

### Size + Weight

For light/medium loads

L1020-L1037

Ball roller versions



L1024 - L1038

Cross roller versions



L1020 - L1026

Stainless steel versions

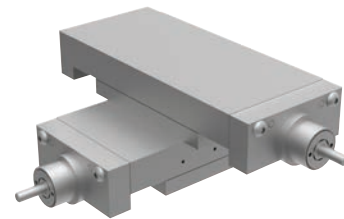


L1022 - L1023

For heavy duty loads and motorised

L3000-L3500

Needle roller & dovetail stage



L3170 - L3194

Motorised stages



L3500 - L3510

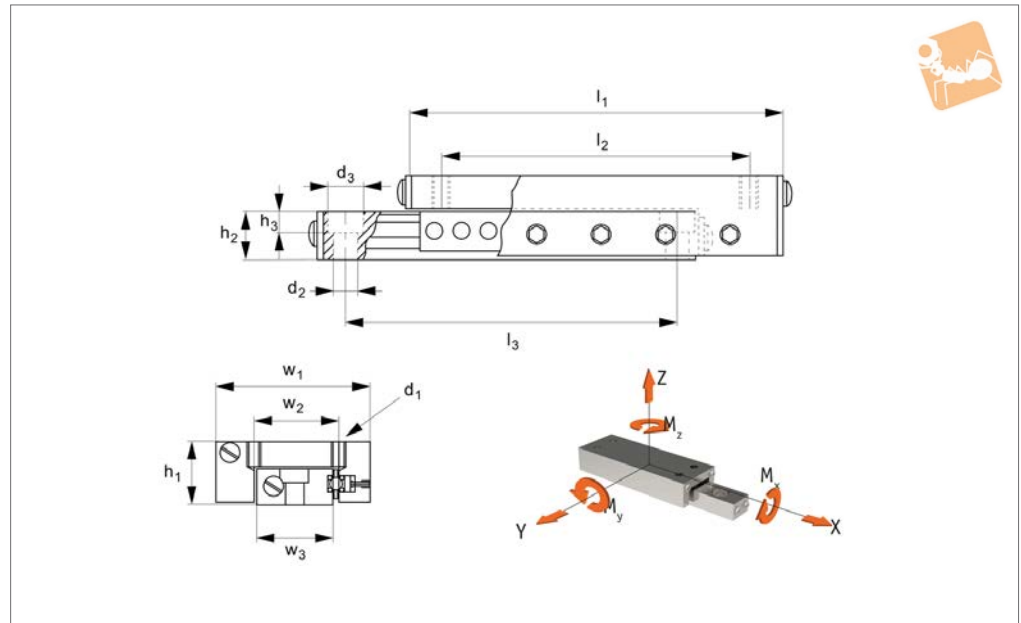
Micrometer driven stages



L3100 - L3123



## L1024



### Material

Aluminium carriage clear anodized, base black anodized.  
Hardened steel shafts and balls, mild steel end caps.

### Technical Notes

Straight line accuracy: 13µ/25mm travel.  
Positional repeatability: 5µ.  
Coefficient of friction 0,003 typical.

### Tips

Stroke is centred on the mid-point of the slides (ie 50% of total stroke each way).

