400	4	220	160	70	118 000	59 000	12 980	9 440	4 720
LTB320.L1.A33014	P5 - P1	22 800	30 400	4	220	185	70	116 000	58 100	12 780	10 740	5 370
LTB320.L1.A34014	P5 - P1	22 800	30 400	4	220	275	70	114 000	57 200	12 580	15 730	7 860
LTB400.L1.SX/TN/TL	P10 - P1	41 900	54 000	4	270	270	77	216 000	108 000	29 160	29 160	14 580

[1] Loads F_{oz} and F_{oy} for central load application, but not for slides with steel cover.
Moments M_{ox} to M_{oz} for pure moment load (without force), but not for slides with steel cover.
[2] Distance up to the middle of the rail

Drive

Tables with a ball screw:

These tables are equipped with precision rolled thread ballscrew drives.

Screws SH and SX have a nut with internal ball recirculation. They are not preloaded, the axial clearance is 0,1 mm maximum. These screws are the standard for precision class P10 tables. On request also for P5.

Screws TN and TL are fitted with an internal preloaded nut. TL screws have long leads and are therefore suitable for high travel speeds. They can be fitted in tables of precision classes P5 to P1.

Benefits:

- Robust drive.
- Suitable for high axial forces.
- Any drive can be fitted, e.g. manual drive, DC, AC or stepped motor.
- Attachment via motor flange or indirect toothed belt drive.

See table 2 for further technical information.

Table 2: Ball screw technical details

Table		Screw					Load rating[2] Max.		Table drive torque Max.	
Type size	Precision class	Type size	Nominal diameter d_o	Lead p	Lead accuracy[1] acc. to ISO	V_{300p}	dynamic C_a	static C_{oa}	idling M_s	permissible M_a
–			mm			µm/300 mm		N	Nm	
LTB110	P10-P5	SH1205	12	5	G9	87	3 100	5 100	0,17	2,6
	P5-P1	TN1205	12	5	G7	40	6 060	7 100	0,27	2,6
	P5-P1	TN1210	12	10	G7	40	3 730	3 550	0,30	2,6
LTB170	P10-P5	SH1605	16	5	G9	87	5 200	8 700	0,33	5,8
	P5-P1	TN1605	16	5	G7	40	10 710	12 720	0,48	8,4
	P5-P1	TN1610	16	10	G7	40	10 710	12 720	0,52	12,0
	P5-P1	TN1616	16	16	G7	40	6 590	6 360	0,55	12,0
LTB235	P10-P5	SX2505	25	5	G9	87	15 600	31 000	0,49	20,6
	P10-P5	SX2510	25	10	G9	87	18 800	31 000	0,49	32,9
	P5-P1	TN2505	25	5	G7	40	12 700	22 440	0,79	14,9
	P5-P1	TN2510	25	10	G7	40	12 700	22 440	0,89	29,8
	P5-P1	TL2520	25	20	G7	40	12 700	22 440	0,86	32,9
	P5-P1	TL2525	25	25	G7	40	7 820	11 220	0,87	32,9
LTB320	P10-P5	SX3205	32	5	G9	87	17 800	50 400	0,81	33,4
	P10-P5	SX3210	32	10	G9	87	27 500	55 000	0,82	72,9
	P5-P1	TN3205	32	5	G7	40	14 210	30 960	1,21	20,5
	P5-P1	TN3210	32	10	G7	40	23 390	40 960	1,42	54,3
	P5-P1	TL3220	32	20	G7	40	23 390	40 960	1,28	96,0
	P5-P1	TL3232	32	32	G7	40	14 400	20 480	1,35	86,9
	P5-P1	TL3240	32	40	G7	40	14 400	20 480	1,36	96,0
LTB400	P10-P5	SX4005	40	5	G9	87	19 500	63 100	1,01	41,8
	P10-P5	SX4010	40	10	G9	87	29 000	64 000	1,03	84,9
	P5-P1	TN4005	40	5	G7	40	20 350	59 580	1,61	39,3
	P5-P1	TN4010	40	10	G7	40	29 000	64 000	2,43	84,9
	P5-P1	TL4020	40	20	G7	40	29 000	64 000	1,61	169,7
	P5-P1	TL4040	40	40	G7	40	25 500	35 120	1,66	186,3

[1] Lead accuracy G5 at V_{300p} = 23 µm/300 mm available on request.
[2] Value indicated = minimum load rating of either screw or locating bearing

Tables with a linear motor drive:

These are equipped with brushless AC motors and work as follows:

- The secondary part in the lower part of the table takes the form of a magnetic rail.
- The primary part is located in the travelling upper part of the table and takes the form of a coil system.
- Two or three-phase AC synchronous motors with electronic commutation.
- Linear measuring system, integrated in the table as standard.

Customer benefits:

- High dynamics and stiffness in a closed loop system.
- Good synchronous characteristics.
- High acceleration capacity.
- High travel speeds, even with large strokes.
- Friction and wear free drive.

See table 3 for further technical details.

Table 3: Linear motor technical details

For table:		LTB	110	110+170		235			320		
Motorsize			F20906	F21806	F22706	A32008	A33008	A34008	A32014	A33014	A34014
Number of motor phases			2P	2P		3P			3P		
Static maximum force	F_p	N	105	210	315	600	900	1 200	1 200	1 800	2 400
Nominal force	F_n	N	33	66	100	190	285	379	379	596	759
Power loss at F_p	P_{vp}	W	212	424	637	424	643	907	690	1 043	1 381
Power loss at F_n	P_{vn}	W	21	42	64	42		91	69	104	138
Motor constant	k_m	N/W^{-2}	7,2	10,2	12,5	29,1	35,5	39,8	45,7	55,7	64,6
Attractive force between motor parts	F_a	N	200	400	600	1 800	2 700	3 600	3 600	5 400	7 200
Force constant	k_f	N/A_{eff}	19,7	19,7	19,7	74	74	74	148	148	148
Dyn. force at v_{lim}	F_{lim}	N	70	160	250	430	750	1 100	900	1 550	2 200
Linear limiting speed at F_{lim}	v_{lim}	m/s	3,0 [1)]	3,0 [1)]	3,0 [1)]	2,5	2,4	2,3	1,3	1,2	1,1
Maximum current	I_p	A_{eff}	5,3	10,6	16,0	8,1	12,2	16,2	8,1	12,2	16,2
Continuons current	I_n	A_{eff}	1,7	3,4	5,0	2,6	3,8	5,1	2,6	3,8	5,1
DC-link Voltage	U_{zk}	V	80	80	80	300	300	300	300	300	300
Linear measuring system:											
Signal output			Standard: sinus signal, 1 Vss, grading rate 20 µm; Option: TTL-signal resolution 0,1 - 0,2 - 0,5 - 1 µm, after 4-fold interpolation								
Limit-/Ref. switch			2 switches integrated inside the measuring system, PNP/NC or NPN/NC possible								
Precision class			Standard: ±5 µm; option: ±3 µm or ±2 µm								

[1)] limited by linear guiding

Cover

The slides with ball screw and linear motor drive are available as follows:

- **With bellows** made of oil and water resistant polyurethane fibre material on both sides. The carriages and ballscrew nut are additionally protected by wipers (with the exception of the SH screws). The screw thrust bearings are also sealed.

- **Without cover** for applications without exposure to dirt, e.g. in laboratories. The carriages, ballscrew nut and bearings are sealed as they are in the bellows version. The effective stroke is, of course, longer than in the bellows version.

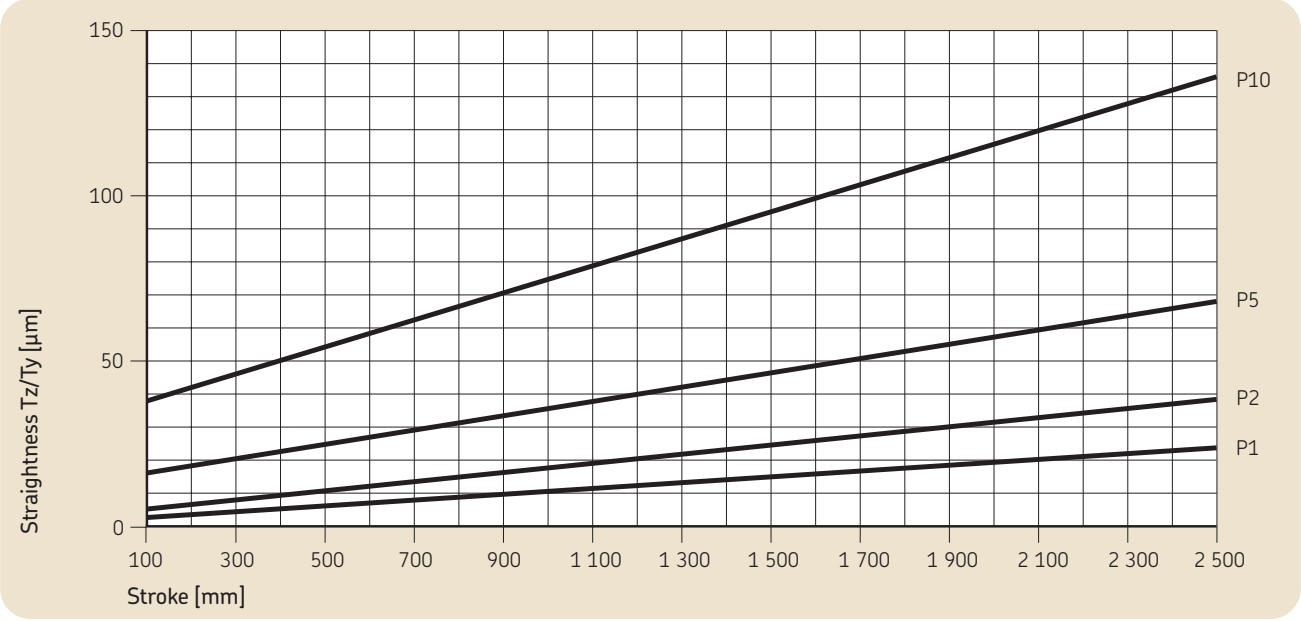
- **With steel cover**, made from corrosion resistant steel sheet, for applications with extreme exposure to dirt from above or for those applications where shock impacts on the cover cannot be excluded. The effective stroke is as long as in the version without cover.

Precision classes

The characteristics of the different precision classes are listed in the table below. The precision given in diagram 1 applies to a single table in clamped condition on an ideal plane clamping surface.

Straightness defined as in VDI 2617 sheet 3.

Diagram 1: Precision



Stroke

The strokes S1 (with bellows), S2 (without bellows) and S (with steel cover) are the maximum travel distances between the end stops. Depending on the speed and the moving mass the operating stroke is correspondingly less. The overrun on both sides must be larger than the length of the brake path of the drive. The value of 2 x p (spindle lead) can be considered to be a reliable guideline value. The adjustment of the electrical stroke is the mechanical stroke less 10 mm from each side. This value can be adjusted individually.

Materials

As standard, the table components are made of aluminium and are black oxidised. The bottom part of the table is made of untreated aluminium. On request the bottom part and the top part are also available in steel.

Permissible operating temperature

Tables with screw drives:
-20 °C to +80 °C constant temperature.
Linear motor slides:
0 °C to + 55 °C constant temperature.

Lubrication

The guides and screw are greased with an all-purpose SKF grease by the manufacturing unit. The carriages and the screw nut can be relubricated. For further information please refer to the operating instructions. On the carriages can be fitted with a central lubricating connection. Five lubricating holes are provided in the side plate. (Not possible by using carriages with steel cover.) Relubrication intervals depending on operating conditions: 20 - 200 km or after 1 year at the latest.

Load carrying capacity and life

For exact dimensioning and design of SKF rail guide tables and drives please contact SKF. In order to provide the required data correctly, please fill in the specification sheet on page 35.

Accessories

Limit and reference switches

Tables with ball screw drives are fitted with inductive limit switches PNP/NC as standard and can be equipped with inductive reference switches on request. These are integral with the slide. They are connected via a central plug connection on one of the end plates (see dimension specifications). Slides with linear motor drive are fitted with 2 limit/reference switches PNP/NC or NPN/NC, which are integrated in the linear measuring system.

Cross table assembly

Individual tables can be mounted to form a cross table. The standard drill hole patterns of the table top and bottom parts are matched so that mounting of the same or next smaller size is possible. Please note the details in the corresponding column of the dimensional specifications.

Linear measuring system

The attachment of a direct linear measurement system is possible. The slides with linear motor drive are equipped with a linear measuring system as standard. It is integral with the table. Further information can be found in table 3 on page 7.

Motor flange

The slides with ball screw drives can be equipped with a motor flange and coupling on request. When ordering please indicate the motor manufacturer, model and type.

Indirect toothed belt drive

If space is restricted, an indirect drive using a toothed belt may be the best choice. The motor can be mounted on either the right or left hand side. Standard transmission ratio 1:1.

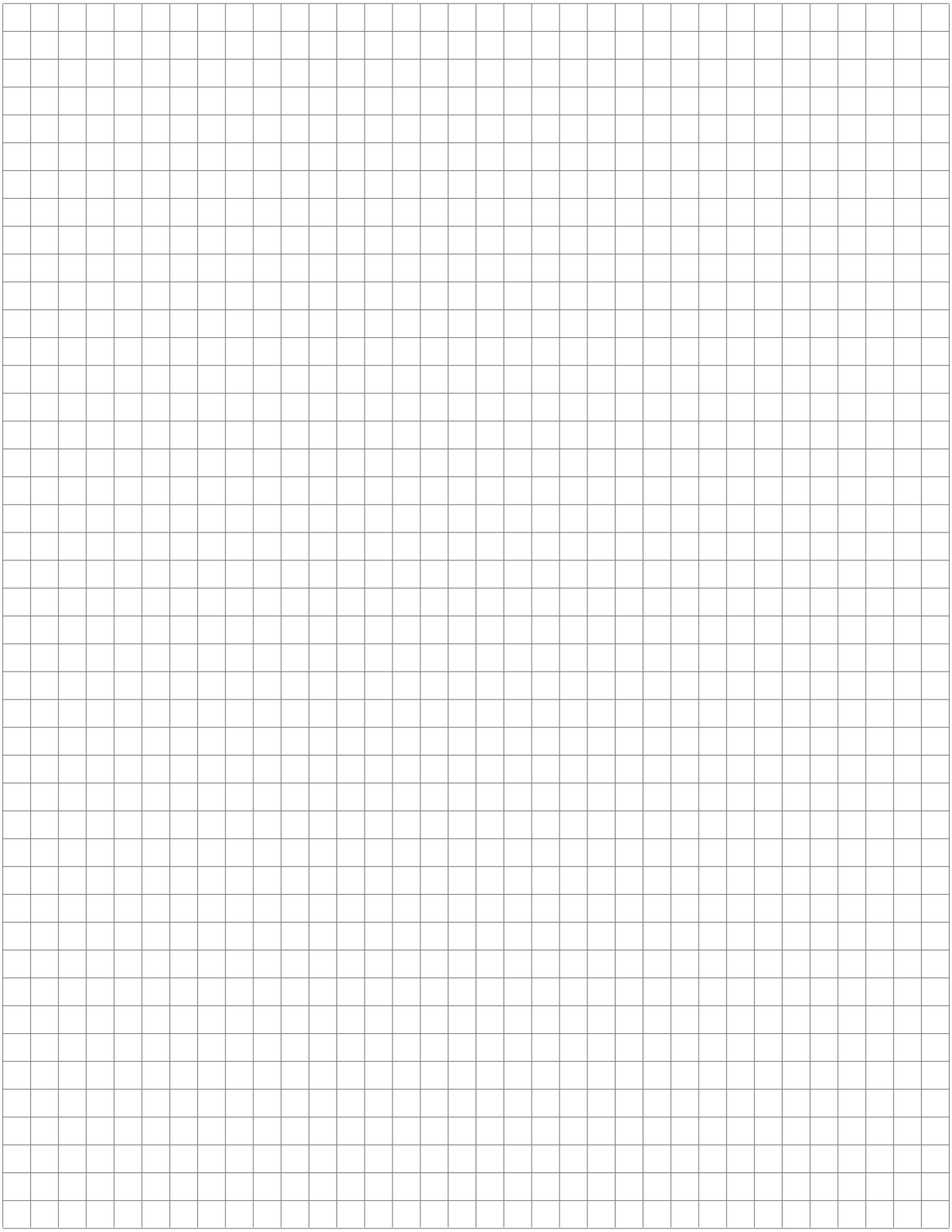
Linear motor control units and control components

The following components are available for controlling the linear motors:

- Dividing electronics for measuring system, integrated in the table
- Servo module
- Point-to-point or continuous path control

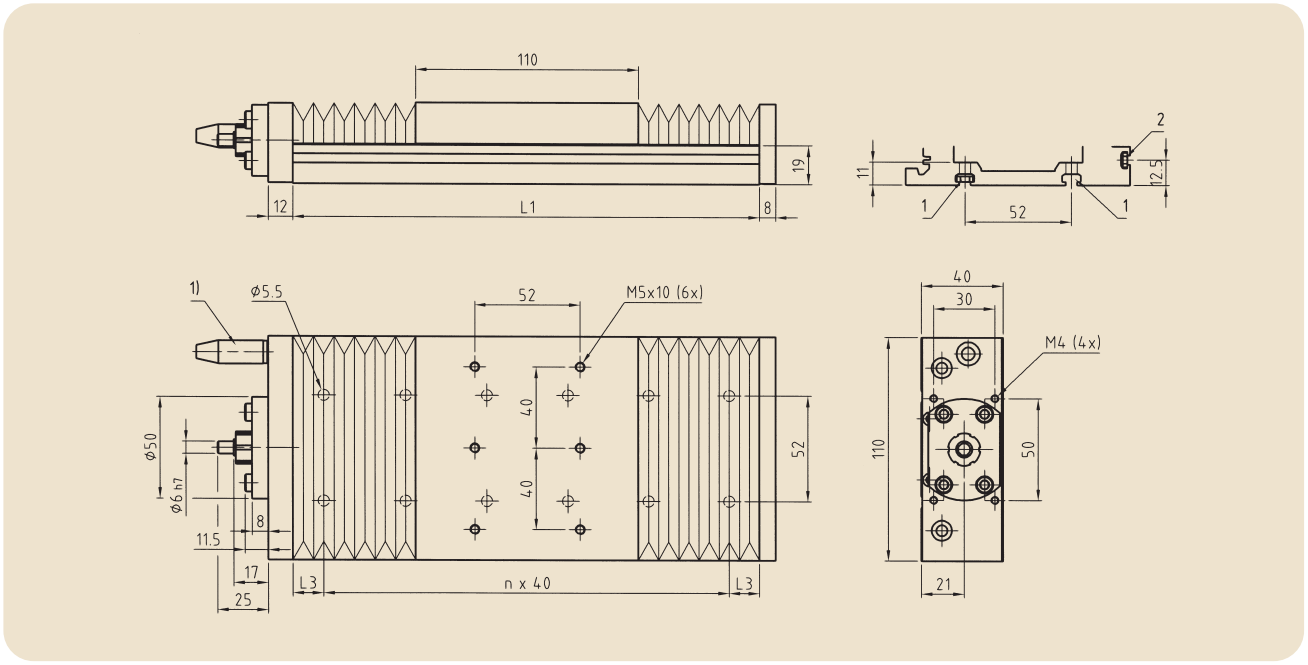
Further information available on request or in the offer as submitted.

