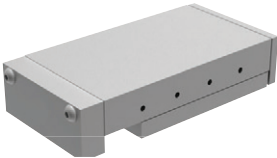
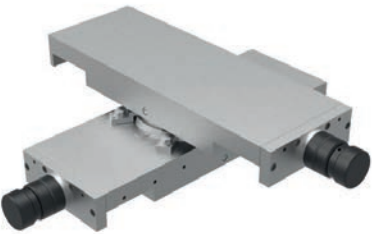
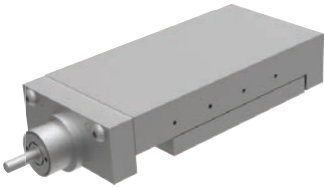
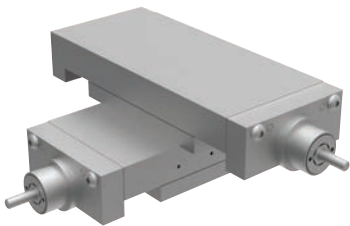




Heavy duty linear stages

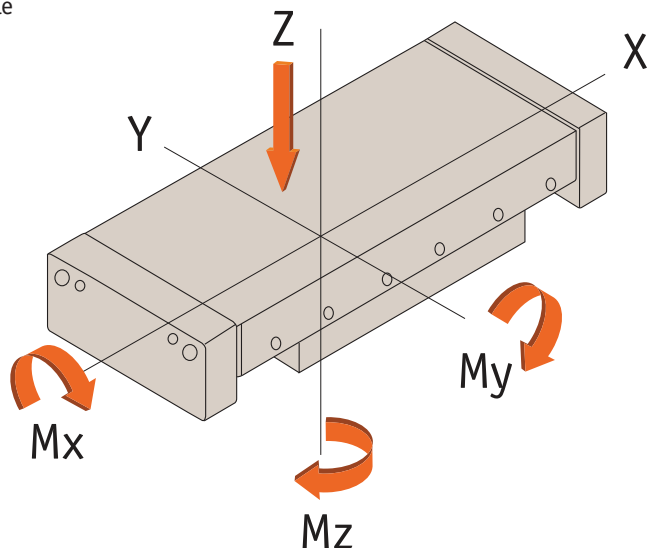
Plain stages 	Lead screw & handle 	Lead screw & knob 
XYθ stage 	Motorised stage 	XY stage 

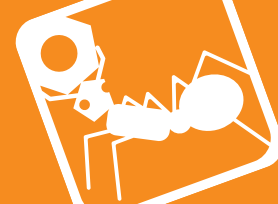
Available with the following sliding elements:

Cross roller:	For medium loads, low friction.
Dovetail:	Less expensive, higher friction, higher loads.
Needle roller:	Highest loads, low friction, more expensive.

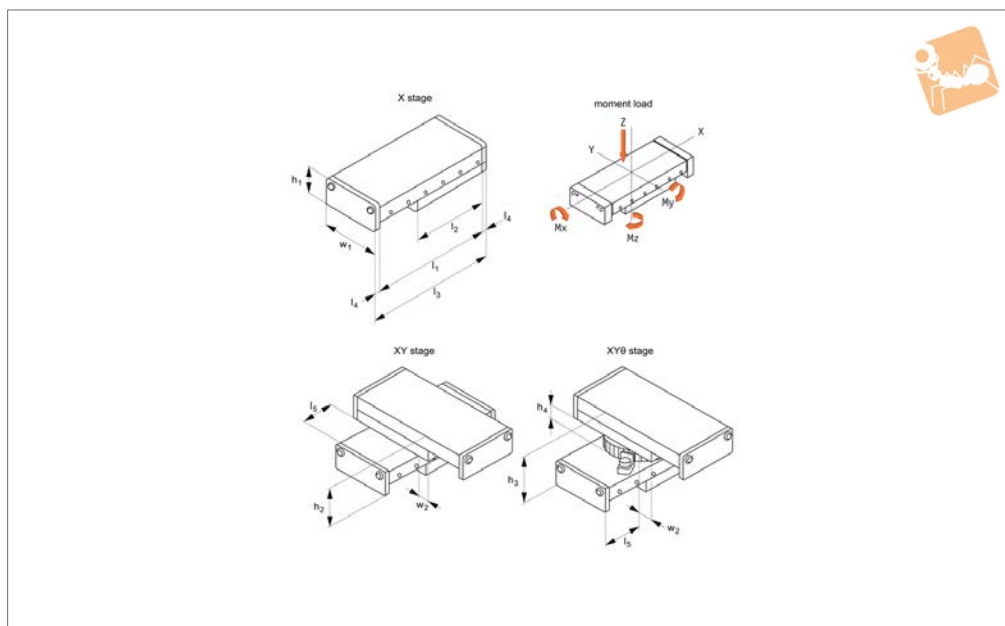
Moment loads

All loads shown in tables are based upon an evenly distributed load with slide in centre position. All loads apply to a single slide.