Order No.	Stroke	Load kg max.	w <sub>1</sub>	l <sub>1</sub>	h <sub>1</sub>	l <sub>2</sub>	w <sub>2</sub>	h <sub>2</sub>	w <sub>3</sub>	l <sub>3</sub>	Weight g
L1024.010-008	8	0.34	9.5	13.3	5.8	6.0	4.0	3.4	4.0	6.0	2
L1024.010-013	13	0.68	9.5	19.0	5.8	13.0	4.0	3.4	4.0	10.0	3
L1024.010-025	25	0.68	9.5	32.0	5.8	26.0	4.0	3.4	4.0	20.0	4
L1024.010-038	38	0.68	9.5	44.0	5.8	37.0	4.0	3.4	4.0	30.0	7
L1024.014-013	13	2	14.2	27.0	8.0	15.0	6.0	4.7	6.4	19.0	9
L1024.014-025	25	4	14.2	52.0	8.0	41.0	6.0	4.7	6.4	35.0	14
L1024.014-050	50	5	14.2	78.0	8.0	66.0	6.0	4.7	6.4	60.0	23
L1024.014-075	75	6	14.2	103.0	8.0	92.0	6.0	4.7	6.4	86.0	31
L1024.014-100	100	8	14.2	128.0	8.0	117.0	6.0	4.7	6.4	89.0	34
L1024.014-127	127	8	14.2	154.0	8.0	142.0	6.0	4.7	6.4	114.0	43
L1024.019-013	13	4	19.0	27.0	10.4	15.0	9.0	6.3	9.5	19.0	11
L1024.019-025	25	5	19.0	52.0	10.4	41.0	9.0	6.3	9.5	35.0	26
L1024.019-050	50	5	19.0	78.0	10.4	66.0	9.0	6.3	9.5	60.0	37
L1024.019-075	75	6	19.0	103.0	10.4	92.0	9.0	6.3	9.5	86.0	48
L1024.019-100	100	7	19.0	128.0	10.4	117.0	9.0	6.3	9.5	89.0	60
L1024.019-127	127	8	19.0	154.0	10.4	142.0	9.0	6.3	9.5	114.0	71
L1024.025-013	13	5	25.4	40.0	12.7	32.0	10.0	6.3	12.7	32.0	34
L1024.025-025	25	5	25.4	65.0	12.7	57.0	10.0	6.3	12.7	57.0	48
L1024.025-038	38	6	25.4	78.0	12.7	65.0	10.0	6.3	12.7	65.0	54
L1024.025-050	50	7	25.4	90.0	12.7	82.0	10.0	6.3	12.7	82.0	62
L1024.025-075	75	8	25.4	116.0	12.7	108.0	10.0	6.3	12.7	108.0	142
L1024.027-019	19	7	26.9	40.0	13.4	32.0	10.0	7.9	12.7	28.0	37
L1024.027-038	38	8	26.9	65.0	13.4	57.0	10.0	7.9	12.7	54.0	65
L1024.027-050	50	9	26.9	90.0	13.4	82.0	10.0	7.9	12.7	79.0	85
L1024.027-075	75	11	26.9	116.0	13.4	102.0	10.0	7.9	12.7	82.0	147
L1024.027-100	100	14	26.9	152.0	13.4	140.0	10.0	7.9	12.7	102.0	170
L1024.027-150	150	16	26.9	203.0	13.4	190.0	10.0	7.9	12.7	127.0	198
L1024.027-200	200	18	26.9	254.0	13.4	240.0	10.0	7.9	12.7	178.0	227
L1024.038-025	25	7	38.0	51.0	15.8	35.0	16.0	8.6	19.0	37.0	82
L1024.038-050	50	9	38.0	76.0	15.8	60.0	16.0	8.6	19.0	60.0	122
L1024.038-075	75	11	38.0	102.0	15.8	85.0	16.0	8.6	19.0	85.0	170
L1024.038-088	88	14	38.0	127.0	15.8	110.0	16.0	8.6	19.0	85.0	190

# Ball Slide Assemblies

standard precision

## Linear Tables



Order No.	Stroke	Load kg max.	w <sub>1</sub>	l <sub>1</sub>	h <sub>1</sub>	l <sub>2</sub>	w <sub>2</sub>	h <sub>2</sub>	w <sub>3</sub>	l <sub>3</sub>	Weight g
L1024.038-100	100	16	38.0	152.0	15.8	136.0	16.0	8.6	19.0	100.0	232
L1024.038-150	150	20	38.0	203.0	15.8	186.0	16.0	8.6	19.0	128.0	261
L1024.038-200	200	25	38.0	254.0	15.8	238.0	16.0	8.6	19.0	178.0	326
L1024.044-025	25	9	44.0	51.0	19.0	35.0	20.0	10.2	22.2	38.0	113
L1024.044-038	38	14	44.0	70.0	19.0	55.0	20.0	10.2	22.2	55.0	170
L1024.044-050	50	19	44.0	83.0	19.0	65.0	20.0	10.2	22.2	65.0	184
L1024.044-075	75	24	44.0	102.0	19.0	85.0	20.0	10.2	22.2	85.0	227
L1024.044-100	100	27	44.0	152.0	19.0	140.0	20.0	10.2	22.2	100.0	335
L1024.044-150	150	34	44.0	203.0	19.0	190.0	20.0	10.2	22.2	126.0	445
L1024.044-200	200	41	44.0	254.0	19.0	240.0	20.0	10.2	22.2	178.0	553
L1024.067-025	25	14	66.5	67.0	25.4	54.0	35.0	15.9	38.1	54.0	283
L1024.067-038	38	16	66.5	67.0	25.4	42.0	35.0	15.9	38.1	42.0	283
L1024.067-050	50	28	66.5	102.0	25.4	75.0	35.0	15.9	38.1	75.0	425
L1024.067-075	75	40	66.5	127.0	25.4	100.0	35.0	15.9	38.1	100.0	590
L1024.067-100	100	54	66.5	152.0	25.4	125.0	35.0	15.9	38.1	125.0	771
L1024.067-127	127	61	66.5	203.0	25.4	175.0	35.0	15.9	38.1	187.0	879
L1024.067-150	150	68	66.5	229.0	25.4	75.0 (x2)	35.0	15.9	38.1	178.0	498
L1024.067-228	228	84	66.5	305.0	25.4	75.0 (x3)	35.0	15.9	38.1	254.0	1318
L1024.067-304	304	93	66.5	381.0	25.4	75.0 (x4)	35.0	15.9	38.1	330.0	1644