Notes



Rail guide tables with ball screw drive with or without bellows

T slots in bottom part:
Slot 1: for square nut DIN 562 M5
Slot 2: for square nut DIN 562 M4



[1] Plug connection for limit and reference switches (optional)

Direction of travel - <---> +

Length				Stroke[3]		Screw data SH1205	Screw data TN1205+1210	Weight[4]	
L1	L3	n	[2] KN	S1	S2	n_{max}	n_{max}	G_A	G_0
mm		–		mm		1/min		kg	
150	15	3	-	10	30	4 160	7 500	1,7	0,8
190	15	4	✓	35	70	4 160	7 500	1,6	0,8
230	15	5	-	60	110	4 160	7 500	1,8	0,8
270	15	6	✓	80	150	4 160	7 500	2,0	0,8
310	15	7	-	105	190	4 160	7 500	2,2	0,8
350	15	8	✓	130	230	4 160	7 500	2,4	0,8
390	15	9	-	155	270	4 160	7 500	2,6	0,8
430	15	10	✓	180	310	4 160	7 500	2,7	0,8
470	15	11	-	205	350	4 160	7 500	2,9	0,8
510	15	12	✓	225	390	4 160	7 500	3,1	0,8
550	15	13	-	250	430	4 160	6 370	3,3	0,8
590	15	14	✓	275	470	4 160	5 420	3,5	0,8
630	15	15	-	300	510	4 160	4 670	3,6	0,8
670	15	16	✓	325	550	3 900	4 060	3,8	0,8
710	15	17	-	350	590	3 420	3 570	4,0	0,8
750	15	18	✓	375	630	3 030	3 160	4,2	0,8
790	15	19	-	395	670	2 700	2 810	4,4	0,8
830	15	20	✓	420	710	2 420	2 520	4,5	0,8
870	15	21	-	445	750	2 180	2 280	4,7	0,8
910	15	22	✓	470	790	1 980	2 060	4,9	0,8
950	15	23	-	495	830	1 800	1 880	5,1	0,8

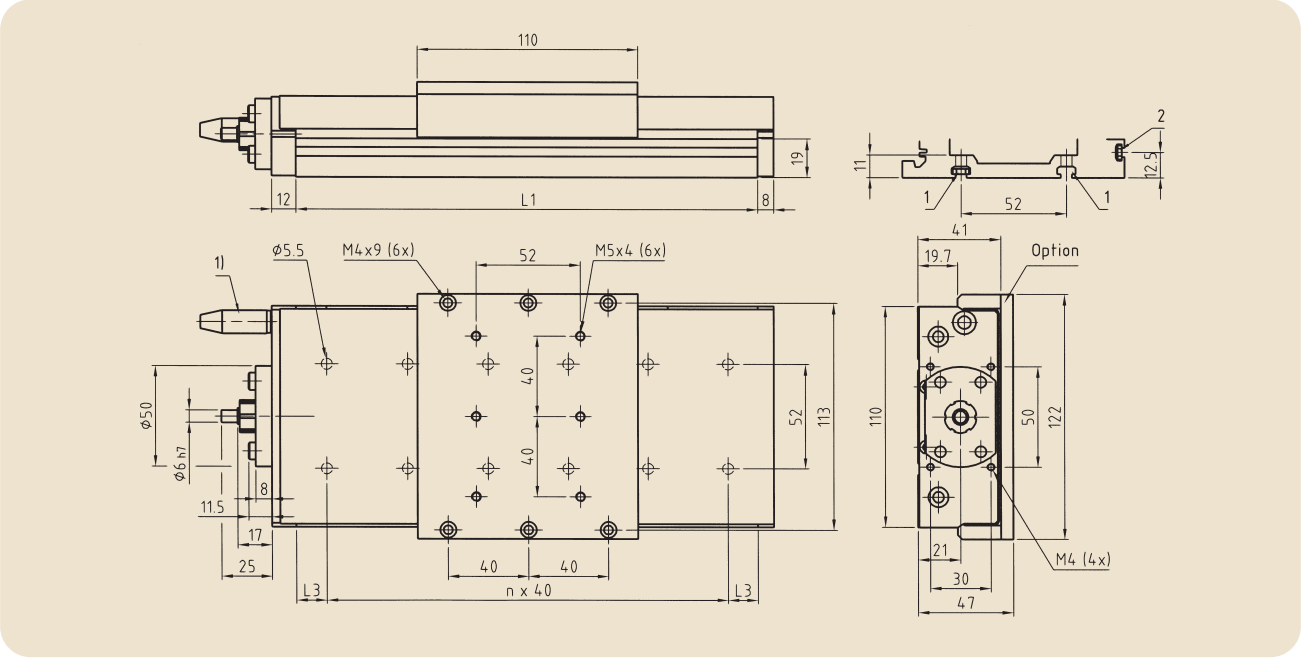
[2] Suitable as top axis for central cross table mounting

[3] Maximum mechanical stroke between end stops:
S1 with bellows (standard version)
S2 without bellows (special version)

[4] G_A = Total mass of table
G_0 = Mobile mass of table top

Rail guide tables with ball screw drive with steel cover

T slots in bottom part:
Slot 1: for square nut DIN 562 M5
Slot 2: for square nut DIN 562 M4



[1] Plug connection for limit and reference switches (optional)

Direction of travel - <---> +

Lenght			[2]	Stroke[3]	Screw data SH1205	TN1205+1210	Weight[4]	
L1	L3	n	KN	S	n_{max}	n_{max}	G_A	G_0
mm		–		mm	1/min		kg	
150	15	3	-	30	4 160	7 500	2,0	0,9
190	15	4	✓	70	4 160	7 500	2,2	0,9
230	15	5	-	110	4 160	7 500	2,4	0,9
270	15	6	✓	150	4 160	7 500	2,6	0,9
310	15	7	-	190	4 160	7 500	2,8	0,9
350	15	8	✓	230	4 160	7 500	3,0	0,9
390	15	9	-	270	4 160	7 500	3,2	0,9
430	15	10	✓	310	4 160	7 500	3,4	0,9
470	15	11	-	350	4 160	7 500	3,6	0,9
510	15	12	✓	390	4 160	7 500	3,8	0,9
550	15	13	-	430	4 160	6 370	4,0	0,9
590	15	14	✓	470	4 160	5 420	4,2	0,9
630	15	15	-	510	4 160	4 670	4,4	0,9
670	15	16	✓	550	3 900	4 060	4,6	0,9
710	15	17	-	590	3 420	3 570	4,8	0,9
750	15	18	✓	630	3 030	3 160	5,0	0,9
790	15	19	-	670	2 700	2 810	5,2	0,9
830	15	20	✓	710	2 420	2 520	5,4	0,9
870	15	21	-	750	2 180	2 280	5,6	0,9
910	15	22	✓	790	1 980	2 060	5,8	0,9
950	15	23	-	830	1 800	1 880	6,0	0,9

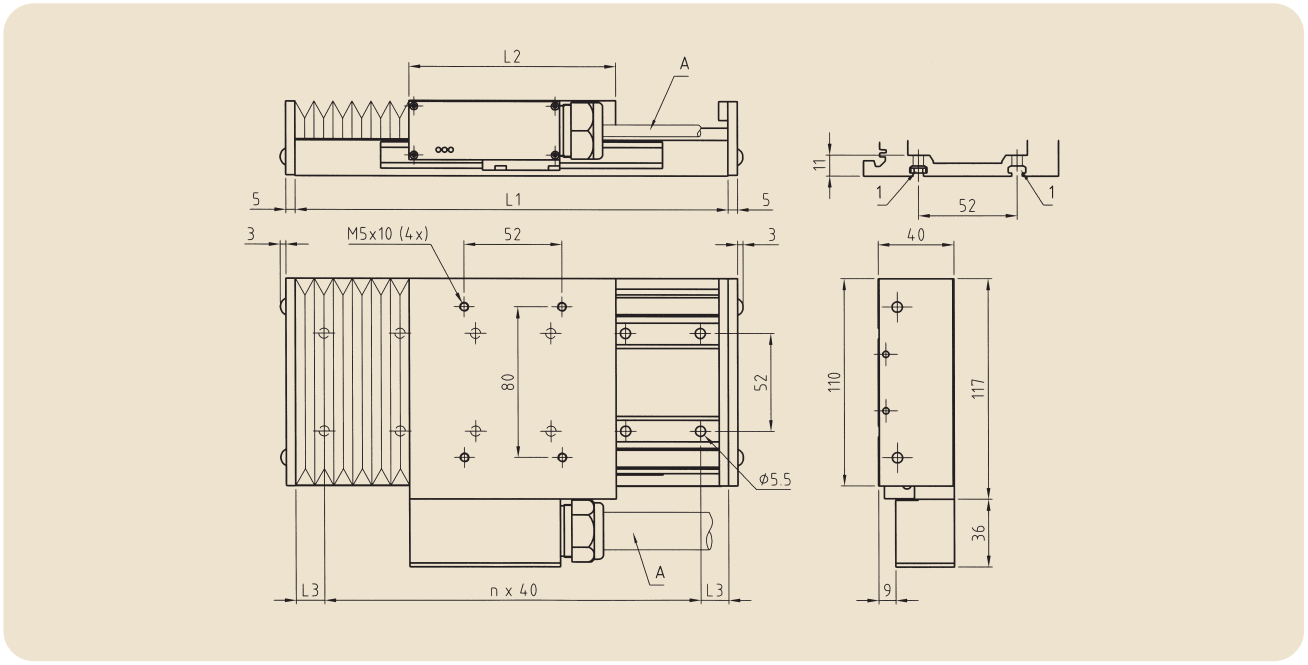
[2] Suitable as top axis for central cross table mounting

[3] Maximum mechanical stroke between end stops

[4] G_A = Total mass of table
G_0 = Mobile mass of table top

Rail guide tables with linear motor drive with or without bellows

T slots in bottom part:
Slot 1: for square nut DIN 562 M5



A cable output for motor and measuring system. Flat ribbon cable 20 x 6.3 mm

Direction of travel: - <---> +

Length					F20906				F21806				F22706			
			[2]	[4]		Stroke[3]		[5]		Stroke[3]		[5]		Stroke[3]		[5]
L1	L3	n	KN	G_U	L2	S1	S2	G_0	L2	S1	S2	G_0	L2	S1	S2	G_0
mm		–		kg	mm			kg	mm			kg	mm			kg
150	15	3	-	1,3	**110**	10	30	0,9	**190**	-	-	1,5	**280**	-	-	2,1
190	15	4	✓	1,5	**110**	35	70	0,9	**190**	-	-	1,5	**280**	-	-	2,1
230	15	5	-	2,0	**110**	60	110	0,9	**190**	10	30	1,5	**280**	-	-	2,1
270	15	6	✓	2,2	**110**	85	150	0,9	**190**	35	70	1,5	**280**	-	-	2,1
310	15	7	-	2,5	**110**	105	190	0,9	**190**	60	110	1,5	**280**	-	-	2,1
350	15	8	✓	2,9	**110**	130	230	0,9	**190**	80	150	1,5	**280**	30	60	2,1
390	15	9	-	3,2	**110**	155	270	0,9	**190**	105	190	1,5	**280**	55	100	2,1
430	15	10	✓	3,5	**110**	180	310	0,9	**190**	130	230	1,5	**280**	75	140	2,1
470	15	11	-	3,9	**110**	205	350	0,9	**190**	155	270	1,5	**280**	100	180	2,1
510	15	12	✓	4,1	**110**	225	390	0,9	**190**	180	310	1,5	**280**	125	220	2,1
550	15	13	-	4,4	**110**	250	430	0,9	**190**	205	350	1,5	**280**	150	260	2,1
590	15	14	✓	4,8	**110**	275	470	0,9	**190**	225	390	1,5	**280**	175	300	2,1
630	15	15	-	5,1	**110**	300	510	0,9	**190**	250	430	1,5	**280**	200	340	2,1
670	15	16	✓	5,4	**110**	325	550	0,9	**190**	275	470	1,5	**280**	225	380	2,1
710	15	17	-	5,8	**110**	350	590	0,9	**190**	300	510	1,5	**280**	245	420	2,1
750	15	18	✓	6,0	**110**	375	630	0,9	**190**	325	550	1,5	**280**	270	460	2,1
790	15	19	-	6,3	**110**	395	670	0,9	**190**	350	590	1,5	**280**	295	500	2,1
830	15	20	✓	6,7	**110**	420	710	0,9	**190**	375	630	1,5	**280**	320	540	2,1
870	15	21	-	7,0	**110**	445	750	0,9	**190**	395	670	1,5	**280**	345	580	2,1
910	15	22	✓	7,3	**110**	470	790	0,9	**190**	420	710	1,5	**280**	370	620	2,1
950	15	23	-	7,7	**110**	495	830	0,9	**190**	445	750	1,5	**280**	390	660	2,1

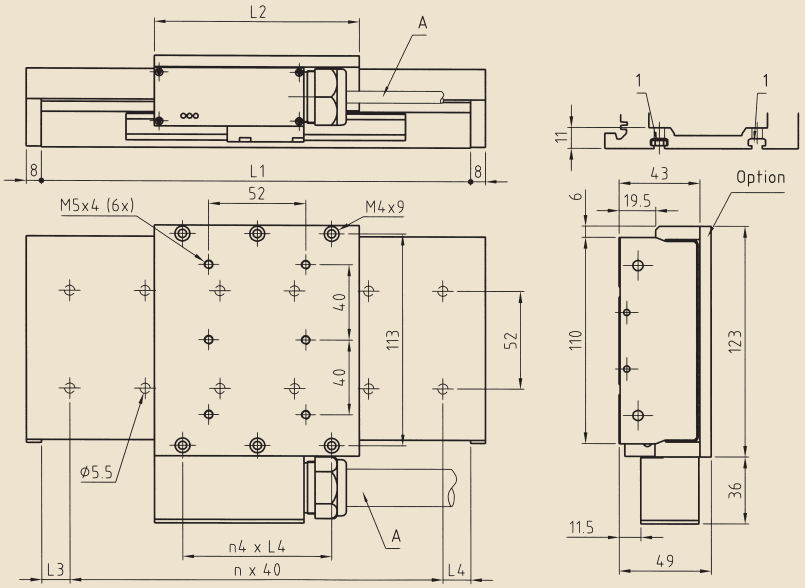
[2] Suitable as top axis for central cross table mounting

[3] Maximum mechanical stroke between end stops:
S1 with bellows (standard version)
S2 without bellows (special version)

[4] G_U = Stationary mass of bottom part
G_0 = Mobile mass of table top

Rail guide tables with linear motor drive with steel cover

T slots in bottom part:
Slot 1: for square nut DIN 562 M5



A cable output for motor and measuring system. Flat ribbon cable 20 x 6.3 mm

Direction of travel: - <---> +

Length					F20906				F21806				F22706			
			[2]	[4]		Stroke[3]		[5]		Stroke[3]			[5]	Stroke[3]		
L1	L3	n	KN	G_U	L2	S	n_{4xL4}	G_0	L2	S	n_{4xL4}	G_0	L2	S	n_{4xL4}	G_0
mm		–		kg	mm			kg	mm			kg	mm			kg
150	15	3	-	1,3	**110**	30	2x40	1,2	**190**	-	4x40	2,0	**280**	-	6x40	2,8
190	15	4	✓	1,6	**110**	70	2x40	1,2	**190**	-	4x40	2,0	**280**	-	6x40	2,8
230	15	5	-	2,1	**110**	110	2x40	1,2	**190**	30	4x40	2,0	**280**	-	6x40	2,8
270	15	6	✓	2,3	**110**	150	2x40	1,2	**190**	70	4x40	2,0	**280**	-	6x40	2,8
310	15	7	-	2,6	**110**	190	2x40	1,2	**190**	110	4x40	2,0	**280**	-	6x40	2,8
350	15	8	✓	3,1	**110**	230	2x40	1,2	**190**	150	4x40	2,0	**280**	60	6x40	2,8
390	15	9	-	3,4	**110**	270	2x40	1,2	**190**	190	4x40	2,0	**280**	100	6x40	2,8
430	15	10	✓	3,7	**110**	310	2x40	1,2	**190**	230	4x40	2,0	**280**	140	6x40	2,8
470	15	11	-	4,1	**110**	350	2x40	1,2	**190**	270	4x40	2,0	**280**	180	6x40	2,8
510	15	12	✓	4,4	**110**	390	2x40	1,2	**190**	310	4x40	2,0	**280**	220	6x40	2,8
550	15	13	-	4,7	**110**	430	2x40	1,2	**190**	350	4x40	2,0	**280**	260	6x40	2,8
590	15	14	✓	5,1	**110**	470	2x40	1,2	**190**	390	4x40	2,0	**280**	300	6x40	2,8
630	15	15	-	5,4	**110**	510	2x40	1,2	**190**	430	4x40	2,0	**280**	340	6x40	2,8
670	15	16	✓	5,7	**110**	550	2x40	1,2	**190**	470	4x40	2,0	**280**	380	6x40	2,8
710	15	17	-	6,1	**110**	590	2x40	1,2	**190**	510	4x40	2,0	**280**	420	6x40	2,8
750	15	18	✓	6,4	**110**	630	2x40	1,2	**190**	550	4x40	2,0	**280**	460	6x40	2,8
790	15	19	-	6,7	**110**	670	2x40	1,2	**190**	590	4x40	2,0	**280**	500	6x40	2,8
830	15	20	✓	7,1	**110**	710	2x40	1,2	**190**	630	4x40	2,0	**280**	540	6x40	2,8
870	15	21	-	7,4	**110**	750	2x40	1,2	**190**	670	4x40	2,0	**280**	580	6x40	2,8
910	15	22	✓	7,7	**110**	790	2x40	1,2	**190**	710	4x40	2,0	**280**	620	6x40	2,8
950	15	23	-	8,2	**110**	830	2x40	1,2	**190**	750	4x40	2,0	**280**	660	6x40	2,8

