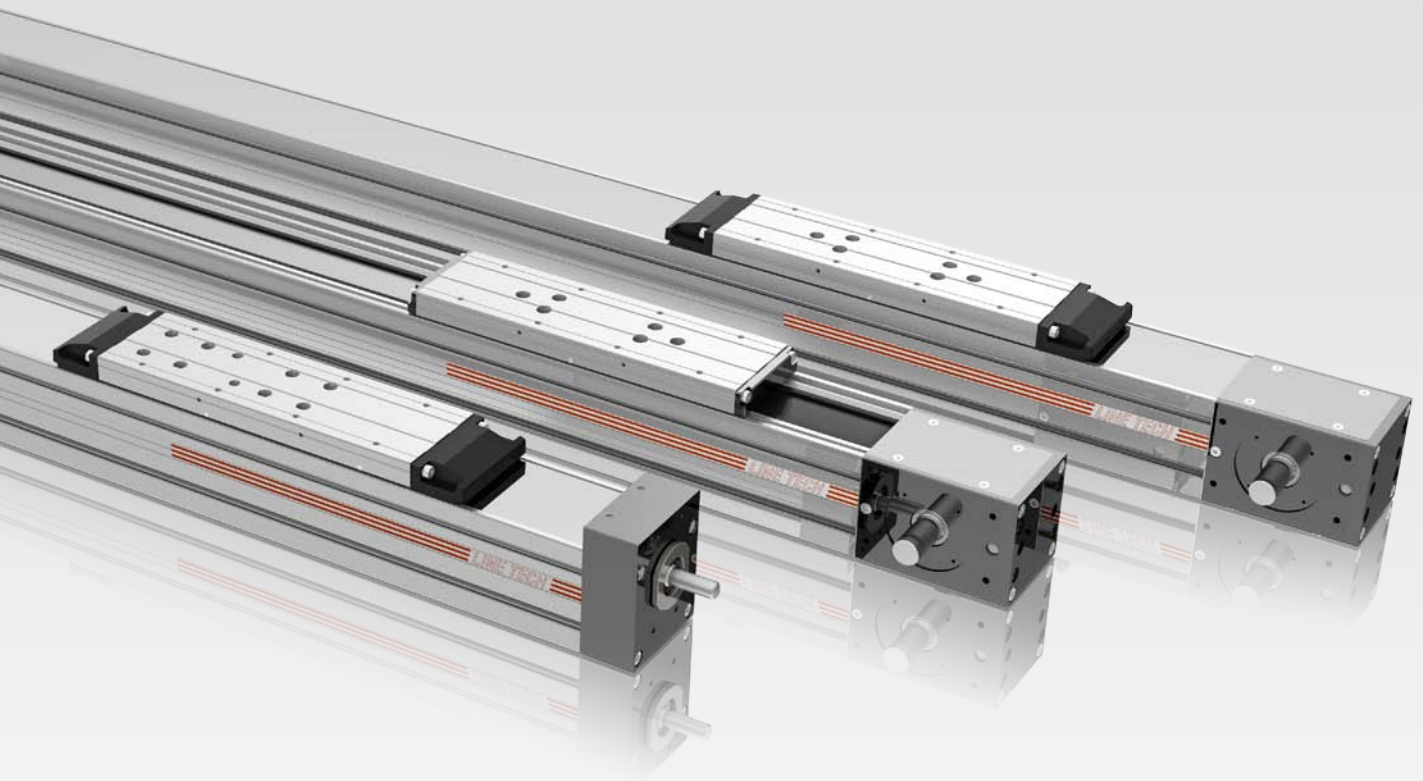
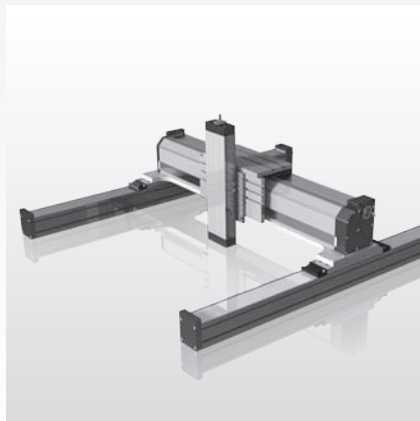