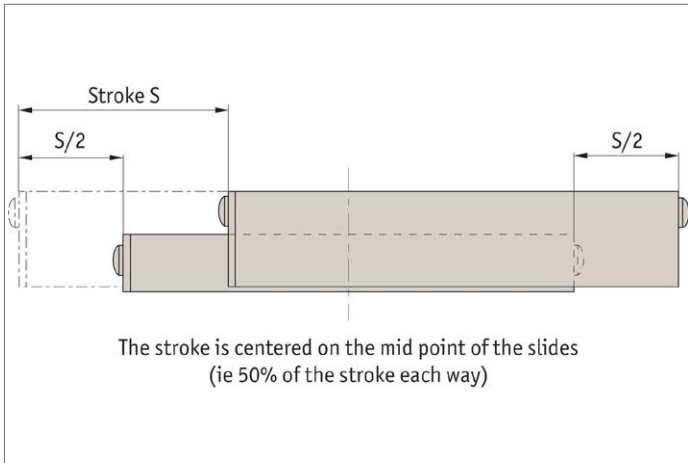
Order No.	d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub>	h <sub>3</sub>	Counterbore screw size	Moment M <sub>x</sub> Nm max.	Moment M <sub>y</sub> Nm max.	Moment M <sub>z</sub> Nm max.
L1024.010-008	M2	M2	-	-	n/a	0.02	0.01	0.01
L1024.010-013	M2	M2	-	-	n/a	0.03	0.01	0.02
L1024.010-025	M2	M2	-	-	n/a	0.04	0.01	0.04
L1024.010-038	M2	M2	-	-	n/a	0.06	0.01	0.05
L1024.014-013	M2	2.2	4.0	2.2	M2	0.1	0.1	0.1
L1024.014-025	M2	2.2	4.0	2.2	M2	0.5	0.1	0.5
L1024.014-050	M2	2.2	4.0	2.2	M2	1.0	0.2	1.0
L1024.014-075	M2	2.2	4.0	2.2	M2	1.6	0.2	1.5
L1024.014-100	M2	2.2	4.0	2.2	M2	2.1	0.2	2.
L1024.014-127	M2	2.2	4.0	2.2	M2	2.7	0.3	2.6
L1024.019-013	M3	3.5	6.1	3.4	M3	0.2	0.2	0.2
L1024.019-025	M3	3.5	6.1	3.4	M3	0.6	0.2	0.5
L1024.019-050	M3	3.5	6.1	3.4	M3	1.0	0.3	1.0
L1024.019-075	M3	3.5	6.1	3.4	M3	1.6	0.3	1.5
L1024.019-100	M3	3.5	6.1	3.4	M3	2.1	0.3	2.0
L1024.019-127	M3	3.5	6.1	3.4	M3	2.7	0.4	2.6
L1024.025-013	M4	3.5	6.1	3.4	M3	2.4	0.3	0.4
L1024.025-025	M4	3.5	6.1	3.4	M3	1.0	0.3	1.0
L1024.025-038	M4	3.5	6.1	3.4	M3	1.2	0.4	1.2
L1024.025-050	M4	3.5	6.1	3.4	M3	1.6	0.4	1.5
L1024.025-075	M4	3.5	6.1	3.4	M3	2.4	0.5	2.3
L1024.027-019	M4	4.6	8.1	4.4	M4	0.5	0.4	0.5
L1024.027-038	M4	4.6	8.1	4.4	M4	1.3	0.5	1.2
L1024.027-050	M4	4.6	8.1	4.4	M4	2.1	0.6	2.0
L1024.027-075	M4	4.6	8.1	4.4	M4	3.3	0.7	3.1
L1024.027-100	M4	4.6	8.1	4.4	M4	5.3	0.4	5.1
L1024.027-150	M4	4.6	8.1	4.4	M4	7.9	1.0	7.5
L1024.027-200	M4	4.6	8.1	4.4	M4	10.9	1.2	10.3
L1024.038-025	M4	4.6	8.1	4.4	M4	0.7	0.6	0.7
L1024.038-050	M4	4.6	8.1	4.4	M4	1.4	0.8	1.4
L1024.038-075	M4	4.6	8.1	4.4	M4	2.4	1.0	2.3
L1024.038-088	M4	4.6	8.1	4.4	M4	3.9	1.2	3.7
L1024.038-100	M4	4.6	8.1	4.4	M4	5.8	1.5	5.5
L1024.038-150	M4	4.6	8.1	4.4	M4	9.6	1.9	9.1
L1024.038-200	M4	4.6	8.1	4.4	M4	14.3	2.3	13.6
L1024.044-025	M4	4.6	8.1	4.4	M4	0.9	1.0	0.9
L1024.044-038	M4	4.6	8.1	4.4	M4	2.1	1.4	2.0
L1024.044-050	M4	4.6	8.1	4.4	M4	3.5	2.0	3.3
L1024.044-075	M4	4.6	8.1	4.4	M4	4.9	2.5	4.7
L1024.044-100	M4	4.6	8.1	4.4	M4	10.0	2.9	10.0
L1024.044-150	M4	4.6	8.1	4.4	M4	16.0	3.6	15.2
L1024.044-200	M4	4.6	8.1	4.4	M4	23.4	4.3	22.3
L1024.067-025	M5	5.8	10.0	5.3	M5	2.0	2.5	1.9
L1024.067-038	M5	5.8	10.0	5.3	M5	2.0	2.9	1.9

