

Order No.	l_1	Stroke	Static load C_0 kN max.	w_1	l_2	h_1	Roller	l_{10}	l_{11}	l_3	l_4	l_5	l_6	Weight kg
L1023.100-265	410	263	78.9	100	283	45	6.0	-	60	50	390	-	290	13.16
L1023.100-365	510	365	84.6	100	390	45	6.0	-	60	50	490	-	390	16.52
L1023.145-130	210	130	72.7	145	156	60	9.0	-	-	-	100	-	-	13.11
L1023.145-180	310	180	101.8	145	206	60	9.0	-	-	100	200	-	-	19.44
L1023.145-350	410	350	116.3	145	376	60	9.0	155	-	100	300	100	-	25.65
L1023.145-450	510	450	145.4	145	476	60	9.0	155	-	100	400	200	-	31.97
L1023.145-550	610	610	160.0	145	576	60	9.0	155	-	100	500	300	-	38.22

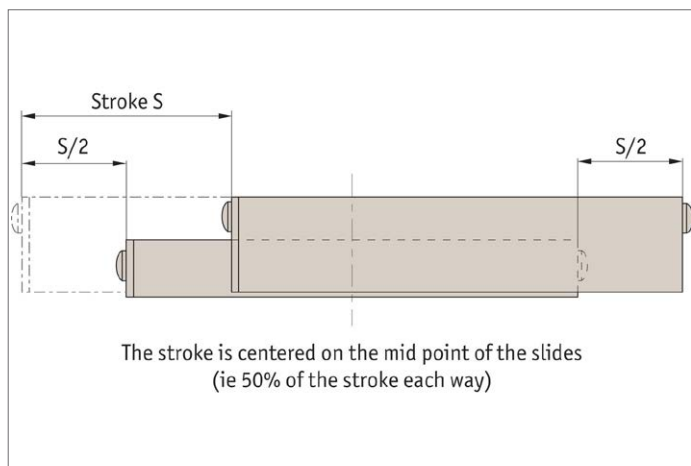
Order No.	l_7	l_8	l_9	w_2	w_3	w_4	w_5	h_2	h_3	h_4	d_1	Allowable load kN max.	Dyn. load C kN max.	Moment M_x Nm max.	Moment M_y Nm max.	Moment M_z Nm max.
L1023.030-012	12.5	2.5	3.5	10	10	22	4	11	10	5.5	2.55	0.19	0.38	2.6	1.2	1.4
L1023.030-018	12.5	4.5	3.5	10	10	22	4	11	10	5.5	2.55	0.28	0.52	3.9	2.6	3.0
L1023.030-025	12.5	6	3.5	10	10	22	4	11	10	5.5	2.55	0.38	0.65	5.2	4.6	5.2
L1023.030-032	12.5	7.5	3.5	10	10	22	4	11	10	5.5	2.55	0.48	0.78	6.5	7.2	7.9
L1023.030-040	12.5	8.5	3.5	10	10	22	4	11	10	5.5	2.55	0.57	0.90	7.8	10.4	11.2
L1023.030-045	12.5	11	3.5	10	10	22	4	11	10	5.5	2.55	0.77	1.1	10.4	18.4	17.3
L1023.030-050	12.5	13.5	3.5	10	10	22	4	11	10	5.5	2.55	0.86	1.2	11.7	23.3	22.0
L1023.040-018	17.5	3	5	15	12.5	30	5	8	13	6.5	3.5	0.39	0.89	7.0	3.1	3.9
L1023.040-030	17.5	4.5	5	15	12.5	30	5	14	14	5.5	3.5	1.5	2.9	42.6	22.8	26.6
L1023.040-040	17.5	7	5	15	12.5	30	5	14	14	5.5	3.5	1.5	2.9	42.6	22.8	19.0
L1023.040-050	17.5	9.5	5	15	12.5	30	5	14	14	5.5	3.5	2.5	4.3	71.0	63.4	57.1
L1023.040-060	17.5	12	5	15	12.5	30	5	14	14	5.5	3.5	2.0	3.6	56.8	40.6	45.7
L1023.040-070	17.5	14.5	5	15	12.5	30	5	14	14	5.5	3.5	3.0	5.0	85.2	91.3	98.9
L1023.040-080	17.5	17	5	15	12.5	30	5	14	14	5.5	3.5	3.0	5.0	85.2	91.3	83.7
L1023.060-030	27.5	5.5	10	25	17.5	40	10	18.5	17.5	9	4.5	1.5	2.9	46.6	22.8	26.6
L1023.060-045	27.5	10.8	10	25	17.5	40	10	18.5	17.5	9	4.5	2.5	4.3	71.0	63.4	57.1
L1023.060-060	27.5	15.5	10	25	17.5	40	10	18.5	17.5	9	4.5	3.5	5.6	99.5	124	115
L1023.060-075	27.5	20.8	10	25	17.5	40	10	18.5	17.5	9	4.5	4.0	6.2	113	162	172
L1023.060-090	27.5	25.5	10	25	17.5	40	10	18.5	17.5	9	4.5	5.0	7.4	142	253	266
L1023.060-105	27.5	30.5	10	25	17.5	40	10	18.5	17.5	9	4.5	6.0	8.6	170	365	350
L1023.060-130	27.5	30.5	10	25	17.5	40	10	18.5	17.5	9	4.5	6.6	9.1	184	428	445
L1023.080-050	42.5	10.5	22.5	40	20	60	10	24	22	10.5	5.5	3.1	6.6	124	87	76
L1023.080-075	42.5	18	22.5	40	20	60	10	24	22	10.5	5.5	4.6	9.0	187	196	180
L1023.080-105	42.5	23	22.5	40	20	60	10	24	22	10.5	5.5	5.4	10.2	218	267	286
L1023.080-135	42.5	28	22.5	40	20	60	10	24	22	10.5	5.5	7.0	12.4	280	442	466
L1023.080-155	42.5	38	22.5	40	20	60	10	24	22	10.5	5.5	8.5	14.6	343	660	690
L1023.080-185	42.5	43	22.5	40	20	60	10	24	22	10.5	5.5	10.1	16.6646	405	922	957
L1023.080-215	42.5	48	22.5	40	20	60	10	24	22	10.5	5.5	11.6	18.6	467	1228	1187
L1023.100-060	55	16.5	10	50	25	60	20	31	29	13	7	7.0	13.9	315	252	221
L1023.100-095	55	23.5	10	50	25	60	20	31	29	13	7	8.7	16.5	394	394	434
L1023.100-130	55	31	10	50	25	60	20	31	29	13	7	12.2	21.5	552	773	828
L1023.100-165	55	38.5	10	50	25	60	20	31	29	13	7	15.7	26.2	710	1279	1207
L1023.100-200	55	46	10	50	25	60	20	31	29	13	7	19.2	30.7	868	1910	1823
L1023.100-235	55	53.5	10	50	25	60	20	31	29	13	7	22.8	25.0	1026	2668	2565
L1023.100-265	55	63.5	10	50	25	60	20	31	29	13	7	26.3	39.1	1184	3552	3434
L1023.100-365	55	60	10	50	25	60	20	31	29	13	7	28.2	45.1	1269	4568	4441.
L1023.145-130	105	27	55	85	30	90	27.5	43	38.5	16	9	24.2	72.7	1745	1697	1527
L1023.145-180	105	52	55	85	30	90	27.5	43	38.5	16	9	33.9	101.8	2444	3326	3564
L1023.145-350	105	12	55	85	30	90	27.5	43	38.5	16	9	38.7	116.3	2793	4345	4073
L1023.145-450	105	17	55	85	30	90	27.5	43	38.5	16	9	48.4	145.4	3491	6789	6449
L1023.145-550	105	17	55	85	30	90	27.5	43	38.5	16	9	53.3	160.0	3840	8214	8588