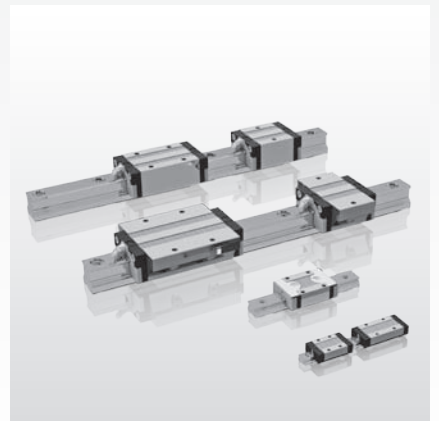
PRODUCT RANGE



Linear Units

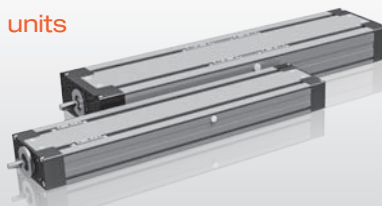
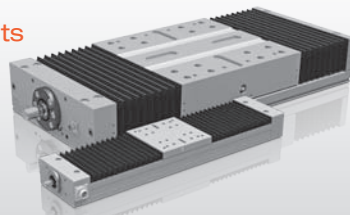


Systems / Assemblies



Components



		Toothed belt drive									Ball screw drive																	
		Linear modules					Bridge modules				Linear modules						Bridge modules			Compact units				Positioning units				
																												
Type / Size		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	BM4..N	BM4..L/R	BM4..V/W	KE2.2	KE2.4	KE3.2	KE3.4	PE1	PE2	PE3	PE4	
Profile																												
Dimensions / Characteristics	Profile cross-section	[mm]	65 x 85	98 x 94	80 x 100	117 x 109	110 x 129	155 x 141	80 x 165	117 x 175	165 x 180	65 x 85	98 x 94	80 x 100	117 x 109	110 x 129	155 x 141	80 x 165	117 x 175	165 x 180	110 x 50		145 x 65		110 x 50	155 x 60	225 x 90	310 x 105
	Max. Travel / Stroke ³⁾	[mm]	7 650		7 580		7 530		6 180		2000		3000		3000		3000		3000		1375	1290	1850	1750	1500	2000	3000	3000
	Stroke per revolution	[mm]	155		205		296		205		5 / 10 / 16		5 / 20		5 / 10 / 32		20		5 / 10 / 16		5 / 10 / 20		5 / 10 / 16		5 / 20	5 / 10 / 25	5 / 10 / 32	
	Protection	[–]	with / without steel strapping						with / without steel strapping			with / without steel strapping						with / without steel strapping			with / without plastic strapping				with / without bellows			
	Repeating accuracy	[mm]	< 0.20 ⁴⁾						< 0.20 ⁴⁾			< 0.03						< 0.03			< 0.03				< 0.01			
	Temperatur range	[°C]	+5...+80						+5...+80			+5...+80						+5...+80			+5...+80				+5...+80			
Static	Load rating $C_{y_{01,2}}$	[kN]	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	59.9	119.9	119.9	35.0	70.0	59.9	119.9	13.8	42.5	59.2	230.5
	Load rating $C_{z_{01}}$	[kN]	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	59.9	119.9	119.9	35.0	70.0	59.9	119.9	13.8	50.7	70.5	274.5