LINEAR TABLES



Order No.	d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub>	h <sub>3</sub>	Counterbore screw size	Moment M <sub>x</sub> Nm max.	Moment M <sub>y</sub> Nm max.	Moment M <sub>z</sub> Nm max.
L1024.067-050	M5	5.8	10.0	5.3	M5	7.2	5.11	6.9
L1024.067-075	M5	5.8	10.0	5.3	M5	13.1	7.2	12.5
L1024.067-100	M5	5.8	10.0	5.3	M5	21.5	9.7	20.5
L1024.067-127	M5	5.8	10.0	5.3	M5	33.6	11.1	32.0
L1024.067-150	M5	5.8	10.0	5.3	M5	42.3	12.3	40.3
L1024.067-228	M5	5.8	10.0	5.3	M5	64.5	15.2	61.4
L1024.067-304	M5	5.8	10.0	5.3	M5	85.1	16.8	81.0

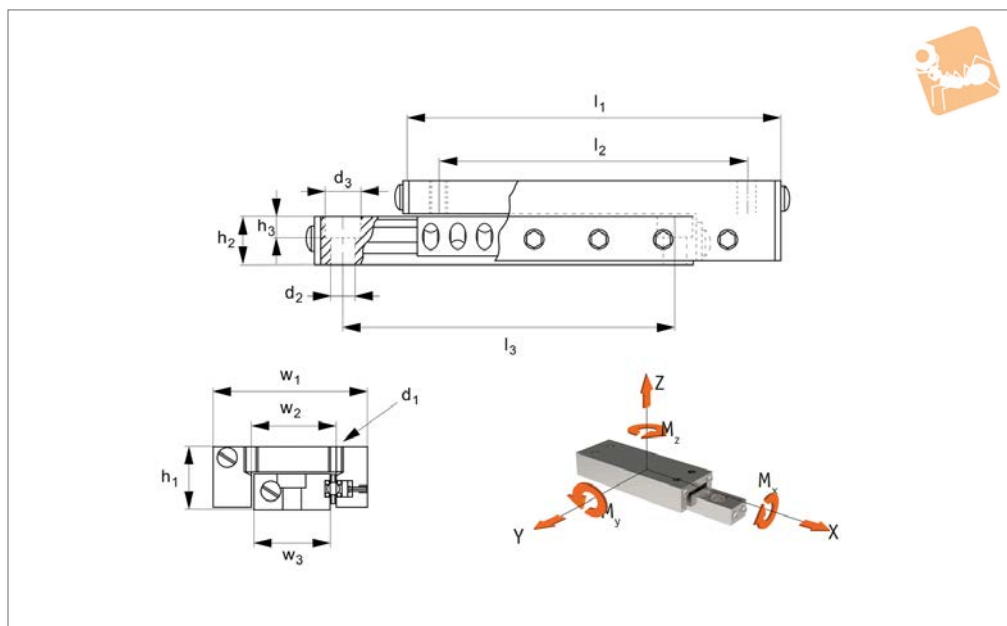
LINEAR TABLES



# Crossed Roller Slides

standard precision

## Linear Tables



## L1026

LINEAR TABLES

### Material

Aluminium carriage and base (black anodized).

Hardened steel rods and rollers, stainless steel end caps.

### Technical Notes

Straight line accuracy:  $3\mu/25\text{mm}$  of travel.

Positional repeatability:  $3\mu$ .

Coefficient of friction: 0,003 typical.

The slides are lightly lubricated during assembly.

Additional lubrication is required for speeds above 30m/min and is advisable at lower speeds where high loads are applied in continuous duty applications.

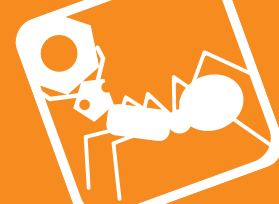
The slides should be mounted on flat surfaces to provide full support to the base.

At rated load capacity and moderate speeds, expected life is 250km of travel. At half the rated load the expected life is 2,500km.

### Tips

Stroke is centred on the mid-point of the slides (ie 50% of total stroke each way).

Order No.	Stroke	Load kg max.	$w_1$	$l_1$	$h_1$	$l_2$	$w_2$	$h_2$	$w_3$	$l_3$	Weight g
L1026.014-013	13	14	14.2	27.0	8.0	15.0	6.0	4.7	6.4	19.0	11