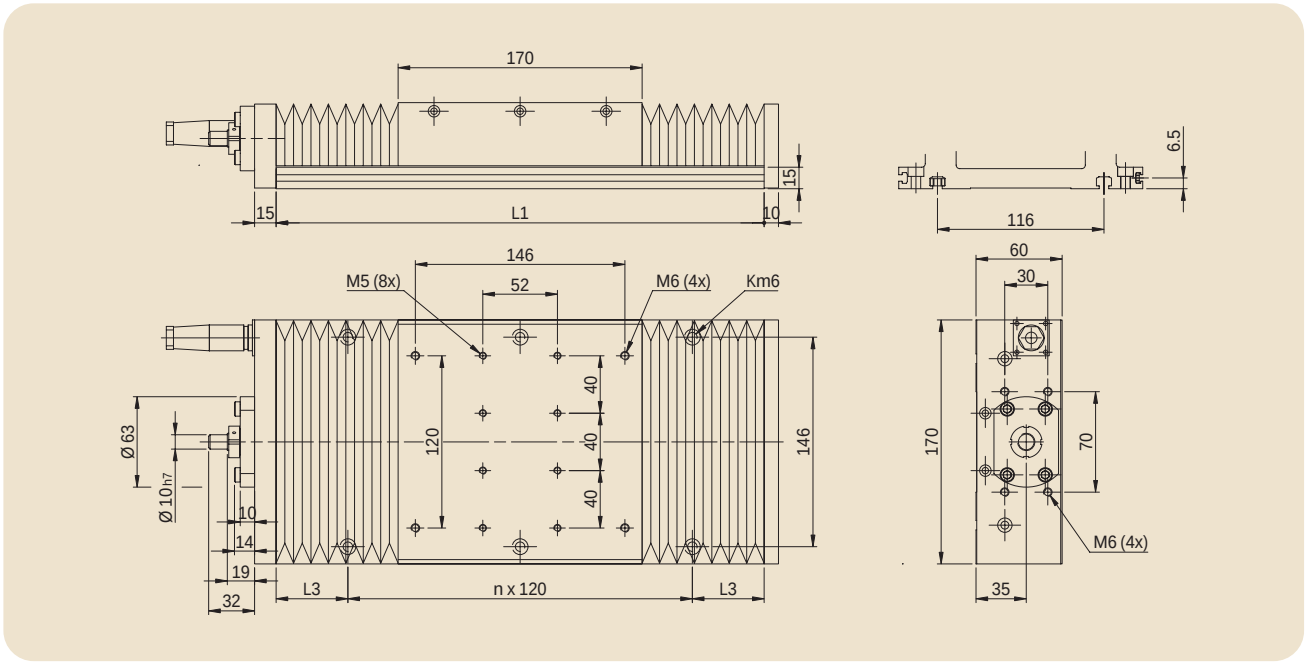
[2] Suitable as top axis for central cross table mounting

[3] Maximum mechanical stroke between end stops

[4] G_U = Stationary mass of bottom part
G_0 = Mobile mass of table top

Rail guide tables with ball screw drive with or without bellows

T slots in bottom part:
Slot 1: for square nut DIN 562 M6
Slot 2: for square nut DIN 562 M4



[1] Plug connection for limit and reference switches (optional)

Direction of travel: - <---> +

Length				Stroke[3]		Screw data SH1605	TN1605	TN1610	TN1616	Weight[4]	
L1	L3	n	[2] KN	S1	S2	n_{max}	n_{max}	n_{max}	n_{max}	G_A	G_0
mm		–		mm		1/min				kg	
220	50	1	✓	25	40	3 120	5 620	5 620	5620	5,7	2,3
280	20	2	-	70	100	3 120	5 620	5 620	5 620	6,4	2,3
340	50	2	-	115	160	3 120	5 620	5 620	5 620	7,1	2,3
400	20	3	✓	160	220	3 120	5 620	5 620	5 620	7,8	2,3
460	50	3	✓	205	280	3 120	5 620	5 620	5 620	8,5	2,3
520	20	4	-	250	340	3 120	5 620	5 620	5 620	9,2	2,3
580	50	4	-	295	400	3 120	5 620	5 620	5 620	9,9	2,3
640	20	5	✓	345	460	3 120	5 620	5 620	5 620	10,6	2,3
700	50	5	✓	390	520	3 120	5 620	5 620	5 620	11,3	2,3
760	20	6	-	435	580	3 120	4 670	4 670	4 670	12,0	2,3
820	50	6	-	485	640	3 120	3 900	3 900	3 900	12,7	2,3
880	20	7	✓	525	700	3 120	3 300	3 300	3 300	13,4	2,3
940	50	7	✓	570	760	2 830	2 830	2 830	2 830	14,1	2,3
1 000	20	8	-	615	820	2 460	2 460	2 460	2 460	14,8	2,3
1 060	50	8	-	665	880	2 150	2 150	2 150	2 150	15,6	2,3
1 120	20	9	✓	710	940	1 900	1 900	1 900	1 900	16,3	2,3
1 180	50	9	✓	755	1 000	1 690	1 690	1 690	1 690	17,0	2,3
1 240	20	10	-	805	1 060	1 510	1 510	1 510	1 510	17,7	2,3
1 300	50	10	-	845	1 120	1 360	1 360	1 360	1 360	18,4	2,3
1 360	20	11	✓	890	1 180	1 230	1 230	1 230	1 230	19,1	2,3
1 420	50	11	✓	935	1 240	1 120	1 120	1 120	1 120	19,8	2,3
1 480	20	12	-	985	1 300	1 020	1 020	1 020	1 020	20,5	2,3
1 540	50	12	-	1 030	1 360	930	930	930	930	21,2	2,3
1 600	20	13	✓	1 075	1 420	860	860	860	860	21,9	2,3

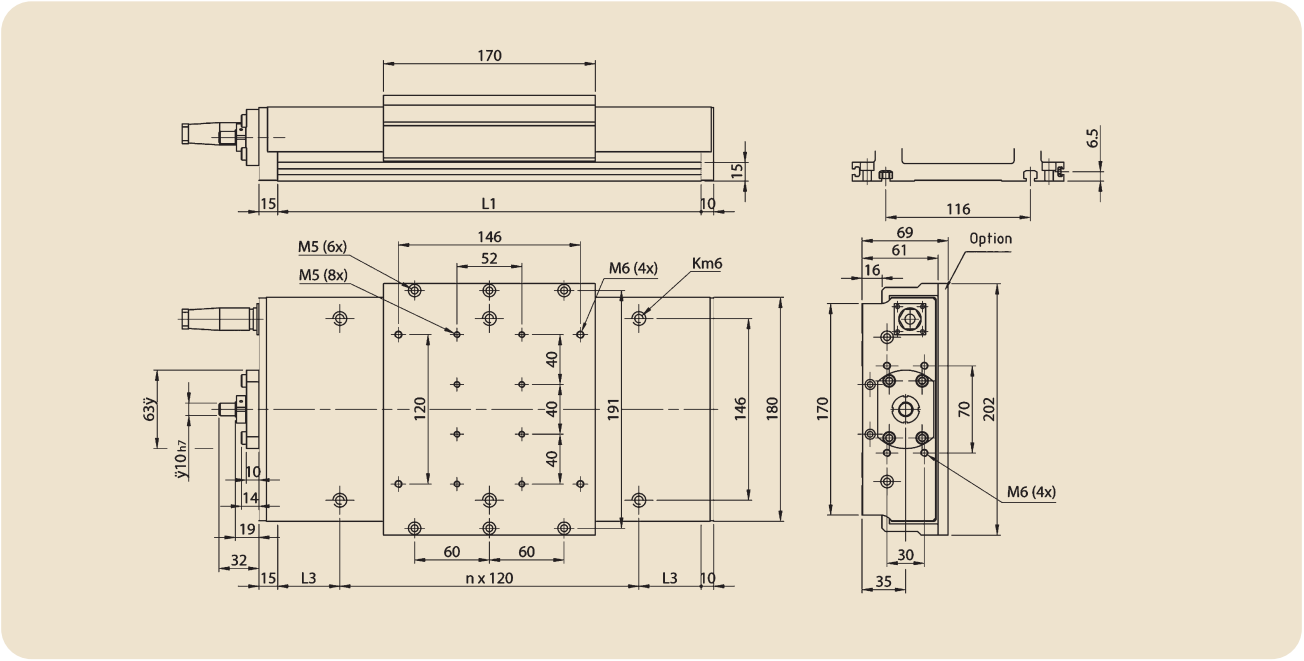
[2] Suitable as top axis for central cross table mounting

[3] Maximum mechanical stroke between end stops:
S1 with bellows (standard version)
S2 without bellows (special version)

[4] G_A = Total weight of table
G_0 = Weight of mobile mass of table top

Rail guide tables with ball screw drive with steel cover

T slots in bottom part:
Slot 1: for square nut DIN 562 M6
Slot 2: for square nut DIN 562 M4



[1] Plug connection for limit and reference switches (optional)

Direction of travel: - <---> +

Length					Screw data					
			[2]	Stroke[3]	SH1605	TN1605	TN1610	TN1616	Weight[4]	
L1	L3	n	KN	S	n_{max}	n_{max}	n_{max}	n_{max}	G_A	G_0
mm		–		mm	1/min				kg	
220	50	1	✓	40	3 120	5620	5 620	5 620	6,9	3,3
280	20	2	-	100	3 120	5 620	5 620	5 620	7,7	3,3
340	50	2	-	160	3 120	5 620	5 620	5 620	8,4	3,3
400	20	3	✓	220	3 120	5 620	5 620	5 620	9,2	3,3
460	50	3	✓	280	3 120	5 620	5 620	5 620	9,9	3,3
520	20	4	-	340	3 120	5 620	5 620	5 620	10,7	3,3
580	50	4	-	400	3 120	5 620	5 620	5 620	11,5	3,3
640	20	5	✓	460	3 120	5 620	5 620	5 620	12,2	3,3
700	50	5	✓	520	3 120	5 620	5 620	5 620	13,0	3,3
760	20	6	-	580	3 120	4 670	4 670	4 670	13,8	3,3
820	50	6	-	640	3 120	3 900	3 900	3 900	14,5	3,3
880	20	7	✓	700	3 120	3 300	3 300	3 300	15,3	3,3
940	50	7	✓	760	2 830	2 830	2 830	2 830	16,0	3,3
1 000	20	8	-	820	2 460	2 460	2 460	2 460	16,8	3,3
1 060	50	8	-	880	2 150	2 150	2 150	2 150	17,6	3,3
1 120	20	9	✓	940	1 900	1 900	1 900	1 900	18,3	3,3
1 180	50	9	✓	1 000	1 690	1 690	1 690	1 690	19,1	3,3
1 240	20	10	-	1 060	1 510	1 510	1 510	1 510	19,9	3,3
1 300	50	10	-	1 120	1 360	1 360	1 360	1 360	20,6	3,3
1 360	20	11	✓	1 180	1 230	1 230	1 230	1 230	21,4	3,3
1 420	50	11	✓	1 240	1 120	1 120	1 120	1 120	22,1	3,3
1 480	20	12	-	1 300	1 020	1 020	1 020	1 020	22,9	3,3
1 540	50	12	-	1 360	930	930	930	930	23,7	3,3
1 600	20	13	✓	1 420	860	860	860	860	24,4	3,3

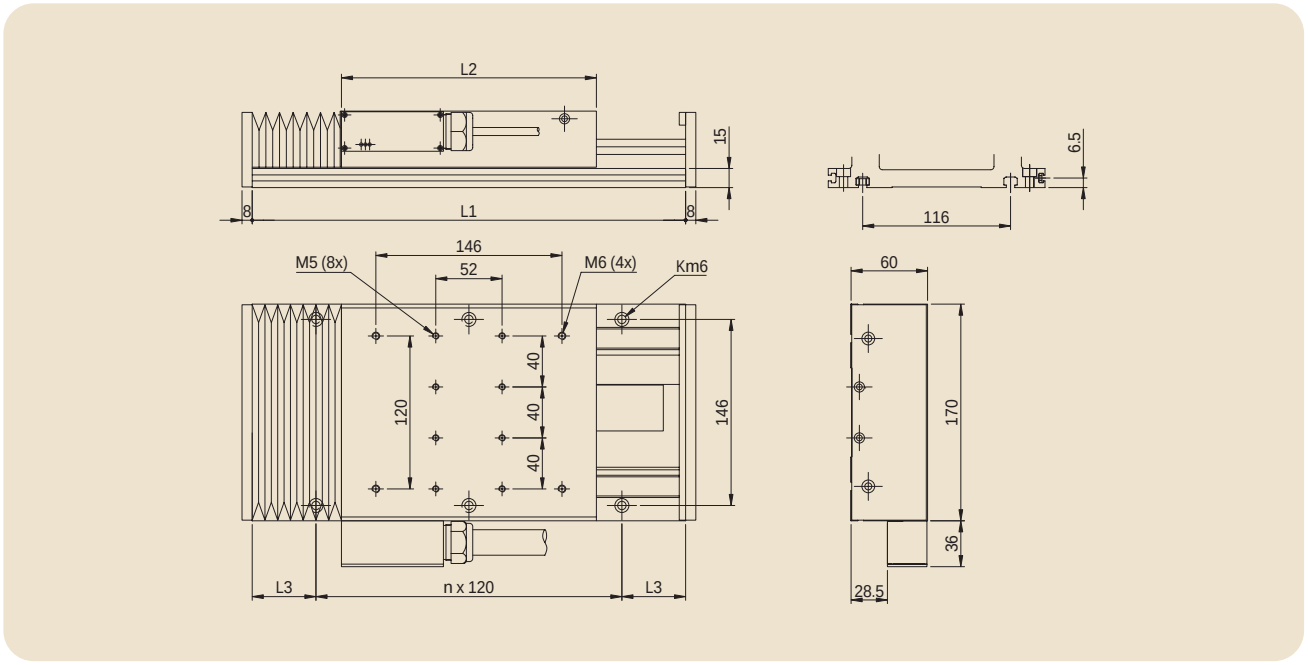
[2] Suitable as top axis for central cross table mounting

[3] Maximum mechanical stroke between end stops

[4] G_A = Stationary mass of bottom part
G_0 = Mobile mass of table top

Rail guide tables with linear motor drive with or without bellows

T slots in bottom part:
Slot 1: for square nut DIN 562 M6
Slot 2: for square nut DIN 562 M4



A cable output for motor and measuring system. Flat ribbon cable 20 x 6.3 mm

Direction of travel: - <---> +

Length					F21806				F22706			
			2)	4)		Stroke 3)		5)		Stroke 3)		5)
L1	L3	n	KN	G_U	L2	S1	S2	G_0	L2	S1	S2	G_0
mm		–		kg	mm			kg	mm			kg
280	20	2	-	4,5	**200**	45	70	3,0	**280**	-	-	3,9
340	50	2	-	5,3	**200**	95	130	3,0	**280**	30	50	3,9
400	20	3	✓	6,2	**200**	140	190	3,0	**280**	80	110	3,9
460	50	3	✓	7,1	**200**	180	250	3,0	**280**	125	170	3,9
520	20	4	-	8,0	**200**	230	310	3,0	**280**	165	230	3,9
580	50	4	-	8,9	**200**	275	370	3,0	**280**	210	290	3,9
640	20	5	✓	9,8	**200**	320	430	3,0	**280**	260	350	3,9
700	50	5	✓	10,7	**200**	365	490	3,0	**280**	305	410	3,9
760	20	6	-	11,5	**200**	415	550	3,0	**280**	350	470	3,9
820	50	6	-	12,4	**200**	460	610	3,0	**280**	400	530	3,9
880	20	7	✓	13,3	**200**	500	670	3,0	**280**	445	590	3,9
940	50	7	✓	14,2	**200**	550	730	3,0	**280**	485	650	3,9
1 000	20	8	-	15,1	**200**	595	790	3,0	**280**	530	710	3,9
1 060	50	8	-	16,0	**200**	640	850	3,0	**280**	580	770	3,9
1 120	20	9	✓	16,9	**200**	685	910	3,0	**280**	625	830	3,9
1 180	50	9	✓	17,7	**200**	735	970	3,0	**280**	670	890	3,9
1 240	20	10	-	18,6	**200**	780	1 030	3,0	**280**	720	950	3,9
1 300	50	10	-	19,5	**200**	820	1 090	3,0	**280**	765	1 010	3,9
1 360	20	11	✓	20,4	**200**	870	1 150	3,0	**280**	810	1 070	3,9
1 420	50	11	✓	21,3	**200**	915	1 210	3,0	**280**	850	1 130	3,9
1 480	20	12	-	22,2	**200**	960	1 270	3,0	**280**	900	1 190	3,9
1 540	50	12	-	23,1	**200**	1 005	1 330	3,0	**280**	945	1 250	3,9
1 600	20	13	✓	23,9	**200**	1 055	1 390	3,0	**280**	990	1 310	3,9

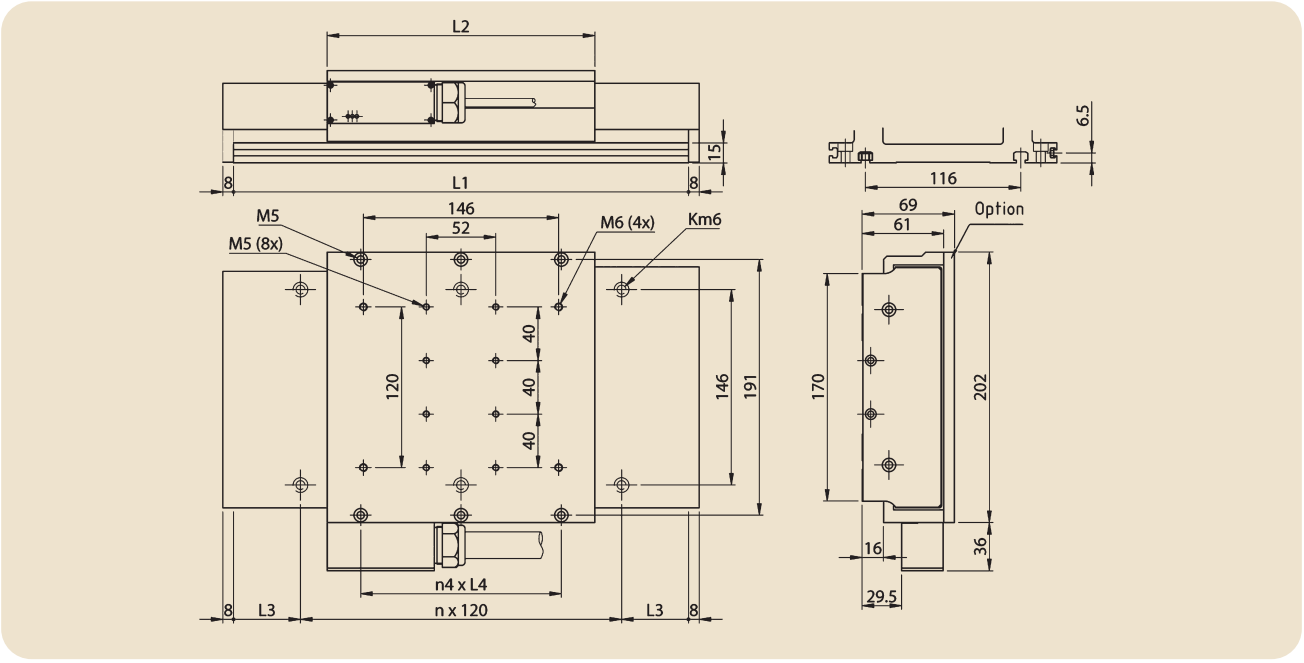
[2] Suitable as top axis for central cross table mounting

[3] Maximum mechanical stroke between end stops:
S1 with bellows (standard version)
S2 without bellows (special version)

[4] G_U = Stationary mass of bottom part
[5] G_0 = Mobile mass of table top

Rail guide tables with linear motor drive with steel cover

T slots in bottom part:
Slot 1: for square nut DIN 562 M6
Slot 2: for square nut DIN 562 M4