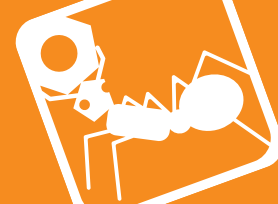


Stainless Cross Roller Slides

flanged, smaller sizes

Linear Tables





Size + Weight

For light/medium loads

L1020-L1037

Ball roller versions



L1024 - L1038

Cross roller versions



L1020 - L1026

Stainless steel versions

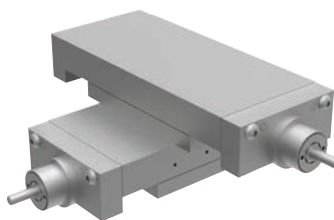


L1022 - L1023

For heavy duty loads and motorised

L3000-L3500

Needle roller & dovetail stage



L3170 - L3194

Motorised stages

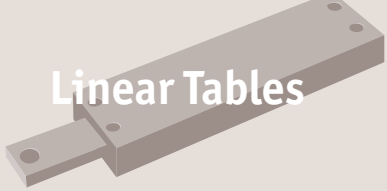


L3500 - L3510

Micrometer driven stages

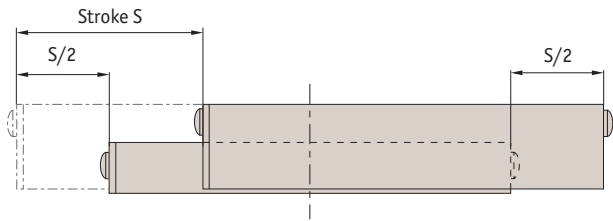


L3100 - L3123



Factors affecting stage selections...