L1026.014-025	25	25	14.2	52.0	8.0	41.0	6.0	4.7	6.4	35.0	17
L1026.014-050	50	30	14.2	78.0	8.0	66.0	6.0	4.7	6.4	60.0	26
L1026.014-075	75	32	14.2	103.0	8.0	92.0	6.0	4.7	6.4	86.0	34
L1026.014-100	100	36	14.2	129.0	8.0	117.0	6.0	4.7	6.4	89.0	37
L1026.014-127	127	41	14.2	154.0	8.0	143.0	6.0	4.7	6.4	114.0	45
L1026.019-013	13	22	19.0	27.0	10.4	15.0	9.0	6.3	9.5	19.0	14
L1026.019-025	25	35	19.0	52.0	10.4	41.0	9.0	6.3	9.5	35.0	28
L1026.019-050	50	42	19.0	78.0	10.4	66.0	9.0	6.3	9.5	60.0	40
L1026.019-075	75	44	19.0	103.0	10.4	92.0	9.0	6.3	9.5	86.0	51
L1026.019-100	100	47	19.0	129.0	10.4	117.0	9.0	6.3	9.5	89.0	62
L1026.019-127	127	49	19.0	154.0	10.4	142.0	9.0	6.3	9.5	114.0	74
L1026.025-013	13	32	25.4	40.0	12.7	32.0	10.0	6.3	12.7	32.0	37
L1026.025-025	25	35	25.4	65.0	12.7	57.0	10.0	6.3	12.7	57.0	51
L1026.025-038	38	35	25.4	78.0	12.7	65.0	10.0	6.3	12.7	65.0	57
L1026.025-050	50	38	25.4	90.0	12.7	82.0	10.0	6.3	12.7	82.0	65
L1026.025-075	75	41	25.4	116.0	12.7	108.0	10.0	6.3	12.7	108.0	79
L1026.027-019	19	50	26.9	40.0	13.4	32.0	10.0	7.9	12.7	28.0	40
L1026.027-038	38	60	26.9	65.0	13.4	57.0	10.0	7.9	12.7	54.0	68
L1026.027-050	50	100	26.9	90.0	13.4	82.0	10.0	7.9	12.7	79.0	88
L1026.027-075	75	120	26.9	116.0	13.4	102.0	10.0	7.9	12.7	82.0	150
L1026.027-100	100	129	26.9	152.0	13.4	140.0	10.0	7.9	12.7	102.0	173
L1026.027-150	150	135	26.9	203.0	13.4	190.0	10.0	7.9	12.7	127.0	204
L1026.027-200	200	145	26.9	254.0	13.4	240.0	10.0	7.9	12.7	178.0	232
L1026.038-025	25	59	38.0	51.0	15.8	35.0	16.0	8.6	19.0	37.0	85
L1026.038-050	50	79	38.0	76.0	15.8	60.0	16.0	8.6	19.0	60.0	128
L1026.038-075	75	79	38.0	102.0	15.8	85.0	16.0	8.6	19.0	85.0	176