A cable output for motor and measuring system. Flat ribbon cable 20 x 6.3 mm

Direction of travel: - <---> +

Length					F21806				F22706			
			[2]	[4]		Stroke[3]		[5]		Stroke[3]		[5]
L1	L3	n	KN	G_U	L2	S	n_{4xL4}	G_O	L2	S	n_{4xL4}	G_O
mm		–		kg	mm			kg	mm			kg
280	20	2	-	4,5	**200**	70	2x75	4,2	**280**	-	3x75	5,6
340	50	2	-	5,4	**200**	130	2x75	4,2	**280**	50	3x75	5,6
400	20	3	✓	6,3	**200**	190	2x75	4,2	**280**	110	3x75	5,6
460	50	3	✓	7,2	**200**	250	2x75	4,2	**280**	170	3x75	5,6
520	20	4	-	8,1	**200**	310	2x75	4,2	**280**	230	3x75	5,6
580	50	4	-	9,0	**200**	370	2x75	4,2	**280**	290	3x75	5,6
640	20	5	✓	9,8	**200**	430	2x75	4,2	**280**	350	3x75	5,6
700	50	5	✓	10,7	**200**	490	2x75	4,2	**280**	410	3x75	5,6
760	20	6	-	11,6	**200**	550	2x75	4,2	**280**	470	3x75	5,6
820	50	6	-	12,5	**200**	610	2x75	4,2	**280**	530	3x75	5,6
880	20	7	✓	13,4	**200**	670	2x75	4,2	**280**	590	3x75	5,6
940	50	7	✓	14,3	**200**	730	2x75	4,2	**280**	650	3x75	5,6
1 000	20	8	-	15,2	**200**	790	2x75	4,2	**280**	710	3x75	5,6
1 060	50	8	-	16,1	**200**	850	2x75	4,2	**280**	770	3x75	5,6
1 120	20	9	✓	17,0	**200**	910	2x75	4,2	**280**	830	3x75	5,6
1 180	50	9	✓	17,9	**200**	970	2x75	4,2	**280**	890	3x75	5,6
1 240	20	10	-	18,8	**200**	1 030	2x75	4,2	**280**	950	3x75	5,6
1 300	50	10	-	19,7	**200**	1 090	2x75	4,2	**280**	1 010	3x75	5,6
1 360	20	11	✓	20,5	**200**	1 150	2x75	4,2	**280**	1 070	3x75	5,6
1 420	50	11	✓	21,4	**200**	1 210	2x75	4,2	**280**	1 130	3x75	5,6
1 480	20	12	-	22,3	**200**	1 270	2x75	4,2	**280**	1 190	3x75	5,6
1 540	50	12	-	23,2	**200**	1 330	2x75	4,2	**280**	1 250	3x75	5,6
1 600	20	13	✓	24,1	**200**	1 390	2x75	4,2	**280**	1 310	3x75	5,6

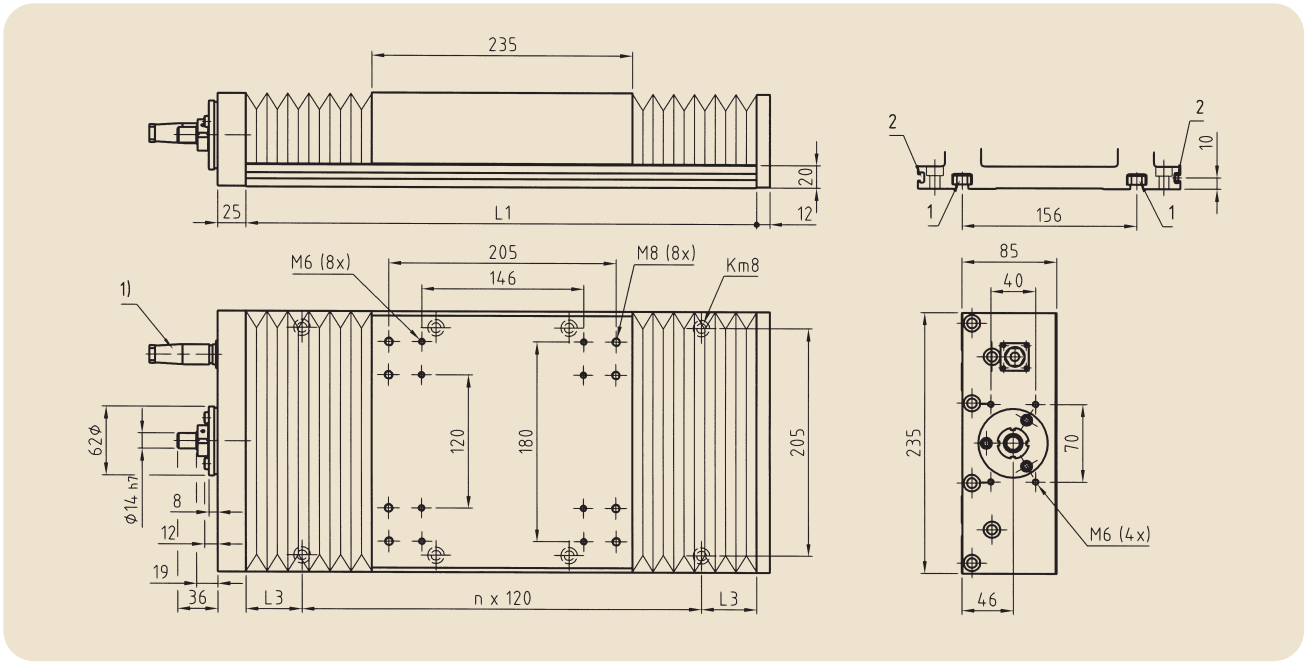
[2] Suitable as top axis for central cross table mounting

[3] Maximum mechanical stroke between end stops

[4] G_U = Stationary mass of bottom part
[5] G_O = Mobile mass of table top

Rail guide tables with ball screw drive with or without bellows

T slots in bottom part:
Slot 1: for square nut DIN 562 M10
Slot 2: for square nut DIN 562 M5



[1] Plug connection for limit and reference switches (optional)

Direction of travel: - <---> +

Length				Stroke[3]		Screw data					
			[2]			SX2505	TN2505	SX2510	TN2510+2520+2525	Weight[4]	
L1	L3	n	KN	S1	S2	n_{max}	n_{max}	n_{max}	n_{max}	G_A	G_0
mm		–		mm		1/min				kg	
280	20	2	-	25	35	2 000	3 600	2 000	3 600	14,5	5,9
340	50	2	-	75	95	2 000	3 600	2 000	3 600	15,9	5,9
400	20	3	✓	125	155	2 000	3 600	2 000	3 600	17,2	5,9
460	50	3	✓	175	215	2 000	3 600	2 000	3 600	18,6	5,9
520	20	4	-	225	275	2 000	3 600	2 000	3 600	20,0	5,9
580	50	4	-	270	335	2 000	3 600	2 000	3 600	21,3	5,9
640	20	5	✓	325	395	2 000	3 600	2 000	3 600	22,7	5,9
700	50	5	✓	375	455	2 000	3 600	2 000	3 600	24,1	5,9
760	20	6	-	425	515	2 000	3 600	2 000	3 600	25,4	5,9
820	50	6	-	475	575	2 000	3 600	2 000	3 600	26,8	5,9
880	20	7	✓	525	635	2 000	3 600	2 000	3 600	28,1	5,9
940	50	7	✓	575	695	2 000	3 600	2 000	3 600	29,5	5,9
1 000	20	8	-	625	755	2 000	3 600	2 000	3 600	30,9	5,9
1 060	50	8	-	680	815	2 000	3 600	2 000	3 600	32,2	5,9
1 120	20	9	✓	730	875	2 000	3 390	2 000	3 390	33,6	5,9
1 180	50	9	✓	780	935	2 000	3 010	2 000	3 010	34,9	5,9
1 240	20	10	-	825	995	2 000	2 690	2 000	2 690	36,3	5,9
1 300	50	10	-	875	1 055	2 000	2 410	2 000	2 410	37,7	5,9
1 360	20	11	✓	925	1 115	2 000	2 180	2 000	2 180	39,0	5,9
1 420	50	11	✓	980	1 175	1 990	1 980	1 880	1 980	40,4	5,9
1 480	20	12	v	1 030	1 235	1 810	1 800	1 710	1 800	41,8	5,9
1 540	50	12	-	1 090	1 295	1 660	1 650	1 570	1 650	43,1	5,9

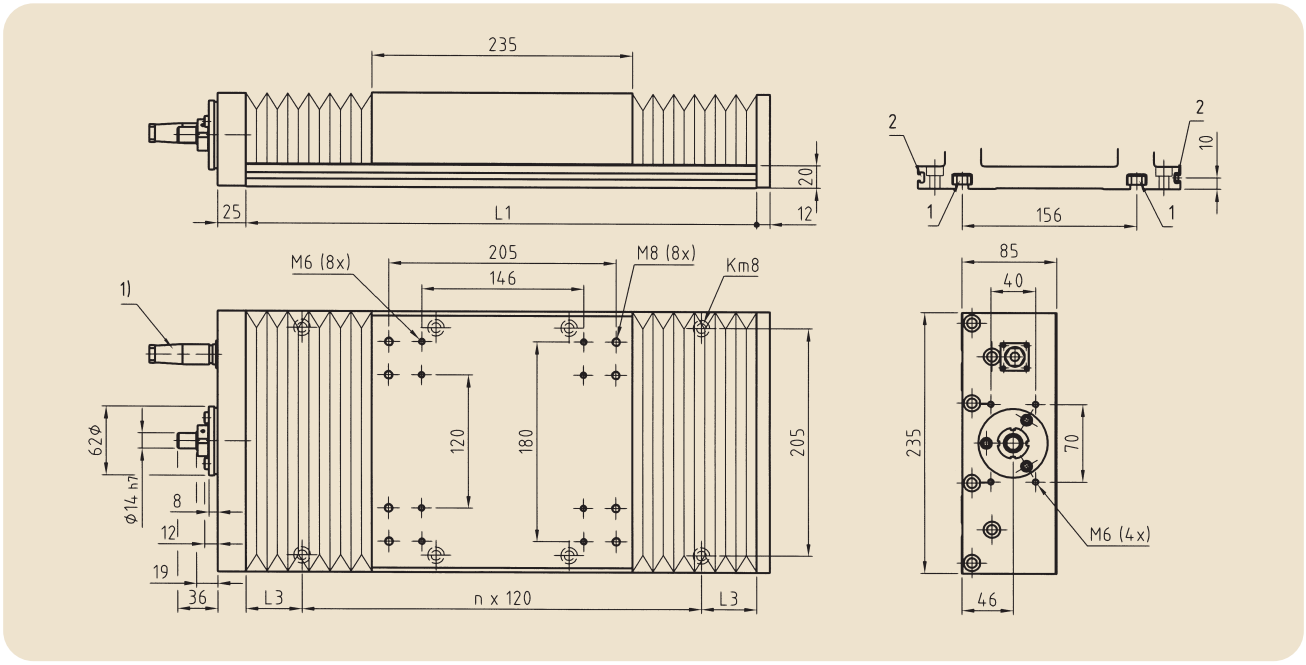
[2] Suitable as top axis for central cross table mounting

[3] Maximum mechanical stroke between end stops:
S1 with bellows (standard version)
S2 without bellows (special version)

[4] GA = Total weight of table
G0 = Weight of mobile mass of table top

Rail guide tables with ball screw drive with or without bellows

T slots in bottom part:
Slot 1: for square nut DIN 562 M10
Slot 2: for square nut DIN 562 M5



[1] Plug connection for limit and reference switches (optional)

Direction of travel: - <---> +

Length						Screw data					
			[2]	Stroke[3]		SX2505	TN2505	SX2510	TN2510+2520+2525	Weight[4]	
L1	L3	n	KN	S1	S2	n_{max}	n_{max}	n_{max}	n_{max}	G_A	G_0
mm		–		mm		1/min				kg	
1 600	20	13	✓	1 130	1 355	1 530	1 520	1 440	1 520	44,5	5,9
1 660	50	13	✓	1 180	1 415	1 410	1 400	1 330	1 400	45,8	5,9
1 720	20	14	-	1 230	1 475	1 300	1 290	1 230	1 290	47,2	5,9
1 780	50	14	-	1 280	1 535	1 210	1 200	1 140	1 200	48,6	5,9
1 840	20	15	✓	1 335	1 595	1 120	1 120	1 060	1 120	49,9	5,9
1 900	50	15	✓	1 380	1 655	1 050	1 040	990	1 040	51,3	5,9
1 960	20	16	-	1 430	1 715	980	970	920	970	52,7	5,9
2 020	50	16	-	1 480	1 775	920	920	870	910	54,0	5,9
2 080	20	17	✓	1 530	1 835	860	860	810	860	55,4	5,9
2 140	50	17	✓	1 580	1 895	810	800	760	800	56,7	5,9
2 200	20	18	-	1 635	1 955	760	760	720	760	58,1	5,9
2 260	50	18	-	1 685	2 015	720	720	680	720	59,5	5,9
2 320	20	19	✓	1 735	2 075	680	608	640	680	60,8	5,9
2 380	50	19	✓	1 785	2 135	640	640	610	640	62,2	5,9
2 440	20	20	-	1 835	2 195	610	610	580	610	63,6	5,9
2 500	50	20	-	1 880	2 255	580	580	550	580	64,9	5,9
2 560	20	21	✓	1 930	2 315	550	550	520	550	66,3	5,9
2 620	50	21	✓	1 985	2 375	520	520	490	520	67,6	5,9
2 680	20	22	-	2 035	2 435	500	500	470	500	69,0	5,9
2 740	50	22	-	2 085	2 495	480	470	450	470	70,4	5,9
2 800	20	23	✓	2 135	2 555	450	450	430	450	71,7	5,9
2 860	50	23	✓	2 185	2 615	430	430	410	430	73,1	5,9

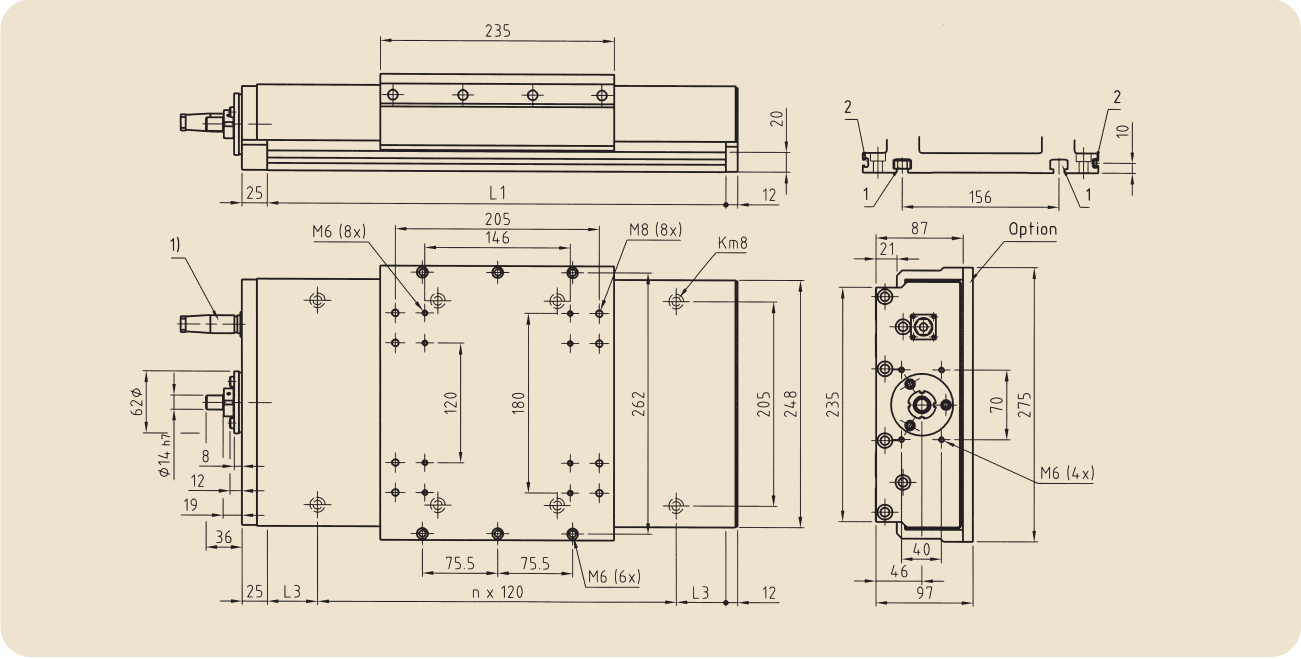
[2] Suitable as top axis for central cross table mounting

[3] Maximum mechanical stroke between end stops:
S1 with bellows (standard version)
S2 without bellows (special version)

[4] G_A = Total weight of table
G_0 = Weight of mobile mass of table top

Rail guide tables with ball screw drive with steel cover

T slots in bottom part:
Slot 1: for square nut DIN 562 M10
Slot 2: for square nut DIN 562 M5



[1] Plug connection for limit and reference switches (optional)

Direction of travel: - <---> +

Length					Screw data				Weight[4]	
			[2]	Stroke[3]	SX2505	TN2505	SX2510	TN2510+2520+2525		
L1	L3	n	KN	S	n_{max}	n_{max}	n_{max}	n_{max}	G_A	G_0
mm		–		mm	1/min				kg	
280	20	2	-	35	2 000	3 600	2 000	3 600	18,1	8,5
340	50	2	-	95	2 000	3 600	2 000	3 600	19,6	8,5
400	20	3	✓	155	2 000	3 600	2 000	3 600	21,1	8,5
460	50	3	✓	215	2 000	3 600	2 000	3 600	22,7	8,5
520	20	4	-	275	2 000	3 600	2 000	3 600	24,2	8,5
580	50	4	-	335	2 000	3 600	2 000	3 600	25,7	8,5
640	20	5	✓	395	2 000	3 600	2 000	3 600	27,3	8,5
700	50	5	✓	455	2 000	3 600	2 000	3 600	28,8	8,5
760	20	6	-	515	2 000	3 600	2 000	3 600	30,3	8,5
820	50	6	-	575	2 000	3 600	2 000	3 600	31,8	8,5
880	20	7	✓	635	2 000	3 600	2 000	3 600	33,4	8,5
940	50	7	✓	695	2 000	3 600	2 000	3 600	34,9	8,5
1 000	20	8	-	755	2 000	3 600	2 000	3 600	36,4	8,5
1 060	50	8	-	815	2 000	3 600	2 000	3 600	37,9	8,5
1 120	20	9	✓	875	2 000	3 390	2 000	3 380	39,5	8,5
1 180	50	9	✓	935	2 000	3 010	2 000	2 990	41,0	8,5
1 240	20	10	-	995	2 000	2 690	2 000	2 670	42,5	8,5
1 300	50	10	-	1 055	2 000	2 410	2 000	2 400	44,1	8,5
1 360	20	11	✓	1 115	2 000	2 180	2 000	2 170	45,6	8,5
1 420	50	11	✓	1 175	1 990	1 980	1 880	1 970	47,1	8,5
1 480	20	12	-	1 235	1 810	1 800	1 710	1 800	48,6	8,5
1 540	50	12	-	1 295	1 660	1 650	1 570	1 640	50,2	8,5
1 600	20	13	✓	1 355	1 530	1 520	1 440	1 510	51,7	8,5
1 660	50	13	✓	1 415	1 410	1 400	1 330	1 390	53,2	8,5

