

LINE TECH In-house products

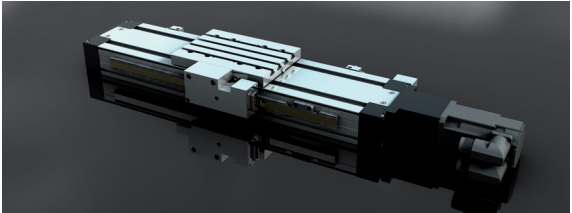
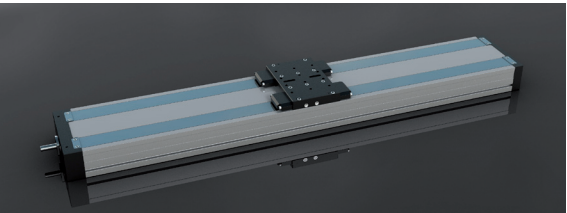
LINE TECH linear axes from in-house production stand for highest requirements towards technical capacities, precision and economic viability

The in-house products, based on an extrusion processed aluminium profile, are ready to install linear axes which are built modularly. Linear guides serve as guide elements and mainly ball screws and timing belts operate as drive function. The linear guides and the drive function are protected from outside influences by effective covers.

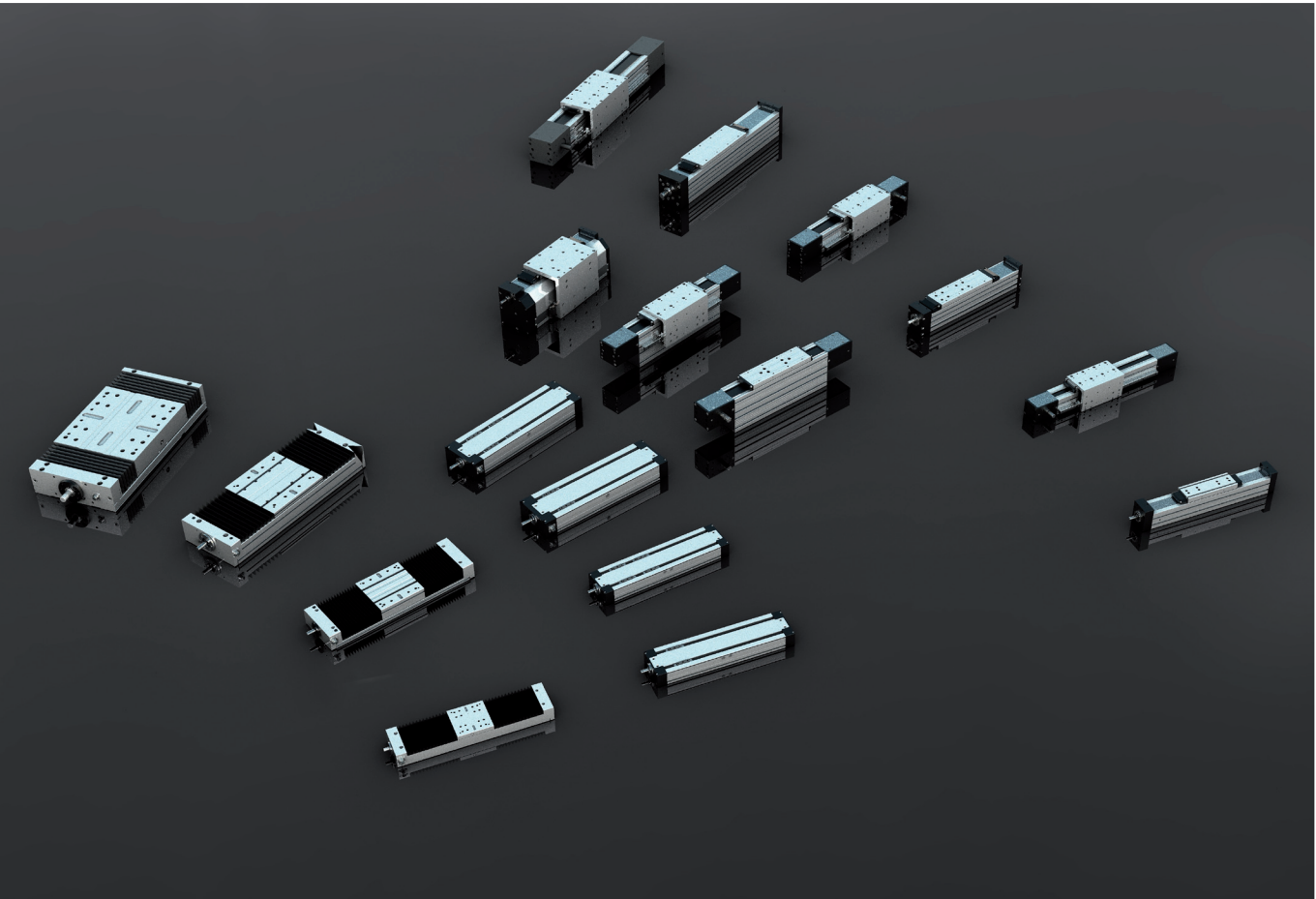
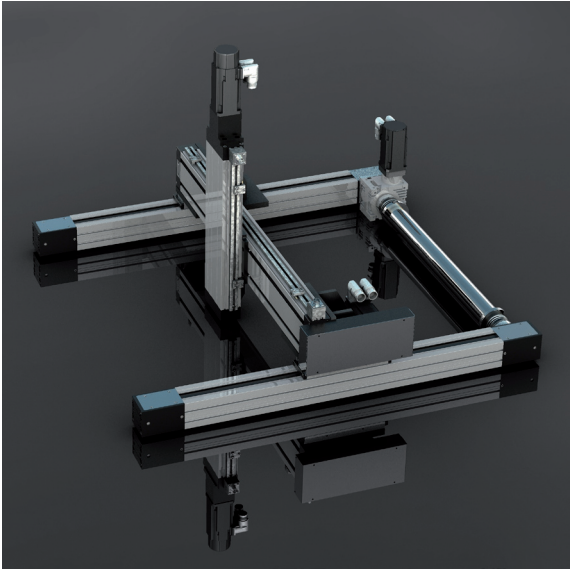
Our product range consists not only linear modules and compact units but also of positioning units. Each construction series consists of different sizes. The maximum load of the axes is going up to 370 kN.