- Size and weight of load
- Moment loads
- Stroke required
- Accuracy required
- Usage conditions of water, chemicals, shock loads etc.



Generally ball slides are less expensive but cross roller slides can carry 8 to 10 times the load of ball slides.

The stroke is centred on the mid point of the slides (i.e. 50% of the stroke each way).

A selection...		
L1020 Crossed roller tables  Steel and aluminium, accuracy typically 5µ.	L1022/23 Cross roller table  Stainless Steel, accuracy typically 3µ.	L1024 Ball slide tables  Aluminium, accuracy typically 12µ.
L1026 Crossed roller slide tables  Aluminium, accuracy typically 5µ.	L1028 Precision ball slide tables  Aluminium, accuracy typically 3µ.	L1029 Precision crossed roller tables  Aluminium, accuracy typically 3µ.
L1034 Flanged ball slide tables - precision  With flange accuracy to 1µ.	L1038 Anti-creep ball slide tables  Special anti-creep function prevents cage misalignment.	L1039 Non-magnetic ball slide  Non-magnetic accuracy typically 3µ.





Steel - L1020

- Standard steel / cast iron



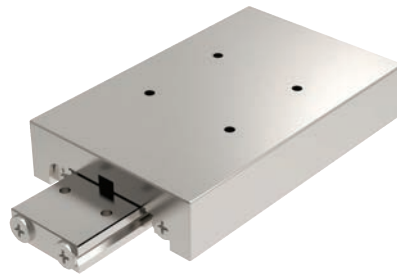
Aluminium - L1021

- Lower weight, lower profile
- Good for high accelerations



Stainless steel - L1022 + L1023

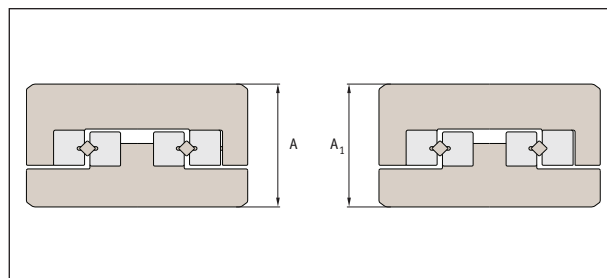
- Stainless steel (440C+Ni) corrosion resistant



Rated life

$$L \text{ (Km)} = \left(\frac{F_t \cdot C}{F_w \cdot P_c} \right)^{3.33} \times 100$$

- F_t = temperature factor
 F_w = load factor
 C = basic dynamic load (kN) see tables
 P_c = radial load (kN)

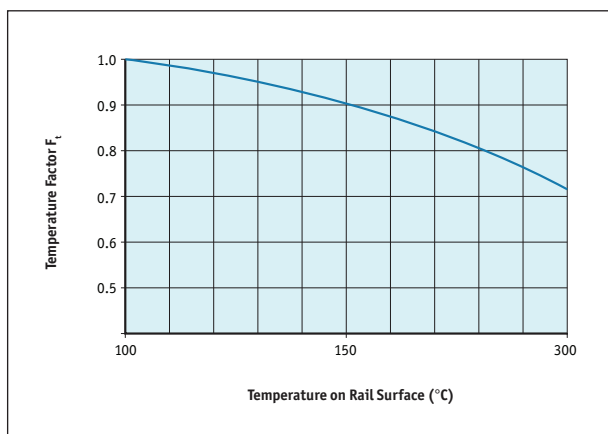


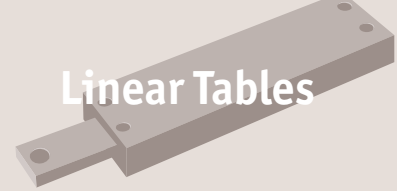
Height tolerance:

- Height $\pm 100\mu$
- Motorised parts $\pm 10\mu$
- Strokes from 10 to 950mm
- Loads to 48kN

Load factor F_w

Shock	Speed	F_w
None	Very slow	1.0 - 1.2
Small	Slow	1.2 - 1.5





Technical accuracy measurments

- High accuracy.
- Low friction: virtually frictionless. Providing stable performance at lower high speeds.
- Rigid: incorporating cross roller linear rails to provide high load capacity as well as high moment load capacity.
- Installation: easy to install with pre-drilled holes in carriage and base. Ensure mounting surface faces are accurately machined.

Table accuracy (μ)			Rail accuracy (μ)		
Table length	Carriage top parallelism	Carriage side parallelism	N tolerance	M tolerance	Straightness
0-50	2	4	-15 -35	-30 -70	2
50-100	2	5			2
100-150	3	6			3
150-200	3	7			3
200-250	3	7			3
250-300	3	7			3
300-350	4	8			4
350-400	4	8			4
400-450	4	8			4
450-500	4	8			4
500-550	4	9			4
550-600	4	9			4