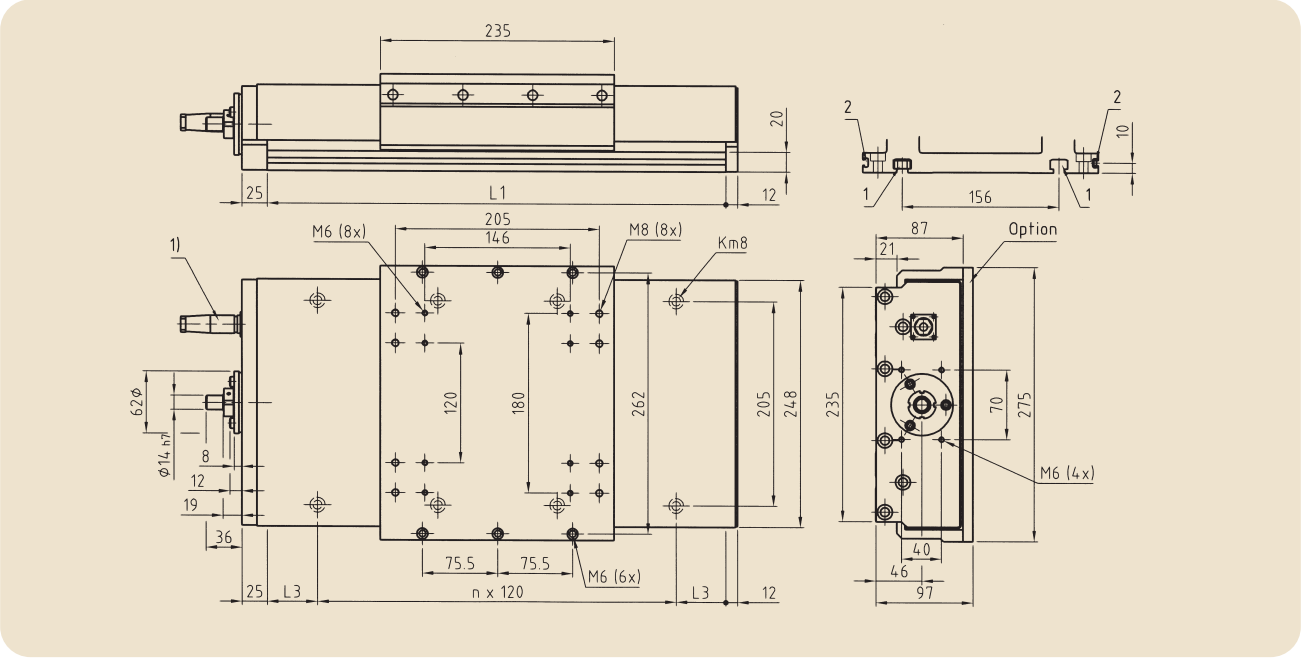
[2] Suitable as top axis for central cross table mounting

[3] Maximum mechanical stroke between end stops

[4] G_A = Total weight of table
G_0 = Weight of mobile mass of table top

Rail guide tables with ball screw drive with steel cover

T slots in bottom part:
Slot 1: for square nut DIN 562 M10
Slot 2: for square nut DIN 562 M5



[1] Plug connection for limit and reference switches (optional)

Direction of travel: - <---> +

Length					Screw data					
			[2]	Stroke[3]	SX2505	TN2505	SX2510	TN2510+2520+2525	Weight[4]	
L1	L3	n	KN	S	n_{max}	n_{max}	n_{max}	n_{max}	G_A	G_0
mm		–		mm	1/min				kg	
1 720	20	14	-	1 475	1 300	1 290	1 230	1 290	54,7	8,5
1 780	50	14	-	1 535	1 210	1 200	1 140	1 200	56,3	8,5
1 840	20	15	✓	1 595	1 120	1 120	1 060	1 110	57,8	8,5
1 900	50	15	✓	1 655	1 050	1 040	990	1 040	59,3	8,5
1 960	20	16	-	1 715	980	970	920	970	60,9	8,5
2 020	50	16	-	1 775	920	910	870	910	62,4	8,5
2 080	20	17	✓	1 835	860	860	810	860	63,9	8,5
2 140	50	17	✓	1 895	810	800	760	800	65,4	8,5
2 200	20	18	-	1 955	760	760	720	760	67,0	8,5
2 260	50	18	-	2 015	720	720	680	720	68,5	8,5
2 320	20	19	✓	2 075	680	680	640	680	70,0	8,5
2 380	50	19	✓	2 135	640	640	610	640	71,5	8,5
2 440	20	20	-	2 195	610	610	580	610	73,1	8,5
2 500	50	20	-	2 255	580	580	550	580	74,6	8,5
2 560	20	21	✓	2 315	550	550	520	550	76,1	8,5
2 620	50	21	✓	2 375	520	520	490	520	77,7	8,5
2 680	20	22	-	2 435	500	500	470	500	79,2	8,5
2 740	50	22	-	2 495	480	470	450	470	80,7	8,5
2 800	20	23	✓	2 555	450	450	430	450	82,2	8,5
2 860	50	23	✓	2 615	430	430	410	430	83,8	8,5

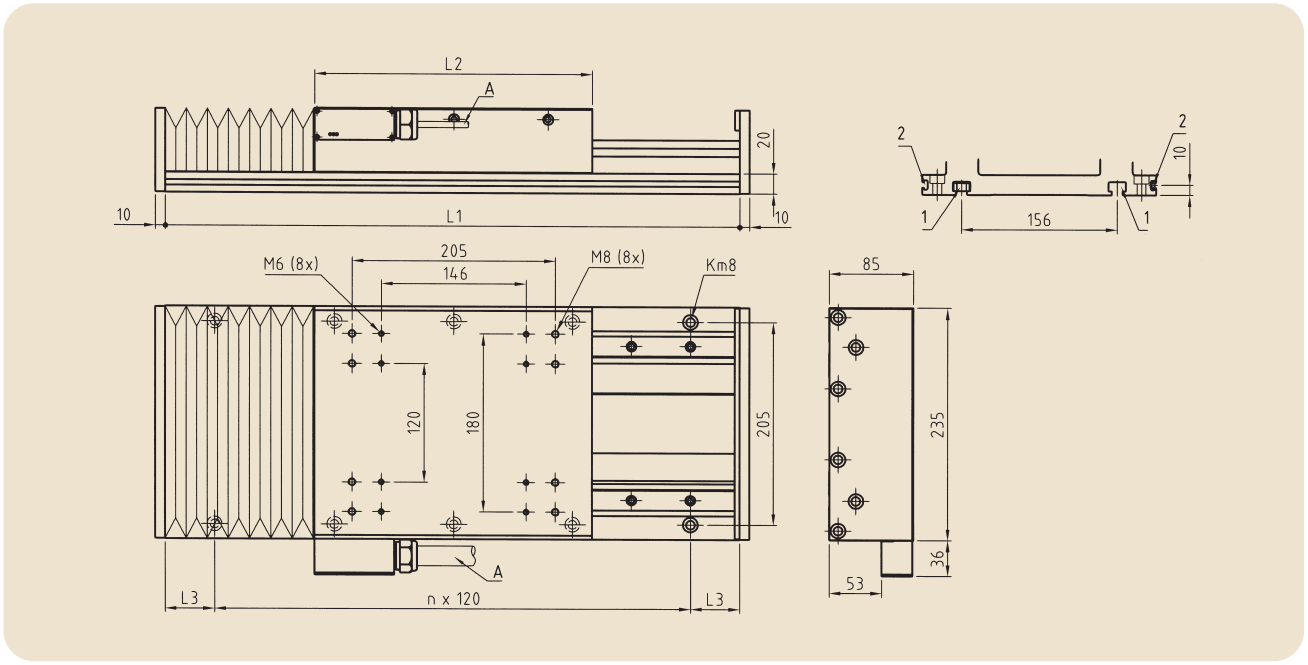
[2] Suitable as top axis for central cross table mounting

[3] Maximum mechanical stroke between end stops

[4] G_A = Total weight of table
G_0 = Weight of mobile mass of table top

Rail guide tables with linear motor drive with or without bellows

T slots in bottom part:
Slot 1: for square nut DIN 562 M10
Slot 2: for square nut DIN 562 M5



A cable output for motor and measuring system. Flat ribbon cable 20 x 6.3 mm

Direction of travel: - <---> +

Length					A32008				A33008				AC34008			
			2)	4)		Stroke[3]		5)		Stroke[3]		5)		Stroke[3]		5)
L1	L3	n	KN	G_U	L2	S1	S2	G_0	L2	S1	S2	G_0	L2	S1	S2	G_0
mm		–		kg	mm			kg	mm			kg	mm			kg
340	50	2	-	8,8	**235**	75	95	8,0	**320**	-	-	10,6	**410**	-	-	13,1
400	20	3	✓	10,2	**235**	125	155	8,0	**320**	55	70	10,6	**410**	-	-	13,1
460	50	3	✓	11,6	**235**	175	215	8,0	**320**	105	130	10,6	**410**	-	-	13,1
520	20	4	-	12,9	**235**	225	275	8,0	**320**	155	190	10,6	**410**	80	100	13,1
580	50	4	-	14,3	**235**	270	335	8,0	**320**	205	250	10,6	**410**	130	160	13,1
640	20	5	✓	15,7	**235**	325	395	8,0	**320**	250	310	10,6	**410**	180	220	13,1
700	50	5	✓	17,1	**235**	375	455	8,0	**320**	300	370	10,6	**410**	230	280	13,1
760	20	6	-	18,4	**235**	425	515	8,0	**320**	350	430	10,6	**410**	275	340	13,1
820	50	6	-	19,8	**235**	475	575	8,0	**320**	405	490	10,6	**410**	325	400	13,1
880	20	7	✓	21,2	**235**	525	635	8,0	**320**	455	550	10,6	**410**	380	460	13,1
940	50	7	✓	22,6	**235**	575	695	8,0	**320**	505	610	10,6	**410**	430	520	13,1
1 000	20	8	-	23,9	**235**	625	755	8,0	**320**	555	670	10,6	**410**	480	580	13,1
1 060	50	8	-	25,3	**235**	680	815	8,0	**320**	605	730	10,6	**410**	530	640	13,1
1 120	20	9	✓	26,7	**235**	730	875	8,0	**320**	655	790	10,6	**410**	580	700	13,1
1 180	50	9	✓	28,1	**235**	780	935	8,0	**320**	710	850	10,6	**410**	630	760	13,1
1 240	20	10	-	29,4	**235**	825	995	8,0	**320**	760	910	10,6	**410**	680	820	13,1
1 300	50	10	-	30,8	**235**	875	1 055	8,0	**320**	805	970	10,6	**410**	735	880	13,1
1 360	20	11	✓	32,2	**235**	925	1 115	8,0	**320**	855	1 030	10,6	**410**	785	940	13,1
1 420	50	11	✓	33,6	**235**	980	1 175	8,0	**320**	905	1 090	10,6	**410**	830	1 000	13,1
1 480	20	12	-	34,9	**235**	1 030	1 235	8,0	**320**	955	1 150	10,6	**410**	880	1 060	13,1
1 540	50	12	-	36,3	**235**	1 080	1 295	8,0	**320**	1 005	1 210	10,6	**410**	930	1 120	13,1
1 600	20	13	✓	37,7	**235**	1 130	1 355	8,0	**320**	1 060	1 270	10,6	**410**	980	1 180	13,1
1 660	50	13	✓	39,1	**235**	1 180	1 415	8,0	**320**	1 110	1 330	10,6	**410**	1 035	1 240	13,1

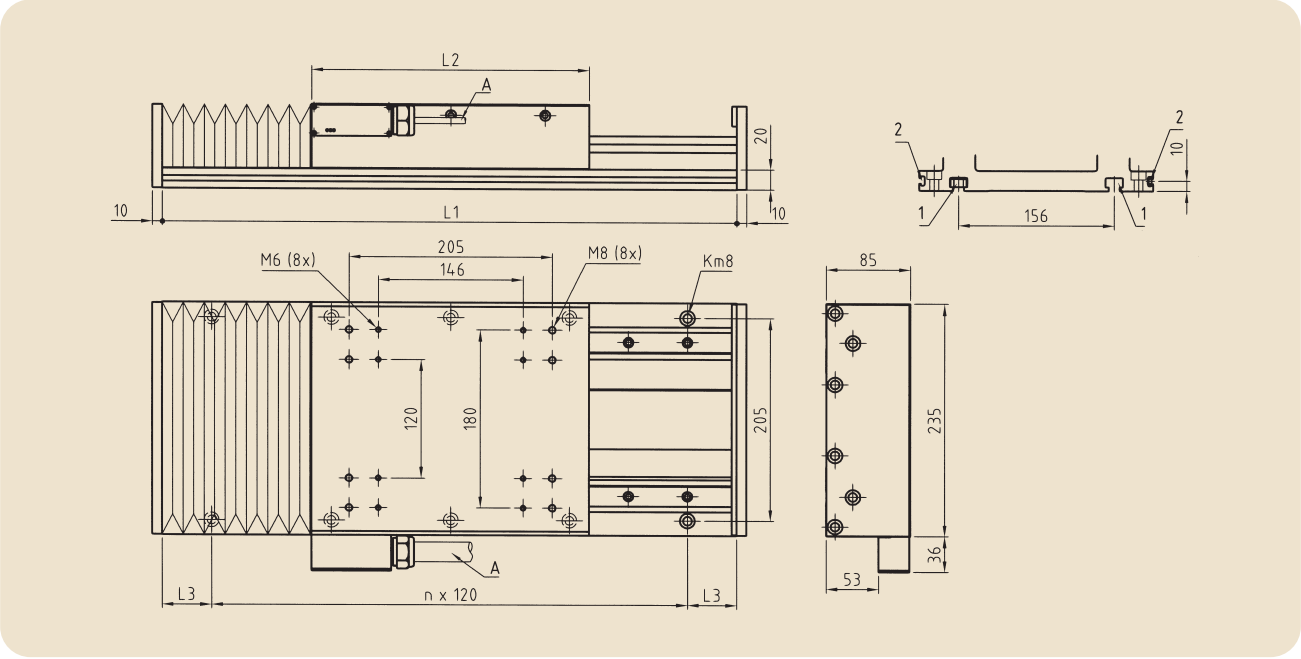
[2] Suitable as top axis for central cross table mounting

[3] Maximum mechanical stroke between end stops:
S1 with bellows (standard version)
S2 without bellows (special version)

[4] G_U = Stationary mass of bottom part
[5] G_0 = Mobile mass of table top

Rail guide tables with linear motor drive with or without bellows

T slots in bottom part:
Slot 1: for square nut DIN 562 M10
Slot 2: for square nut DIN 562 M5



A cable output for motor and measuring system. Flat ribbon cable 20 x 6.3 mm

Direction of travel: - <---> +

Length					A32008				A33008				AC34008			
			2)	4)		Stroke3)		5)		Stroke3)		5)		Stroke3)		5)
L1	L3	n	KN	G_U	L2	S1	S2	G_0	L2	S1	S2	G_0	L2	S1	S2	G_0
mm		–		kg	mm			kg	mm			kg	mm			kg
1 720	20	14	-	40,4	**235**	1 230	1 475	8,0	**320**	1 160	1 390	10,6	**410**	1 085	1 300	13,1
1 780	50	14	-	41,8	**235**	1 280	1 535	8,0	**320**	1 210	1 450	10,6	**410**	1 135	1 360	13,1
1 840	20	15	✓	43,2	**235**	1 335	1 595	8,0	**320**	1 260	1 510	10,6	**410**	1 185	1 420	13,1
1 900	50	15	✓	44,6	**235**	1 385	1 655	8,0	**320**	1 310	1 570	10,6	**410**	1 235	1 480	13,1
1 960	20	16	-	45,9	**235**	1 430	1 715	8,0	**320**	1 360	1 630	10,6	**410**	1 285	1 540	13,1
2 020	50	16	-	47,3	**235**	1 480	1 775	8,0	**320**	1 410	1 690	10,6	**410**	1 330	1 600	13,1
2 080	20	17	✓	48,7	**235**	1 530	1 835	8,0	**320**	1 460	1 750	10,6	**410**	1 385	1 660	13,1
2 140	50	17	✓	50,1	**235**	1 580	1 895	8,0	**320**	1 510	1 810	10,6	**410**	1 435	1 720	13,1
2 200	20	18	-	51,4	**235**	1 635	1 955	8,0	**320**	1 560	1 870	10,6	**410**	1 485	1 780	13,1
2 260	50	18	-	52,8	**235**	1 685	2 015	8,0	**320**	1 610	1 930	10,6	**410**	1 535	1 840	13,1
2 320	20	19	✓	54,2	**235**	1 735	2 075	8,0	**320**	1 660	1 990	10,6	**410**	1 585	1 900	13,1
2 380	50	19	✓	55,6	**235**	1 785	2 135	8,0	**320**	1 715	2 050	10,6	**410**	1 635	1 960	13,1
2 440	20	20	-	56,9	**235**	1 835	2 195	8,0	**320**	1 765	2 110	10,6	**410**	1 690	2 020	13,1
2 500	50	20	-	58,3	**235**	1 880	2 255	8,0	**320**	1 815	2 170	10,6	**410**	1 740	2 080	13,1
2 560	20	21	✓	59,7	**235**	1 930	2 315	8,0	**320**	1 865	2 230	10,6	**410**	1 790	2 140	13,1
2 620	50	21	✓	61,1	**235**	1 985	2 375	8,0	**320**	1 910	2 290	10,6	**410**	1 840	2 200	13,1
2 680	20	22	-	62,4	**235**	2 035	2 435	8,0	**320**	1 960	2 350	10,6	**410**	1 885	2 260	13,1
2 740	50	22	-	63,8	**235**	2 085	2 495	8,0	**320**	2 015	2 410	10,6	**410**	1 935	2 320	13,1
2 800	20	23	✓	65,2	**235**	2 135	2 555	8,0	**320**	2 065	2 470	10,6	**410**	1 985	2 380	13,1
2 860	50	23	✓	66,6	**235**	2 185	2 615	8,0	**320**	2 115	2 530	10,6	**410**	2 040	2 440	13,1