Apart from the vast standard program LINE TECH also offers a variety of services. Competent counselling, application-oriented interpretations, client-specific engineering from motor mounting to multi-axes systems up to complete customer-made solutions are the basis of our daily business. No need to mention that we are also strong when it comes to after sales services.

Special solutions



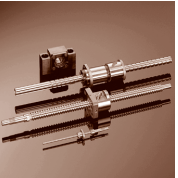
System solutions



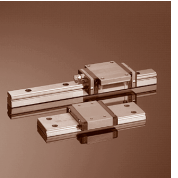
LINE TECH-Overview In-house Products

LINE TECH

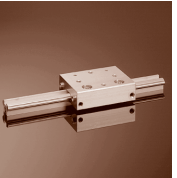
Further products



Ball screws drives



Linear rail guide systems



Roller guides



Ball bushings



Ball / cup casters

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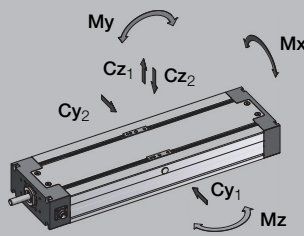
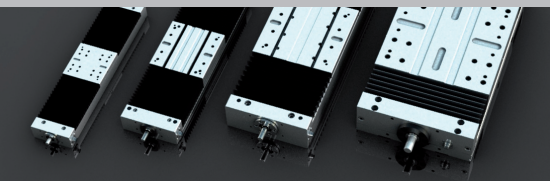
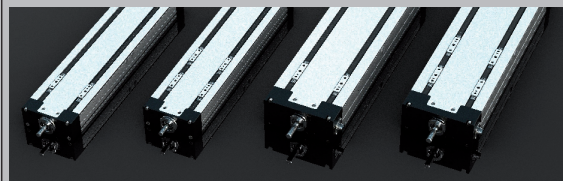

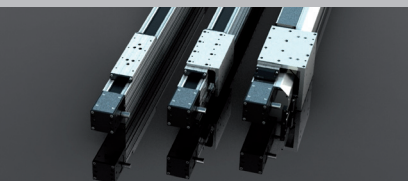
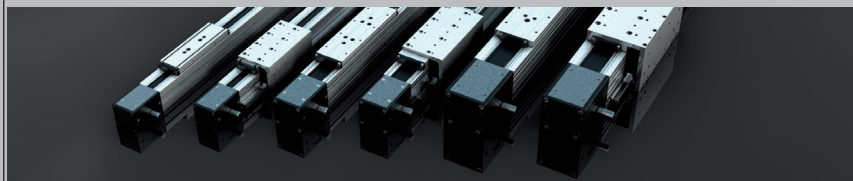
























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The indicated values are standard values.
For special solutions please contact our technical sales team.