LINEAR TABLES

Order No.	Stroke	Load kg max.	w <sub>1</sub>	l <sub>1</sub>	h <sub>1</sub>	l <sub>2</sub>	w <sub>2</sub>	h <sub>2</sub>	w <sub>3</sub>	l <sub>3</sub>	Weight g
L1026.038-089	89	95	38.0	127.0	15.8	111.0	16.0	8.6	19.0	85.0	196
L1026.038-100	100	139	38.0	152.0	15.8	136.0	16.0	8.6	19.0	100.0	238
L1026.038-150	150	163	38.0	203.0	15.8	186.0	16.0	8.6	19.0	127.0	266
L1026.038-200	200	187	38.0	254.0	15.8	238.0	16.0	8.6	19.0	178.0	332
L1026.044-025	25	59	44.0	51.0	19.0	35.0	20.0	10.2	22.2	38.0	116
L1026.044-038	38	68	44.0	70.0	19.0	55.0	20.0	10.2	22.2	55.0	173
L1026.044-050	50	79	44.0	83.0	19.0	65.0	20.0	10.2	22.2	65.0	187
L1026.044-075	75	79	44.0	102.0	19.0	85.0	20.0	10.2	22.2	85.0	232
L1026.044-100	100	139	44.0	152.0	19.0	140.0	20.0	10.2	22.2	100.0	343
L1026.044-150	150	170	44.0	203.0	19.0	190.0	20.0	10.2	22.2	127.0	454
L1026.044-200	200	204	44.0	254.0	19.0	240.0	20.0	10.2	22.2	178.0	561
L1026.067-025	25	102	66.6	67.0	25.4	54.0	35.0	15.9	38.1	54.0	292
L1026.067-038	38	119	66.6	67.0	25.4	42.0	35.0	15.9	38.1	42.0	292
L1026.067-050	50	158	66.6	102.0	25.4	75.0	35.0	15.9	38.1	75.0	454
L1026.067-075	75	198	66.6	127.0	25.4	100.0	35.0	15.9	38.1	100.0	635
L1026.067-100	100	198	66.6	152.0	25.4	125.0	35.0	15.9	38.1	125.0	816
L1026.067-127	127	215	66.6	203.0	25.4	175.0	35.0	15.9	38.1	187.0	936
L1026.067-150	150	317	66.6	229.0	25.4	75.0	35.0	15.9	38.1	178.0	1089
L1026.067-228	228	336	66.6	305.0	25.4	75.0	35.0	15.9	38.1	254.0	1366
L1026.067-304	304	354	66.6	381.0	25.4	75.0	35.0	15.9	38.1	330.0	1729