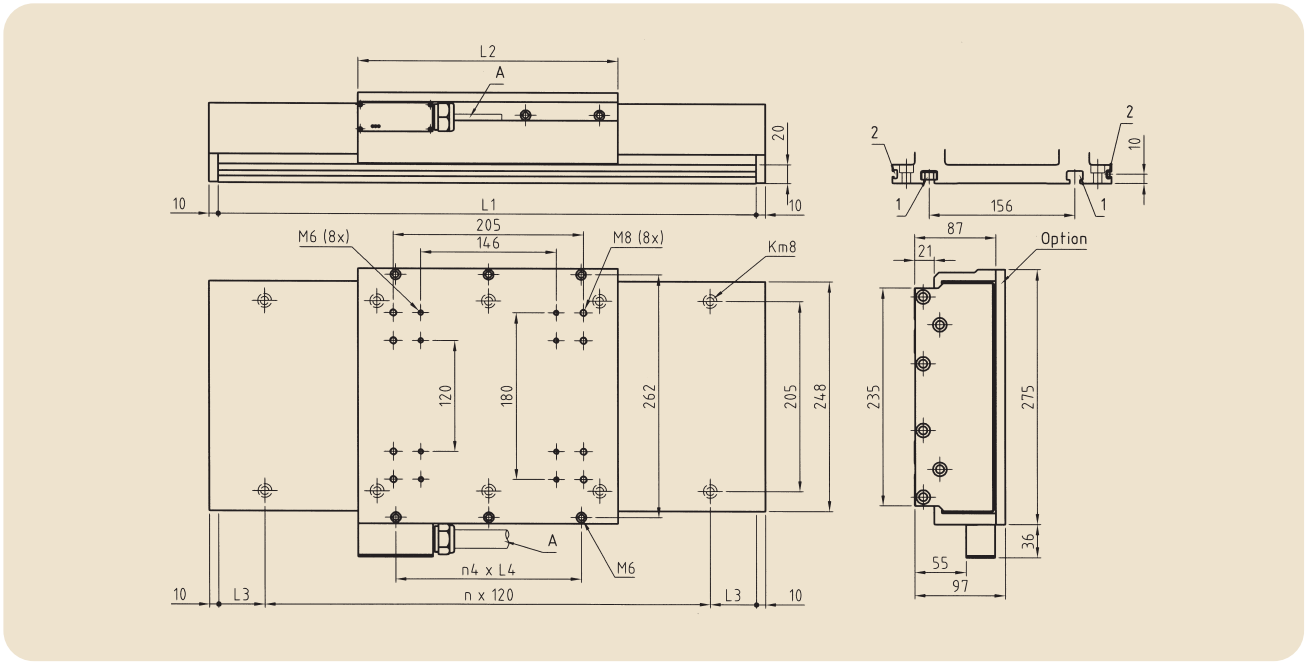
2) Suitable as top axis for central cross table mounting

3) Maximum mechanical stroke between end stops:
S1 with bellows (standard version)
S2 without bellows (special version)

4) G_U = Stationary mass of bottom part
5) G_0 = Mobile mass of table top

Rail guide tables with linear motor drive with steel cover

T slots in bottom part:
Slot 1: for square nut DIN 562 M10
Slot 2: for square nut DIN 562 M5



A cable output for motor and measuring system. Flat ribbon cable 20 x 6.3 mm

Direction of travel: - <---> +

Length					A32008				A33008				A34008			
			[2]	[4]		Stroke[3]		[5]		Stroke[3]		[5]		Stroke[3]		[5]
L1	L3	n	KN	G_U	L2	S	n_{4xL4}	G_0	L2	S	n_{4xL4}	G_0	L2	S	n_{4xL4}	G_0
mm		–		kg	mm			kg	mm			kg	mm			kg
340	50	2	-	9,9	**235**	95	2x98	10,5	**320**	-	3x78	14,1	**410**	-	4x81,5	17,6
400	20	3	✓	11,5	**235**	155	2x98	10,5	**320**	70	3x78	14,1	**410**	-	4x81,5	17,6
460	50	3	✓	13,0	**235**	215	2x98	10,5	**320**	130	3x78	14,1	**410**	-	4x81,5	17,6
520	20	4	-	14,5	**235**	275	2x98	10,5	**320**	190	3x78	14,1	**410**	100	4x81,5	17,6
580	50	4	-	16,1	**235**	335	2x98	10,5	**320**	250	3x78	14,1	**410**	160	4x81,5	17,6
640	20	5	✓	17,6	**235**	395	2x98	10,5	**320**	310	3x78	14,1	**410**	220	4x81,5	17,6
700	50	5	✓	19,2	**235**	455	2x98	10,5	**320**	370	3x78	14,1	**410**	280	4x81,5	17,6
760	20	6	-	20,7	**235**	515	2x98	10,5	**320**	430	3x78	14,1	**410**	340	4x81,5	17,6
820	50	6	-	22,2	**235**	575	2x98	10,5	**320**	490	3x78	14,1	**410**	400	4x81,5	17,6
880	20	7	✓	23,8	**235**	635	2x98	10,5	**320**	550	3x78	14,1	**410**	460	4x81,5	17,6
940	50	7	✓	25,3	**235**	695	2x98	10,5	**320**	610	3x78	14,1	**410**	520	4x81,5	17,6
1 000	20	8	-	26,9	**235**	755	2x98	10,5	**320**	670	3x78	14,1	**410**	580	4x81,5	17,6
1 060	50	8	-	28,4	**235**	815	2x98	10,5	**320**	730	3x78	14,1	**410**	640	4x81,5	17,6
1 120	20	9	✓	29,9	**235**	875	2x98	10,5	**320**	790	3x78	14,1	**410**	700	4x81,5	17,6
1 180	50	9	✓	31,5	**235**	935	2x98	10,5	**320**	850	3x78	14,1	**410**	760	4x81,5	17,6
1 240	20	10	-	33,0	**235**	995	2x98	10,5	**320**	910	3x78	14,1	**410**	820	4x81,5	17,6
1 300	50	10	-	34,6	**235**	1 055	2x98	10,5	**320**	970	3x78	14,1	**410**	880	4x81,5	17,6
1 360	20	11	✓	36,1	**235**	1 115	2x98	10,5	**320**	1 030	3x78	14,1	**410**	940	4x81,5	17,6
1 420	50	11	✓	37,6	**235**	1 175	2x98	10,5	**320**	1 090	3x78	14,1	**410**	1 000	4x81,5	17,6
1 480	20	12	-	39,2	**235**	1 235	2x98	10,5	**320**	1 150	3x78	14,1	**410**	1 060	4x81,5	17,6
1 540	50	12	-	40,7	**235**	1 295	2x98	10,5	**320**	1 210	3x78	14,1	**410**	1 120	4x81,5	17,6
1 600	20	13	✓	42,3	**235**	1 355	2x98	10,5	**320**	1 270	3x78	14,1	**410**	1 180	4x81,5	17,6
1 660	50	13	✓	43,8	**235**	1 415	2x98	10,5	**320**	1 330	3x78	14,1	**410**	1 240	4x81,5	17,6

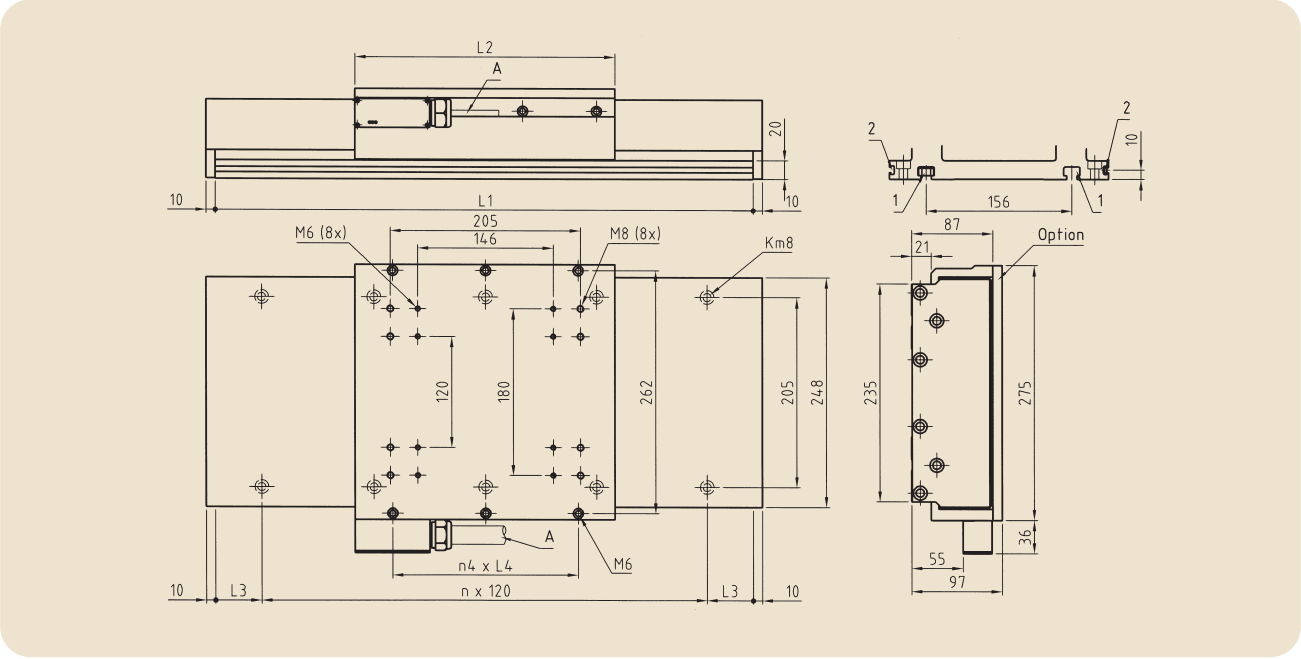
[2] Suitable as top axis for central cross table mounting

[3] Maximum mechanical stroke between end stops

[4] G_U = Stationary mass of bottom part
[5] G_0 = Mobile mass of table top

Rail guide tables with linear motor drive with steel cover

T slots in bottom part:
Slot 1: for square nut DIN 562 M10
Slot 2: for square nut DIN 562 M5



A cable output for motor and measuring system. Flat ribbon cable 20 x 6.3 mm

Direction of travel: - <---> +

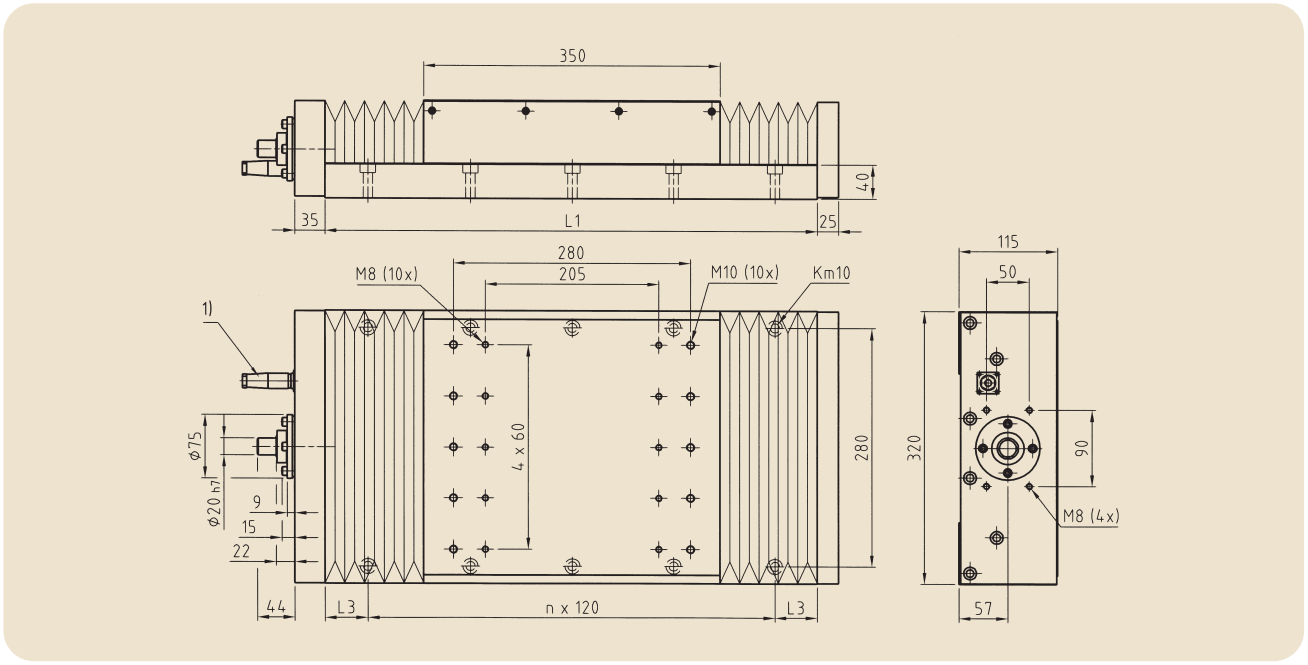
Length					A32008				A33008				A34008			
			2)	4)		Stroke3)		5)		Stroke3)		5)		Stroke3)		5)
L1	L3	n	KN	G_U	L2	S	n_{4xL4}	G_0	L2	S	n_{4xL4}	G_0	L2	S	n_{4xL4}	G_0
mm		–		kg	mm			kg	mm			kg	mm			kg
1 720	20	14	-	45,3	**235**	1 475	2x98	10,5	**320**	1 390	3x78	14,1	**410**	1 300	4x81,5	17,6
1 780	50	14	-	46,9	**235**	1 535	2x98	10,5	**320**	1 450	3x78	14,1	**410**	1 360	4x81,5	17,6
1 840	20	15	✓	48,4	**235**	1 595	2x98	10,5	**320**	1 510	3x78	14,1	**410**	1 420	4x81,5	17,6
1 900	50	15	✓	50,0	**235**	1 655	2x98	10,5	**320**	1 570	3x78	14,1	**410**	1 480	4x81,5	17,6
1 960	20	16	-	51,5	**235**	1 715	2x98	10,5	**320**	1 630	3x78	14,1	**410**	1 540	4x81,5	17,6
2 020	50	16	-	53,0	**235**	1 775	2x98	10,5	**320**	1 690	3x78	14,1	**410**	1 600	4x81,5	17,6
2 080	20	17	✓	54,6	**235**	1 835	2x98	10,5	**320**	1 750	3x78	14,1	**410**	1 660	4x81,5	17,6
2 140	50	17	✓	56,1	**235**	1 895	2x98	10,5	**320**	1 810	3x78	14,1	**410**	1 720	4x81,5	17,6
2 200	20	18	-	57,7	**235**	1 955	2x98	10,5	**320**	1 870	3x78	14,1	**410**	1 780	4x81,5	17,6
2 260	50	18	-	59,2	**235**	2 015	2x98	10,5	**320**	1 930	3x78	14,1	**410**	1 840	4x81,5	17,6
2 320	20	19	✓	60,7	**235**	2 075	2x98	10,5	**320**	1 990	3x78	14,1	**410**	1 900	4x81,5	17,6
2 380	50	19	✓	62,3	**235**	2 135	2x98	10,5	**320**	2 050	3x78	14,1	**410**	1 960	4x81,5	17,6
2 440	20	20	-	63,8	**235**	2 195	2x98	10,5	**320**	2 110	3x78	14,1	**410**	2 020	4x81,5	17,6
2 500	50	20	-	65,4	**235**	2 255	2x98	10,5	**320**	2 170	3x78	14,1	**410**	2 080	4x81,5	17,6
2 560	20	21	✓	66,9	**235**	2 315	2x98	10,5	**320**	2 230	3x78	14,1	**410**	2 140	4x81,5	17,6
2 620	50	21	✓	68,4	**235**	2 375	2x98	10,5	**320**	2 290	3x78	14,1	**410**	2 200	4x81,5	17,6
2 680	20	22	-	70,0	**235**	2 435	2x98	10,5	**320**	2 350	3x78	14,1	**410**	2 260	4x81,5	17,6
2 740	50	22	-	71,5	**235**	2 495	2x98	10,5	**320**	2 410	3x78	14,1	**410**	2 320	4x81,5	17,6
2 800	20	23	✓	73,1	**235**	2 555	2x98	10,5	**320**	2 470	3x78	14,1	**410**	2 380	4x81,5	17,6
2 860	50	23	✓	74,6	**235**	2 615	2x98	10,5	**320**	2 530	3x78	14,1	**410**	2 440	4x81,5	17,6

2) Suitable as top axis for central cross table mounting

3) Maximum mechanical stroke between end stops

4) G^U = Stationary mass of bottom part
5) G^0 = Mobile mass of table top

Rail guide tables with ball screw drive with or without bellows



[1] Plug connection for limit and reference switches (optional)

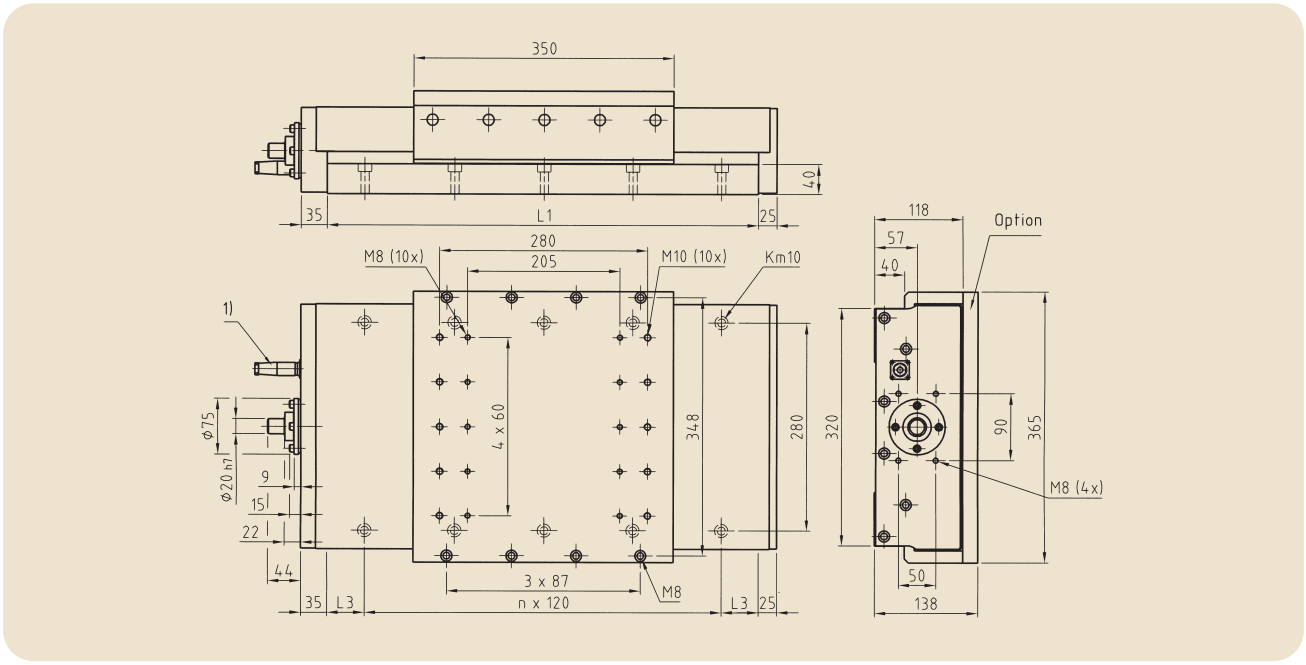
Direction of travel: - <---> +

Length			Stroke[2]		Screw data SX3205	TN3205	SX3210	TN3210	TN3220+3232+3240	Weight[3]	
L1	L3	n	S1	S2	n_{max}	n_{max}	n_{max}	n_{max}	n_{max}	G_A	G_0
mm		–	mm		1/min					kg	
580	50	4	185	220	1 560	2 810	1 560	2 810	2 810	43,5	13,3
700	50	5	290	340	1 560	2 810	1 560	2 810	2 810	48,5	13,3
820	50	6	390	460	1 560	2 810	1 560	2 810	2 810	53,4	13,3
940	50	7	500	580	1 560	2 810	1 560	2 810	2 810	58,4	13,3
1 060	50	8	600	700	1 560	2 810	1 560	2 810	2 810	63,3	13,3
1 180	50	9	710	820	1 560	2 810	1 560	2 810	2 810	68,2	13,3
1 300	50	10	810	940	1 560	2 810	1 560	2 810	2 810	73,2	13,3
1 420	50	11	915	1 060	1 560	2 810	1 560	2 810	2 810	78,1	13,3
1 540	50	12	1 015	1 180	1 560	2 610	1 560	2 520	2 520	83,1	13,3
1 660	50	13	1 125	1 300	1 560	2 180	1 560	2 100	2 100	88,0	13,3
1 780	50	14	1 225	1 420	1 560	1 850	1 560	1 780	1 780	92,9	13,3
1 900	50	15	1 335	1 540	1 560	1 590	1 440	1 530	1 530	97,9	13,3
2 020	50	16	1 435	1 660	1 380	1 380	1 250	1 330	1 330	102,8	13,3
2 140	50	17	1 540	1 780	1 210	1 200	1 090	1 160	1 160	107,8	13,3
2 260	50	18	1 645	1 900	1 070	1 060	970	1 030	1 030	112,7	13,3
2 380	50	19	1 750	2 020	950	950	860	910	910	117,7	13,3
2 500	50	20	1 850	2 140	850	850	770	820	820	122,6	13,3
2 620	50	21	1 960	2 260	760	760	690	740	740	127,5	13,3
2 740	50	22	2 060	2 380	690	690	630	670	670	132,5	13,3
2 860	50	23	2 165	2 500	630	630	570	600	600	137,4	13,3