	Load rating $C_{z_{02}}$	[kN]	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	59.9	119.9	119.9	35.0	70.0	59.9	119.9	13.8	67.6	94.0	366
	Axial load rating F_{x_0}	[N]	1 560		2 200		5 280		2 200		3 400		4 300		15 000		4 300		3 400		4 300		3 400	4 300	5 500	15 000		
	Torque M_{x_0}	[Nm]	286	1 457	646	3 030	1 080	3 356	646	3 030	4 296	286	1 456	646	3 030	1 080	5 588	646	3 030	4 926	1 064	2 120	2 427	4 854	422	2 457	4 757	30 195
	Torque M_{y_0}	[Nm]	1 185	2 610	2 484	4 772	6 115	12 513	1 573	3 860	4 844	1 353	2 778	1 573	3 860	2 316	8 715	1 107	3 395	3 523	204	1 400	266	2 100	380	2 230	4 617	26 625
	Torque M_{z_0}	[Nm]	1 185	2 610	2 484	4 772	6 115	12 513	1 573	3 860	4 844	1 353	2 778	1 573	3 860	2 316	8 715	1 107	3 395	3 523	204	1 392	266	2 100	380	1 872	3 877	22 365
Dynamic ¹⁾	Load rating $C_{y_{1,2}}$	[kN]	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	34.2	68.4	68.4	18.0	36.0	34.2	68.4	9.2	29.3	41.4	161.9
	Load rating $C_{z_{1,2}}$	[kN]	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	34.2	68.4	68.4	18.0	36.0	34.2	68.4	9.2	33.4	46.8	184.0
	Axial load rating F_x	[kN]	depending on application						depending on application			6950		8000		25 000		8000		6950		8000		6950	8000	10 000	25 000	
	Torque M_x	[Nm]	160	808	400	1 868	684	2 136	400	1 868	3 060	160	808	400	1 868	684	3 552	400	1 868	3 060	590	1 180	1 507	3 014	281	1 618	3 157	20 240
	Torque M_y	[Nm]	923	1 998	2 130	4 115	5 170	10 541	1 446	2 432	4 210	1 030	2 016	1 446	3 432	2 290	7 659	1 069	3 056	3 150	226	1 180	202	2 044	253	1 469	3 065	17 547
	Torque M_z	[Nm]	923	1 998	2 130	4 115	5 170	10 541	1 446	2 432	4 210	880	2 016	1 446	3 432	2 290	7 659	1 069	3 056	3 150	226	1 180	202	2 044	253	1 290	2 691	15 708
Dynamic	Max. Speed ²⁾	[m/s]	5.0						5.0			1.6						1.6			1.6				1.6			
	Max. Acceleration ²⁾	[m/s²]	50.0						50.0			10.0						10.0			10.0				10.0			