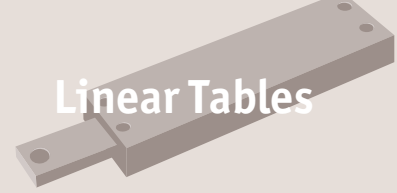
Order No.	d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub>	h <sub>3</sub>	Counterbore screw size	Moment M <sub>x</sub> Nm max.	Moment M <sub>y</sub> Nm max.	Moment M <sub>z</sub> Nm max.
L1026.014-013	M2	2.2	4.0	2.2	M2	0.4	0.8	0.8
L1026.014-025	M2	2.2	4.0	2.2	M2	0.7	2.7	2.8
L1026.014-050	M2	2.2	4.0	2.2	M2	0.9	4.9	5.2
L1026.014-075	M2	2.2	4.0	2.2	M2	1.0	7.6	8.0
L1026.014-100	M2	2.2	4.0	2.2	M2	1.1	10.1	10.6
L1026.014-127	M2	2.2	4.0	2.2	M2	1.3	13.0	13.6
L1026.019-013	M3	3.5	6.1	3.4	M3	1.0	1.3	1.4
L1026.019-025	M3	3.5	6.1	3.4	M3	1.5	3.8	4.0
L1026.019-050	M3	3.5	6.1	3.4	M3	2.1	7.0	7.4
L1026.019-075	M3	3.5	6.1	3.4	M3	2.1	10.6	11.1
L1026.019-100	M3	3.5	6.1	3.4	M3	2.3	13.1	13.8
L1026.019-127	M3	3.5	6.1	3.4	M3	2.37	15.6	16.4
L1026.025-013	M4	3.5	6.1	3.4	M3	2.0	2.6	2.8
L1026.025-025	M4	3.5	6.1	3.4	M3	2.2	6.3	6.7
L1026.025-038	M4	3.5	6.1	3.4	M3	2.2	7.0	7.4
L1026.025-050	M4	3.5	6.1	3.4	M3	2.3	8.2	8.6
L1026.025-075	M4	3.5	6.1	3.4	M3	2.5	11.3	11.9
L1026.027-019	M4	4.6	8.1	4.4	M4	3.2	3.7	3.5
L1026.027-038	M4	4.6	8.1	4.4	M4	3.8	8.3	8.8
L1026.027-050	M4	4.6	8.1	4.4	M4	5.7	17.3	18.2
L1026.027-075	M4	4.6	8.1	4.4	M4	7.0	27.3	28.7
L1026.027-100	M4	4.6	8.1	4.4	M4	8.3	48.3	50.7
L1026.027-150	M4	4.6	8.1	4.4	M4	8.6	63.8	67.0
L1026.027-200	M4	4.6	8.1	4.6	M4	9.3	83.1	87.3
L1026.038-025	M4	4.6	8.1	4.4	7.0	M4	5.5	6.7
L1026.038-050	M4	4.6	8.1	4.4	10.0	M4	6.3	9.5
L1026.038-075	M4	4.6	8.1	4.4	16.4	M4	7.3	15.6
L1026.038-089	M4	4.6	8.1	4.4	27.4	M4	8.8	26.1
L1026.038-100	M4	4.6	8.1	4.4	49.1	M4	12.8	46.8
L1026.038-150	M4	4.6	8.1	4.4	76.9	M4	15.0	73.2
L1026.038-200	M4	4.6	8.1	4.4	107	M4	17.2	102
L1026.044-025	M4	4.6	8.1	4.4	7.0	M4	6.3	6.7
L1026.044-038	M4	4.6	8.1	4.4	10.7	M4	7.2	10.2
L1026.044-050	M4	4.6	8.1	4.4	14.0	M4	8.5	13.4
L1026.044-075	M4	4.6	8.1	4.4	16.3	M4	8.5	15.6
L1026.044-100	M4	4.6	8.1	4.4	49.1	M4	14.8	46.8
L1026.044-150	M4	4.6	8.1	4.4	80.0	M4	18.0	76.3
L1026.044-200	M4	4.6	8.1	4.4	117	M4	21.6	111
L1026.067-025	M5	5.8	10.0	5.3	14.9	M5	18.5	14.2
L1026.067-038	M5	5.8	10.0	5.3	18.8	M5	21.5	17.9
L1026.067-050	M5	5.8	10.0	5.3	37.6	M5	28.7	35.8
L1026.067-075	M5	5.8	10.0	5.3	62.6	M5	35.9	59.7
L1026.067-100	M5	5.8	10.0	5.3	78.3	M5	35.9	74.6