[2] Maximum mechanical stroke between end stops:
S1 with bellows (standard version)
S2 without bellows (special version)

[3] G_A = Total weight of table
G_0 = Weight of mobile mass of table top

Rail guide tables with ball screw drive with steel cover



[1] Plug connection for limit and reference switches (optional)

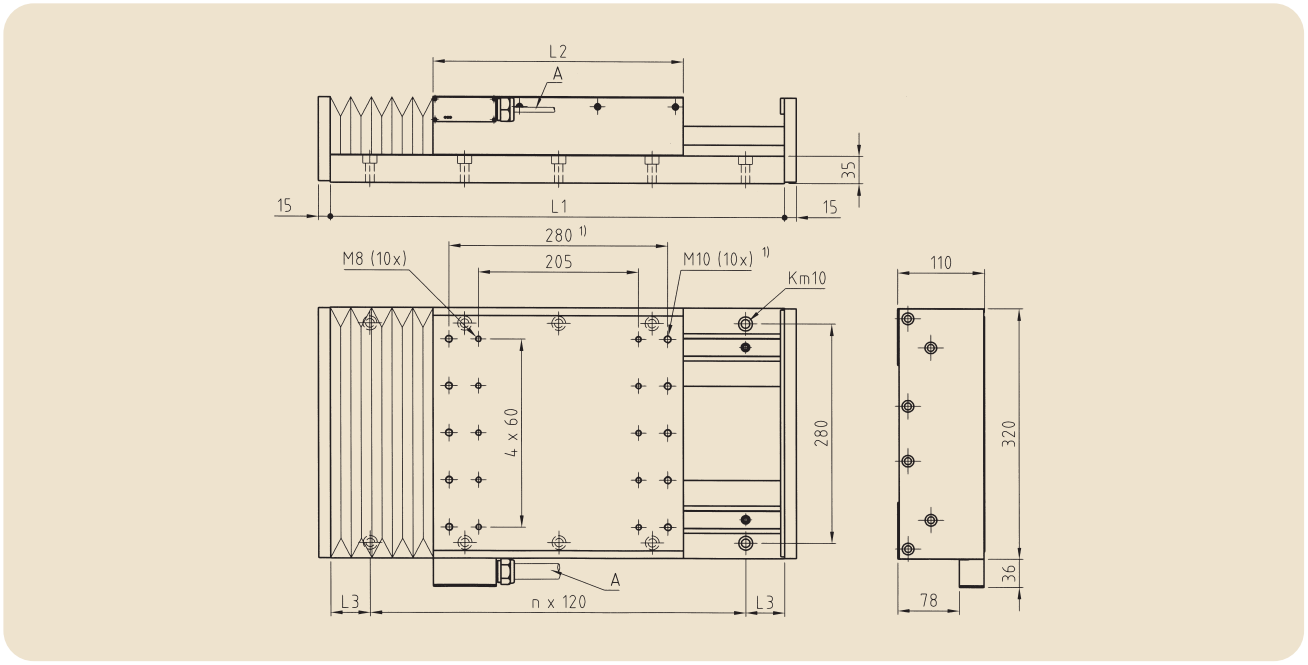
Direction of travel: - <---> +

Length			Stroke[2]	Screw data SX3205	TN3205	SX3210	TN3210	TN3220+3232+3240	Weight[4]	
L1	L3	n	S	n_{max}	n_{max}	n_{max}	n_{max}	n_{max}	G_A	G_0
mm		–	mm	1/min					kg	
580	50	4	220	1 560	2 810	1 560	2 810	2 810	62,9	30,4
700	50	5	340	1 560	2 810	1 560	2 810	2 810	68,3	30,4
820	50	6	460	1 560	2 810	1 560	2 810	2 810	73,8	30,4
940	50	7	580	1 560	2 810	1 560	2 810	2 810	79,2	30,4
1 060	50	8	700	1 560	2 810	1 560	2 810	2 810	84,6	30,4
1 180	50	9	820	1 560	2 810	1 560	2 810	2 810	90,0	30,4
1 300	50	10	940	1 560	2 810	1 560	2 810	2 810	95,5	30,4
1 420	50	11	1 060	1 560	2 810	1 560	2 810	2 810	100,9	30,4
1 540	50	12	1 180	1 560	2 610	1 560	2 520	2 520	106,3	30,4
1 660	50	13	1 300	1 560	2 180	1 560	2 100	2 100	111,7	30,4
1 780	50	14	1 420	1 560	1 850	1 560	1 780	1 780	117,2	30,4
1 900	50	15	1 540	1 560	1 590	1 440	1 530	1 530	122,6	30,4
2 020	50	16	1 660	1 380	1 380	1 250	1 330	1 330	128,0	30,4
2 140	50	17	1 780	1 210	1 200	1 090	1 160	1 160	133,5	30,4
2 260	50	18	1 900	1 070	1 060	970	1 030	1 030	138,9	30,4
2 380	50	19	2 020	950	950	860	910	910	144,3	30,4
2 500	50	20	2 140	850	850	770	820	820	149,7	30,4
2 620	50	21	2 260	760	760	690	740	740	155,2	30,4
2 740	50	22	2 380	690	690	630	670	670	160,6	30,4
2 860	50	23	2 500	630	630	570	600	600	166,0	30,4

[2] Maximum mechanical stroke between end stops

[3] G_A = Total weight of table
G_0 = Weight of mobile mass of table top

Rail guide tables with linear motor drive with or without bellows



1) only at size A33014 + A34014

A cable output for motor and measuring system. Flat ribbon cable 20 x 6.3 mm

Direction of travel: - <---> +

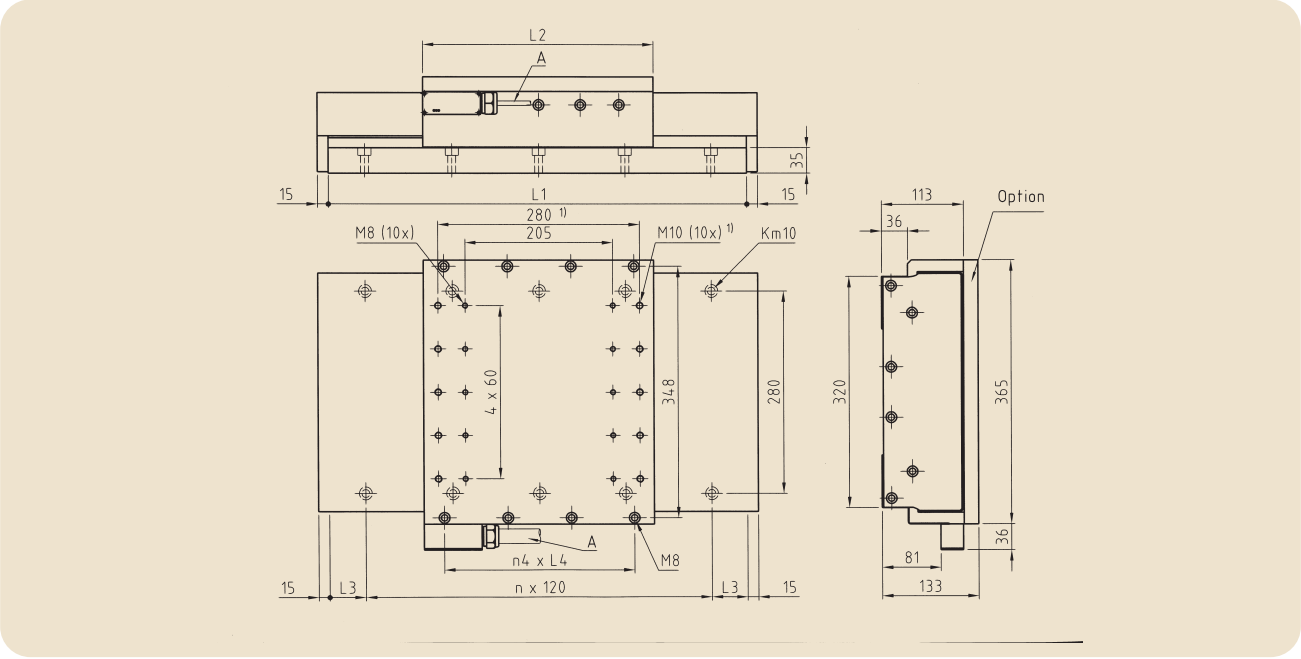
Length				A32014				A33014				A34014			
			3)		Stroke2)		4)		Stroke2)		4)		Stroke2)		4)
L1	L3	n	G_U	L2	S1	S2	G_0	L2	S1	S2	G_0	L2	S1	S2	G_0
mm		–	kg	mm			kg	mm			kg	mm			kg
580	50	4	30,4	**280**	245	290	15,3	**320**	215	250	18,7	**410**	130	160	23,8
700	50	5	36,1	**280**	350	410	15,3	**320**	315	370	18,7	**410**	235	280	23,8
820	50	6	41,9	**280**	455	530	15,3	**320**	420	490	18,7	**410**	340	400	23,8
940	50	7	47,6	**280**	555	650	15,3	**320**	525	610	18,7	**410**	445	520	23,8
1 060	50	8	53,3	**280**	665	770	15,3	**320**	630	730	18,7	**410**	545	640	23,8
1 180	50	9	59,1	**280**	765	890	15,3	**320**	730	850	18,7	**410**	655	760	23,8
1 300	50	10	64,8	**280**	875	1 010	15,3	**320**	840	970	18,7	**410**	755	880	23,8
1 420	50	11	70,5	**280**	975	1 130	15,3	**320**	940	1 090	18,7	**410**	865	1 000	23,8
1 540	50	12	76,3	**280**	1 080	1 250	15,3	**320**	1 045	1 210	18,7	**410**	965	1 120	23,8
1 660	50	13	82,0	**280**	1 180	1 370	15,3	**320**	1 150	1 330	18,7	**410**	1 070	1 240	23,8
1 780	50	14	87,7	**280**	1 290	1 490	15,3	**320**	1 255	1 450	18,7	**410**	1 170	1 360	23,8
1 900	50	15	93,5	**280**	1 390	1 610	15,3	**320**	1 355	1 570	18,7	**410**	1 280	1 480	23,8
2 020	50	16	99,2	**280**	1 500	1 730	15,3	**320**	1 465	1 690	18,7	**410**	1 380	1 600	23,8
2 140	50	17	104,9	**280**	1 600	1 850	15,3	**320**	1 565	1 810	18,7	**410**	1 490	1 720	23,8
2 260	50	18	110,7	**280**	1 705	1 970	15,3	**320**	1 675	1 930	18,7	**410**	1 590	1 840	23,8
2 380	50	19	116,4	**280**	1 810	2 090	15,3	**320**	1 775	2 050	18,7	**410**	1 695	1 960	23,8
2 500	50	20	122,1	**280**	1 915	2 210	15,3	**320**	1 880	2 170	18,7	**410**	1 800	2 080	23,8
2 620	50	21	127,9	**280**	2 015	2 330	15,3	**320**	1 985	2 290	18,7	**410**	1 905	2 200	23,8
2 740	50	22	133,6	**280**	2 125	2 450	15,3	**320**	2 090	2 410	18,7	**410**	2 005	2 320	23,8
2 860	50	23	139,3	**280**	2 225	2 570	15,3	**320**	2 190	2 530	18,7	**410**	2 115	2 440	23,8

2) Maximum mechanical stroke between end stops:
S1 with bellows (standard version)
S2 without bellows (special version)

3) G_U = Stationary mass of bottom part

4) G_0 = Mobile mass of table top

Rail guide tables with linear motor drive with steel cover



1) only at size A33014 + A34014

A cable output for motor and measuring system. Flat ribbon cable 20 x 6.3 mm

Direction of travel: - <---> +

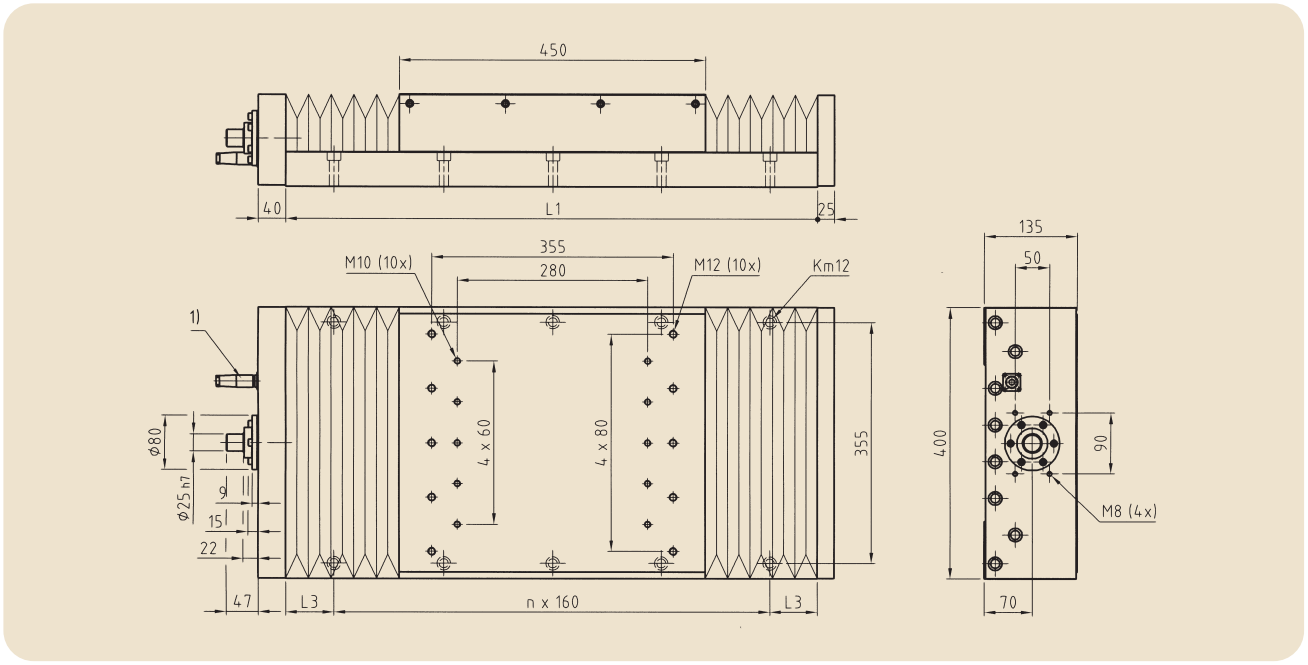
Length				A32014				A33014				A34014			
			3)		Stroke2)		4)		Stroke2)		4)		Stroke2)		4)
L1	L3	n	G_U	L2	S	n_{4xL4}	G_0	L2	S	n_{4xL4}	G_0	L2	S	n_{4xL4}	G_0
mm		–	kg	mm			kg	mm			kg	mm			kg
580	50	4	32,6	**280**	290	3x75	22,3	**320**	250	3x87	26,8	**410**	160	4x88	34,1
700	50	5	38,7	**280**	410	3x75	22,3	**320**	370	3x87	26,8	**410**	280	4x88	34,1
820	50	6	44,9	**280**	530	3x75	22,3	**320**	490	3x87	26,8	**410**	400	4x88	34,1
940	50	7	51,0	**280**	650	3x75	22,3	**320**	610	3x87	26,8	**410**	520	4x88	34,1
1 060	50	8	57,2	**280**	770	3x75	22,3	**320**	730	3x87	26,8	**410**	640	4x88	34,1
1 180	50	9	63,3	**280**	890	3x75	22,3	**320**	850	3x87	26,8	**410**	760	4x88	34,1
1 300	50	10	69,5	**280**	1 010	3x75	22,3	**320**	970	3x87	26,8	**410**	880	4x88	34,1
1 420	50	11	75,6	**280**	1 130	3x75	22,3	**320**	1 090	3x87	26,8	**410**	1 000	4x88	34,1
1 540	50	12	81,8	**280**	1 250	3x75	22,3	**320**	1 210	3x87	26,8	**410**	1 120	4x88	34,1
1 660	50	13	87,9	**280**	1 370	3x75	22,3	**320**	1 330	3x87	26,8	**410**	1 240	4x88	34,1
1 780	50	14	94,1	**280**	1 490	3x75	22,3	**320**	1 450	3x87	26,8	**410**	1 360	4x88	34,1
1 900	50	15	100,2	**280**	1 610	3x75	22,3	**320**	1 570	3x87	26,8	**410**	1 480	4x88	34,1
2 020	50	16	106,4	**280**	1 730	3x75	22,3	**320**	1 690	3x87	26,8	**410**	1 600	4x88	34,1
2 140	50	17	112,5	**280**	1 850	3x75	22,3	**320**	1 810	3x87	26,8	**410**	1 720	4x88	34,1
2 260	50	18	118,7	**280**	1 970	3x75	22,3	**320**	1 930	3x87	26,8	**410**	1 840	4x88	34,1
2 380	50	19	124,8	**280**	2 090	3x75	22,3	**320**	2 050	3x87	26,8	**410**	1 960	4x88	34,1
2 500	50	20	130,9	**280**	2 210	3x75	22,3	**320**	2 170	3x87	26,8	**410**	2 080	4x88	34,1
2 620	50	21	137,1	**280**	2 330	3x75	22,3	**320**	2 290	3x87	26,8	**410**	2 200	4x88	34,1
2 740	50	22	143,2	**280**	2 450	3x75	22,3	**320**	2 410	3x87	26,8	**410**	2 320	4x88	34,1
2 860	50	23	149,4	**280**	2 570	3x75	22,3	**320**	2 530	3x87	26,8	**410**	2 440	4x88	34,1

2) Maximum mechanical stroke between end stops

4) GU = Stationary mass of bottom part

5) GO = Mobile mass of table top

Rail guide tables with ball screw drive with or without bellows



[1] Plug connection for limit and reference switches (optional)

Direction of travel: - <---> +

Length			Stroke[2]		Screw data					Weight[3]	
					SX4005	TN4005	SX4010	TN4010	TN4020+4040		
L1	L3	n	S1	S2	n_{max}	n_{max}	n_{max}	n_{max}	n_{max}	G_A	G_0
mm		–	mm		1/min					kg	
620	70	3	135	160	1 250	2 250	1 250	2 250	2 250	77,0	25,2
780	70	4	275	320	1 250	2 250	1 250	2 250	2 250	87,7	25,2
940	70	5	420	480	1 250	2 250	1 250	2 250	2 250	98,4	25,2
1 100	70	6	560	640	1 250	2 250	1 250	2 250	2 250	109,1	25,2
1 260	70	7	700	800	1 250	2 250	1 250	2 250	2 250	119,8	25,2
1 420	70	8	850	960	1 250	2 250	1 250	2 250	2 250	130,5	25,2
1 580	70	9	990	1 120	1 250	2 250	1 250	2 250	2 250	141,2	25,2
1 740	70	10	1 130	1 280	1 250	2 250	1 250	2 250	2 250	151,9	25,2
1 900	70	11	1 270	1 440	1 250	2 150	1 250	1 980	1 980	162,6	25,2
2 060	70	12	1 410	1 600	1 250	1 780	1 250	1 630	1 630	173,3	25,2
2 220	70	13	1 555	1 760	1 250	1 490	1 250	1 370	1 370	184,0	25,2
2 380	70	14	1 695	1 920	1 250	1 270	1 180	1 160	1 160	194,7	25,2
2 540	70	15	1 835	2 080	1 090	1 090	1 010	1 000	1 000	205,4	25,2
2 700	70	16	1 975	2 240	950	950	880	870	870	216,1	25,2
2 860	70	17	2 125	2 400	840	830	770	760	760	226,8	25,2

[2] Maximum mechanical stroke between end stops:
S1 with bellows (standard version)
S2 without bellows (special version)

[3] G_A = Total weight of table
G_0 = Weight of mobile mass of table top

Ordering details

For linear motor slides, the following additional details are required:

- Moving mass
- Possibly applied additional forces
- Maximum and minimum speeds; maximum acceleration
- Percentage duty cycle (description of operating cycle)
- Requirements of measuring system such as signal period and accuracy
- Required positioning resolution
- Information on triggering

Please fill in the specification sheet on page 35 and return it to us.