			Ball screw drive																Toothed belt drive									
																												
Sizes			PE1	PE2	PE3	PE4	KE2.2	KE2.4	KE3.2	KE3.4	BM4..N	BM4..L/R	BM4..V/W	LM3..N	LM3..L/R	LM4..N	LM4..L/R	LM5..N	LM5..L/R	BM4..N	BM4..L/R	BM4..V/W	LM3..N	LM3..L/R	LM4..N	LM4..L/R	LM5..N	LM5..L/R
																												
Characteristics	Dimensions of cross-section	[mm]	110 x 50	155 x 60	225 x 90	310 x 105	110 x 50		145 x 65		80 x 165	80 x 165	165 x 180	65 x 85	65 x 85	80 x 100	80 x 100	110 x 129	110 x 129	80 x 165	80 x 165	165 x 180	65 x 85	65 x 85	80 x 100	80 x 100	110 x 129	110 x 129
	Max. Travel / Stroke	[mm]	1500	2000	3000	3000	1375	1290	1850	1750	3000			2000		3000		3000		6180			7650		7580		7530	
	Stroke per revolution	[mm]	5 / 10 / 16	5 / 20	5 / 10 / 25	5 / 10 / 32	5 / 10 / 16		5 / 10 / 20		20			5 / 10 / 16		5 / 20		5 / 10 / 32		205			155		205		296	
	Protection		with / without bellows				with / without plastic strapping				with / without steel strapping			with / without steel strapping						with / without steel strapping			with / without steel strapping					
	Repeating accuracy	[mm]	< 0.01				< 0.03				< 0.03			< 0.03						< 0.20 4)			< 0.20 4)					
	Permissible temperatur range	[° C]	+5 bis +80				+5 bis +80				+5 bis +80			+5 bis +80						+5 bis +80			+5 bis +80					
Static	Load ratings Cy _{0 1,2}	[kN]	13.8	42.5	59.2	230.5	35.0	70.0	59.9	119.9	59.9	119.9	119.9	35.0	70.0	59.9	119.9	85.0	170.0	59.9	119.9	119.9	35.0	70.0	59.9	119.9	85.0	170.0
	Load ratings Cz _{0 1}	[kN]	13.8	50.7	70.5	274.5	35.0	70.0	59.9	119.9	59.9	119.9	119.9	35.0	70.0	59.9	119.9	85.0	170.0	59.9	119.9	119.9	35.0	70.0	59.9	119.9	85.0	170.0
	Load ratings Cz _{0 2}	[kN]	13.8	67.6	94.0	366																						
	Axial load ratings Fx ₀	[N]	3400	4300	5500	15000	3400		4300		4300			3400		4300		15000		2200			1560		2200		5280	
	Torques Mx ₀	[Nm]	422	2457	4757	30195	1064	2120	2427	4854	646	3030	4926	286	1456	646	3030	1080	5588	646	3030	4296	286	1457	646	3030	1080	3356
	Torques My ₀	[Nm]	380	2230	4617	26625	204	1400	266	2100	1107	3395	3523	1353	2778	1573	3860	2316	8715	1573	3860	4844	1185	2610	2484	4772	6115	12513
	Torques Mz ₀	[Nm]	380	1872	3877	22365	204	1392	266	2100	1107	3395	3523	1353	2778	1573	3860	2316	8715	1573	3860	4844	1185	2610	2484	4772	6115	12513
Dynamic 1)	Load ratings Cy _{1,2}	[kN]	9.2	29.3	41.4	161.9	18.0	36.0	34.2	68.4	34.2	68.4	68.4	18.0	36.0	34.2	68.4	49.6	99.2	34.2	68.4	68.4	18.0	36.0	34.2	68.4	49.6	99.2
	Load ratings Cz _{1,2}	[kN]	9.2	33.4	46.8	184.0	18.0	36.0	34.2	68.4	34.2	68.4	68.4	18.0	36.0	34.2	68.4	49.6	99.2	34.2	68.4	68.4	18.0	36.0	34.2	68.4	49.6	99.2
	Axial load ratings Fx	[kN]	6950	8000	10000	25000	6950		8000		8000			6950		8000		25000		depending on charge			depending on charge					
	Torques Mx	[Nm]	281	1618	3157	20240	590	1180	1507	3014	400	1868	3060	160	808	400	1868	684	3552	400	1868	3060	160	808	400	1868	684	2136
	Torques My	[Nm]	253	1469	3065	17547	226	1180	202	2044	1069	3056	3150	1030	2016	1446	3432	2290	7659	1446	2432	4210	923	1998	2130	4115	5170	10541
	Torques Mz	[Nm]	253	1290	2691	15708	226	1180	202	2044	1069	3056	3150	880	2016	1446	3432	2290	7659	1446	2432	4210	923	1998	2130	4115	5170	10541
Dynamic	Max. Speed 2)	[m/s]	1.6				1.6				1.6			1.6						5.0			5.0					
	Max. Acceleration 2)	[m/s²]	10.0				50.0				10.0			10.0						50.0			50.0					

1) With a view to durability, loads of less than 20 % of the dynamic load ratings have generally proved to be expedient

2) Higher requirements on request

3) Longer strokes with butt-jointed profiles possible

4) per 1000 mm stroke