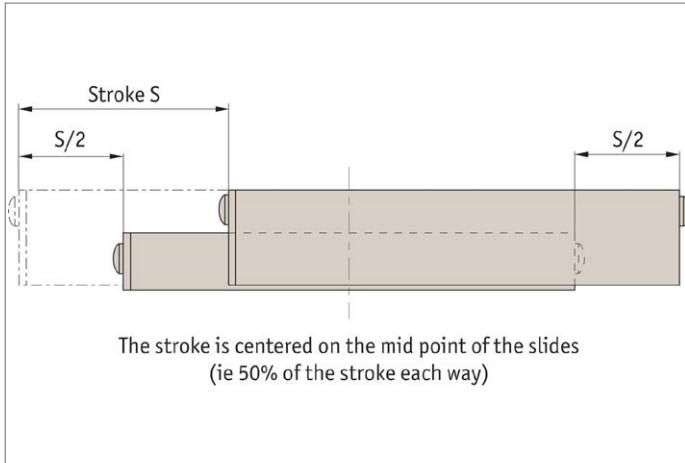
# Crossed Roller Slides

standard precision

## Linear Tables



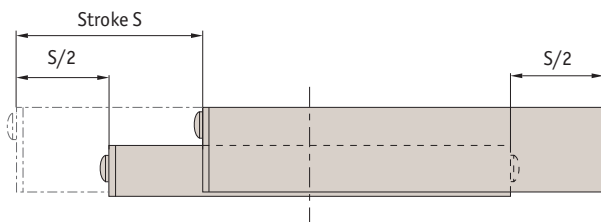
Order No.	d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub>	h <sub>3</sub>	Counterbore screw size	Moment M <sub>x</sub> Nm max.	Moment M <sub>y</sub> Nm max.	Moment M <sub>z</sub> Nm max.
L1026.067-127	M5	5.8	10.0	5.3	117	M5	38.9	112
L1026.067-150	M5	5.8	10.0	5.3	175	M5	57.4	167
L1026.067-228	M5	5.8	10.0	5.3	258	M5	60.9	245
L1026.067-304	M5	5.8	10.0	5.3	323	M5	64.2	308





### Factors affecting stage selections...

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



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

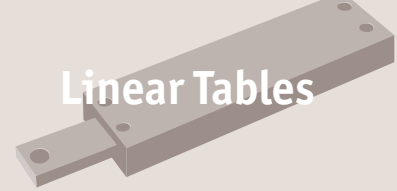
Generally ball slides are less expensive but cross roller slides can carry 8 to 10 times the load of ball slides.

LINEAR TABLES

### A selection...

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





### Steel - L1020

- Standard steel / cast iron



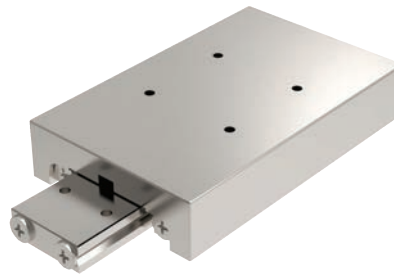
### Aluminium - L1021

- Lower weight, lower profile
- Good for high accelerations



### Stainless steel - L1022 + L1023

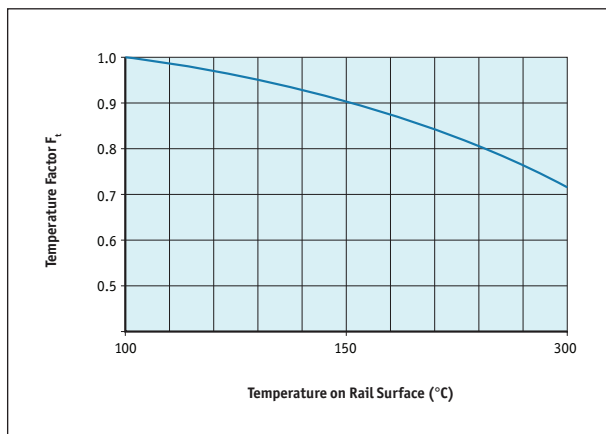
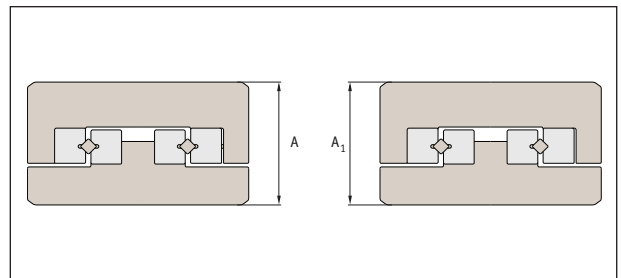
- Stainless steel (440C+Ni) corrosion resistant



### 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 measurements

- 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.

LINEAR TABLES

Table accuracy ( $\mu$ )			Rail accuracy ( $\mu$ )				
Table length	Carriage top parallelism	Carriage side parallelism	N tolerance	M tolerance	Straightness		
0-50	2	4	-15	-30	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			-35	-70	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				