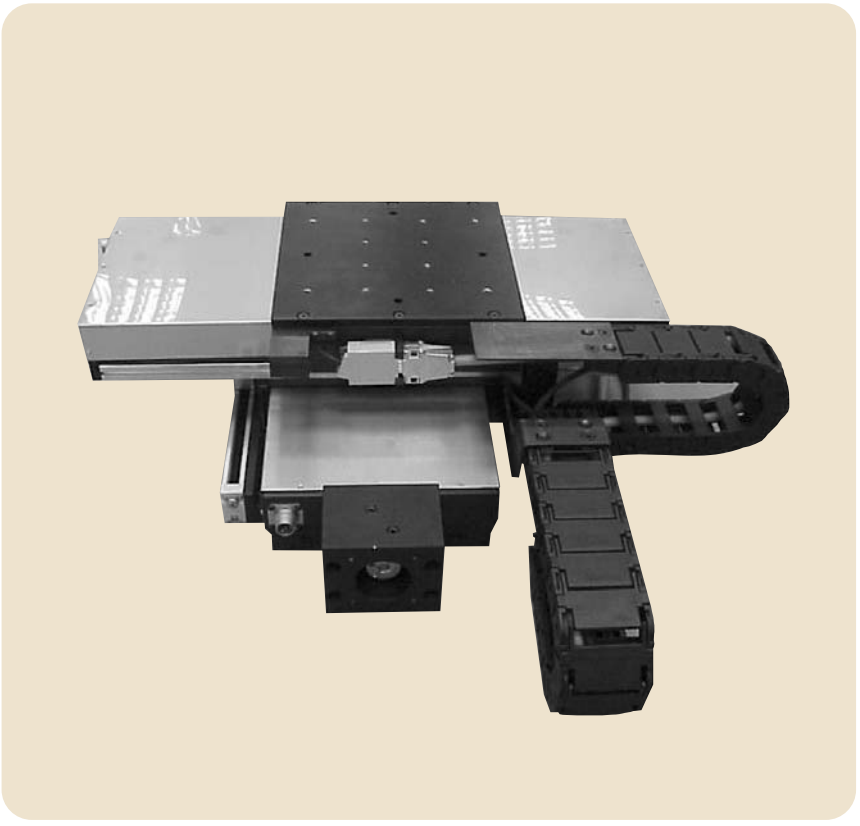
Type designation

LTB 320 · 1900 · A33014 - BL - P5

Width of table:	See dimension specifications
110 to 400	width of bottom part
Length of table:	See dimension specifications
150 to 2860	L1 Length of bottom part
Drive:	
Ball screw:	See page 6 for further information
SH	no preload
SX	no preload
TN	preloaded
TL	preloaded
12 to 40	screw diameter
04 to 40	screw lead
Linear motor drive:	See page 7 for further information
F	motor type
A	motor type
2 - 3	number of motor phases
09 - 40	primary part length [cm]
06 - 14	primary part width [cm]
Covers:	See page 8 for further information
WBL	**without bellows**
BL	with bellows
–	without cover
SC	with steel cover
SCAP	with steel cover and adapter plate
table precision:	
See page 8 for further information	
P10, P5, P2, P1	

Application samples

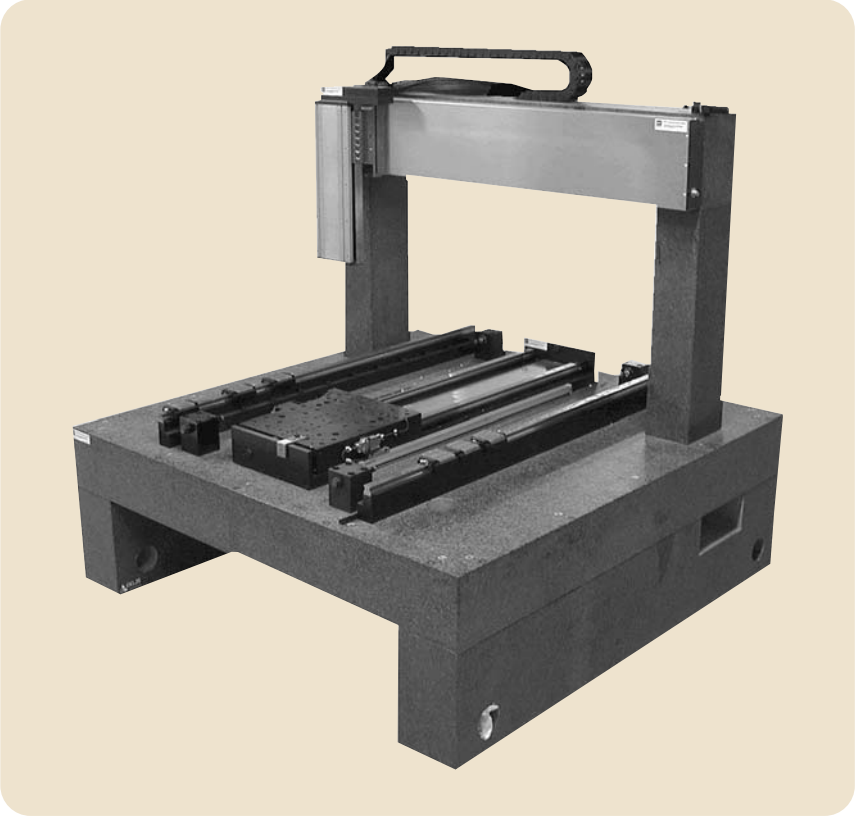
Solder paste printer



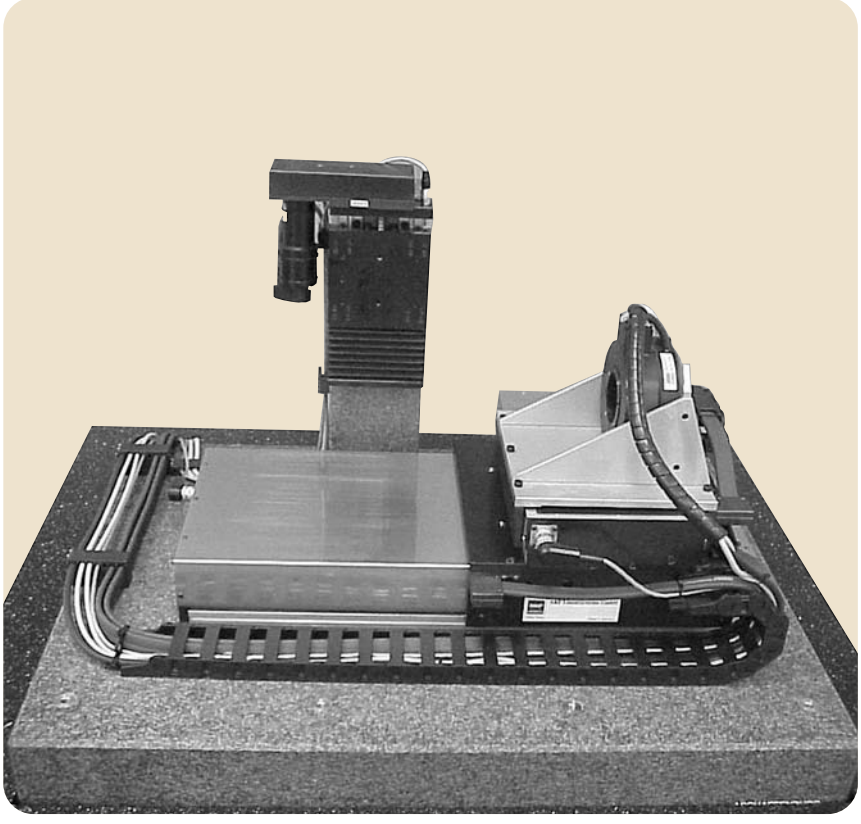
Drive for a milling / drilling unit



Laser cutting



Laser welding



Possible application schemes

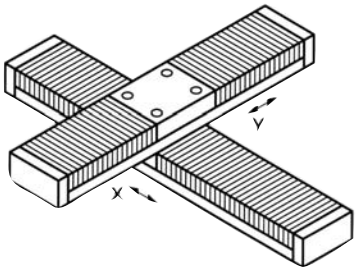


Fig. 1: Cross table X + Y

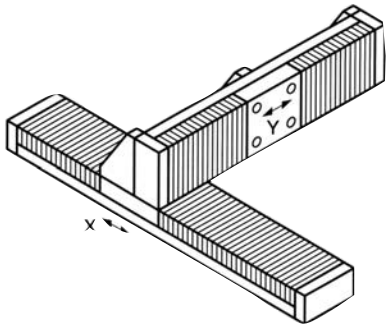


Fig. 2: Gantry X + Y

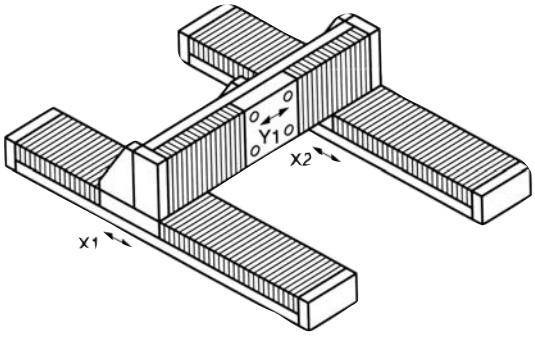


Fig. 3: Gantry X1/X2 + Y

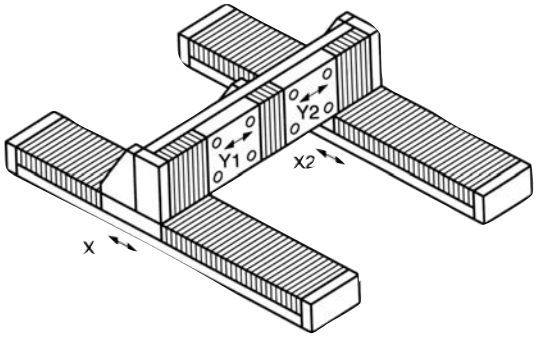


Fig. 4: Gantry X1/X2 + Y1 + Y2

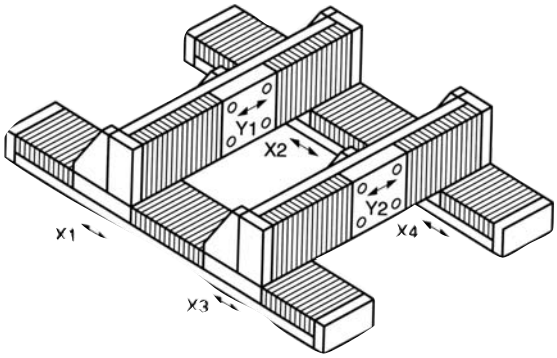


Fig. 5: Gantry X1/X2 + X3/X4 + Y1 + Y2

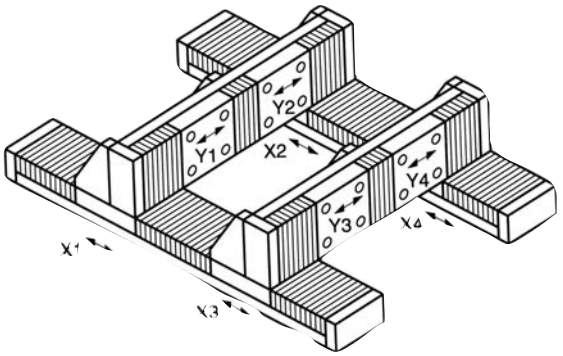


Fig. 6: Gantry X1/X2 + X3/X4 + Y1 + Y2 + Y3 + Y4

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Specification sheet for the selection of rail guide tables

1. Customer / customer address: .....

.....

2. Application: .....

			X	Y	Z
3. Number of axes in system:			.....	.....	.....
4. Effective stroke / operating stroke [mm]:			.....	.....	.....
5. Loads:		additional moving mass [kg]:	.....	.....	.....
		additional force [N]:	.....	.....	.....
		direction of force [±X, ±Y, ±Z]:	.....	.....	.....
6. Speed:		maximum [m/s]:	.....	.....	.....
		minimum [m/s]:	.....	.....	.....
7. Acceleration:		maximum [m/s^2]:	.....	.....	.....
8. Mode of operation:		duty cycle (ED) [%]:	.....	.....	.....
		length of one operating cycle [s]:	.....	.....	.....
		interval between two operating cycles [s]:	.....	.....	.....
		operating hours per year [h]:	.....	.....	.....
9. Specification life:		operating hours [h]:	.....	.....	.....
10. Precision:		straightness T [µm/S]:	.....	.....	.....
		positioning tolerance (absolute positioning accuracy) [µm]:	.....	.....	.....
		positioning variance Ps (repeating accuracy) [µm]:	.....	.....	.....
		positioning resolution [µm]:	.....	.....	.....

11. Control:

Components: only servo control ☐ .....
complete control unit ☐ .....

Positioning: linear path control ☐ .....
continuous path control ☐ .....

Interfaces: .....

.....

Options: .....

.....

12. Environmental conditions: (contamination, interference fields, place of operation).....

13. Accessories: (such as energy chain, cabling etc.).....

.....

.....

14. For multi-axial systems: arrangement of axes in accordance with drawings (see page 34).....

15. Remarks: .....

.....

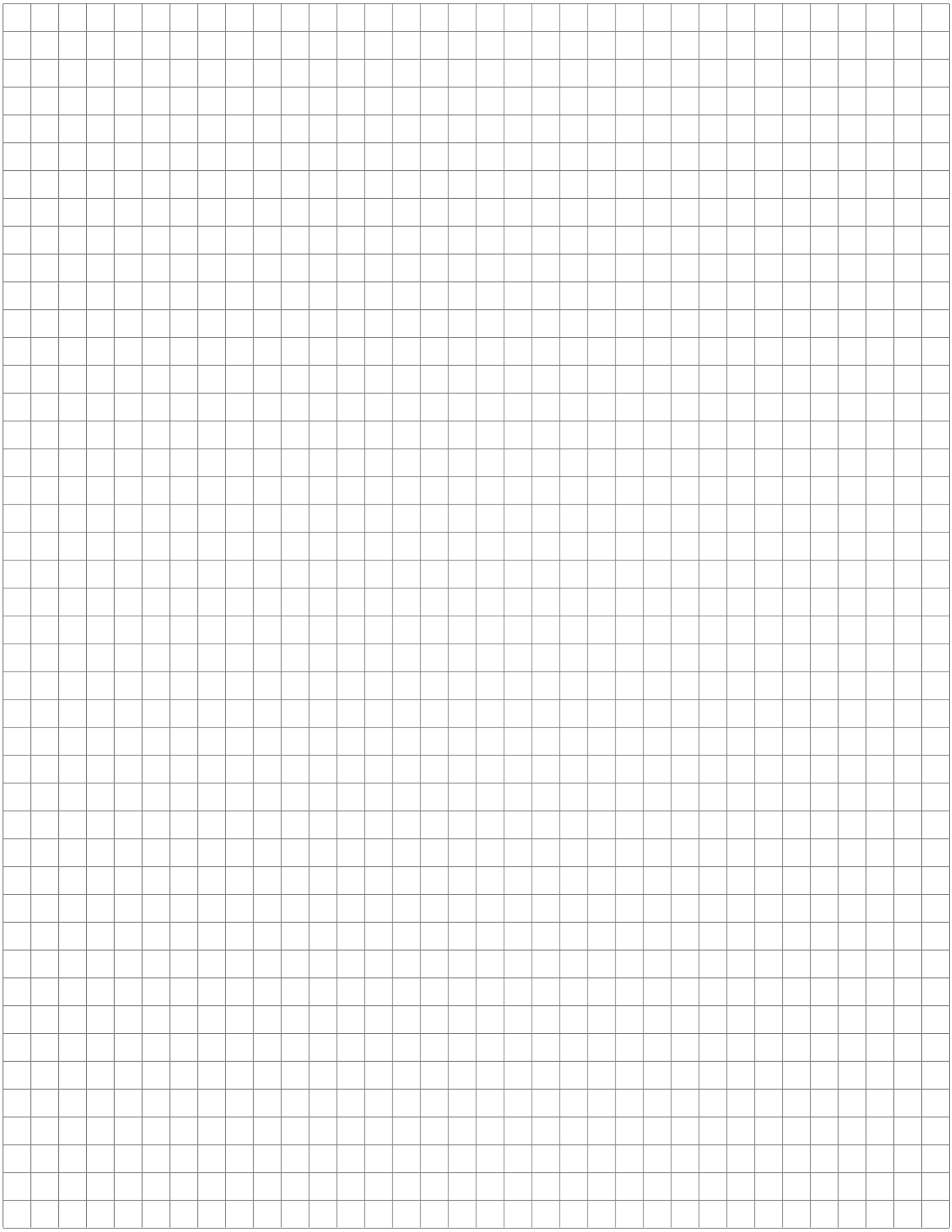
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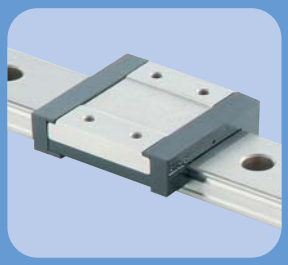
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Filled in by / on:

Notes









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