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

¹⁾ Regarding durability we recommend loads of max. 20% of the dynamic load ratings

²⁾ Higher requirements on request

³⁾ Longer strokes possible with butt-jointed profiles

⁴⁾ per 1000 mm stroke



Linear Units, Components and Services

Linear motion is the backbone of modern industrial production plants. For more than 20 years, LINE TECH has specialized in linear technology solutions. LINE TECH is distinguished as a linear technology specialist by our wide range of linear- and positioning systems, by the expertise of our employees and by our wide range of components. Our knowledge and experience, combined with a flexible in-house production, give our customers significant benefit from engineering stages through to start-up.

LINE TECH Linear Units

All LINE TECH linear units are Swiss made at our in-house production facilities and deliver the highest levels of productivity, precision and profitability. Our in-house products are complete linear axes which can be combined into motion assemblies in a modular way.

The basic housing profile is made from aluminum alloy and manufactured by an extrusion process. Rail guides serve as linear guide ways. Toothed belts and ball screws are the most common drive components.

In addition to linear modules, compact units and positioning units, we also offer bridge modules. The product lines can be combined and are available in different sizes to cover a wide range of requirements.

Components

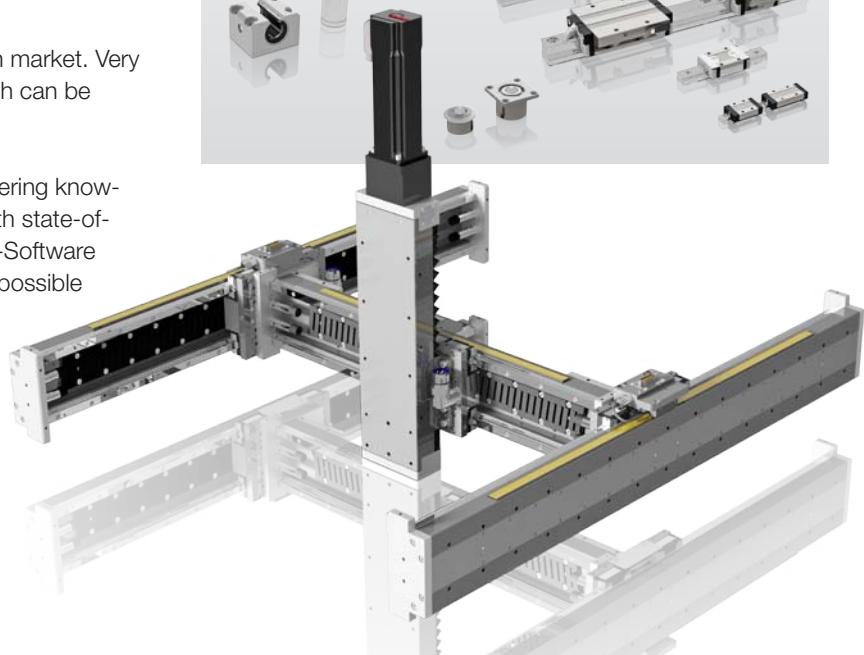
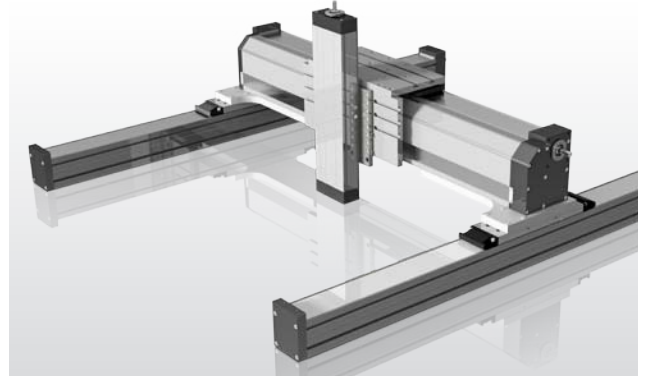
Our product offering is completed off by reliable mechanical and electronic components that meet the highest requirements of modern motion technology and special-purpose engineering.

Engineering, Systems and Assemblies

Flexibility is essential to existence in the modern market. Very often customers look for custom solutions which can be incorporated into existing systems.

This is where our core competence, our engineering know-how, comes to the fore. Our engineers work with state-of-the-art aides such as 3D-CAD, Finite-Elements-Software or special calculation tools to develop the best possible solutions.

The modular construction of our linear units makes flexible combinations or adaption possible. LINE TECH develops client-specific assemblies and complete systems for various application types. Thanks to our in-house production, we are able to respond quickly and flexibly to our customer's requirements.



Representatives

Austria



KML Linear Motion
Technology GmbH
Daumegasse 1-3
1100 Wien
Austria

Tel. +43 1 641 50 30 0
Fax +43 1 641 50 30 50

office@kml-technology.com
www.kml-technology.com

Germany



KML Linear Motion
Technology GmbH
Daumegasse 1-3
1100 Wien
Austria

Tel. +43 1 641 50 30 0
Fax +43 1 641 50 30 50

office@kml-technology.com
www.kml-technology.com

Italy



Mondial S.p.A.
via G. Keplero 18
20124 Milano
Italia

Tel. +39 026 681 01
Fax +39 026 681 0252

mkt@mondial.it
www.mondial.it

Scandinavia

AluFlex LinjärTech AB
Din naturliga samarbetspartner på linjärsystem

AluFlex LinjärTech AB
Lilla Garnisonsgatan 34
254 67 Helsingborg
Svenska

Tel. +46 42 380 25 0
Fax +46 42 380 25

info@aluflex.se
www.aluflex.se

LINE TECH AG
Europastrasse 19
8152 Glattbrugg
Schweiz

Tel. +41 43 211 68 68
Fax +41 43 211 68 69

info@linetech.ch

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