L3170



Material

Cast iron body (ENGJL-250), with hardened cross roller linear rail set.

Can also be supplied with an aluminium body when lighter weight stages are required (approx. 50% of weight of standard slides and have 50% of the load capacity).

Technical Notes

Suitable for horizontal and vertical applications requiring smooth movement, long life and high load capacity. Other versions

are also available - dovetail slides (L3480) for vibration damping, and needle roller slides (L3490) for even higher load ratings. Load ratings are based on even surface loading with the slide in the centre position, and apply to a single slide. Coefficient of friction 0,003.

Tips

With no lead screw drive.

Replace - * with

-X for X axis stage

- XY for X,Y axes stage

-XYT for X,Y,. stage

Centre mounting of compound slides is standard. Please advise dimensions w_2 and l_5 when off-centre mounting is required.

Important Notes

See technical pages for straightness and parallelism accuracy and standard carriage and base fixing holes - other fixing holes can be machined on request. 3D CAD models available.

Order No.	w_1	Stroke	l_1	h_1	h_2	h_3	h_4	l_2	l_3	Weight kg
L3170.050-022-*	50	22	76	25	50	-	-	50	88	0.6
L3170.050-025-*	50	25	102	25	50	-	-	76	114	0.8
L3170.050-050-*	50	50	152	25	50	-	-	101	164	1.1
L3170.075-025-*	75	25	102	32	64	82	18	76	114	1.8
L3170.075-026-*	75	25	127	32	64	82	18	101	139	2.0
L3170.075-050-*	75	50	152	32	64	82	18	101	164	2.5
L3170.100-025-*	100	25	152	37	74	92	18	126	164	4.0
L3170.100-050-*	100	50	203	37	74	92	18	152	215	4.7
L3170.100-051-*	100	50	254	37	74	92	18	203	266	6.1
L3170.100-075-*	100	75	305	37	74	92	18	228	317	7.0
L3170.150-050-*	150	50	203	50	100	120	20	152	219	10.0
L3170.150-100-*	150	100	305	50	100	120	20	203	321	13.2
L3170.150-101-*	150	100	406	50	100	120	20	304	422	18.0
L3170.150-150-*	150	150	406	50	100	120	20	253	422	16.5
L3170.200-150-*	200	150	457	58	116	136	20	304	473	30.0
L3170.200-200-*	200	200	610	58	116	136	20	406	626	40.0
L3170.300-100-*	300	100	410	75	150	180	30	308	430	59.0
L3170.300-200-*	300	200	610	75	150	180	30	408	630	80.0
L3170.300-300-*	300	300	710	75	150	180	30	408	730	91.5
L3170.300-400-*	300	400	910	75	150	180	30	508	930	110
L3170.300-500-*	300	500	1010	75	150	180	30	508	1030	125
L3170.300-600-*	300	600	1210	75	150	180	30	608	1230	145



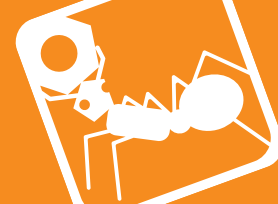
Plain Positioning Stages

cross roller

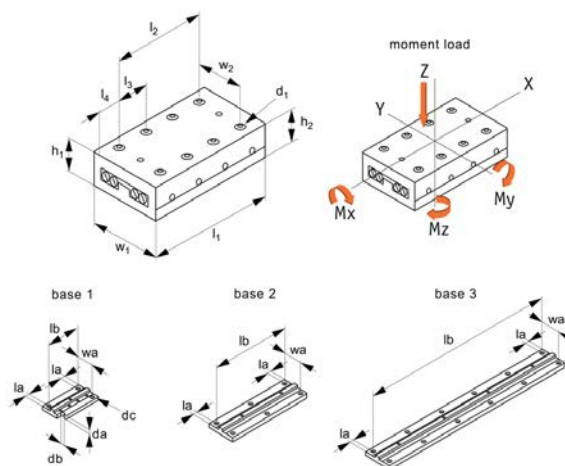
Manual Positioning Stages

Order No.	l_4	l_5	w_2	Load kN max.	Moment M_x Nm max.	Moment M_y Nm max.	Moment M_z Nm max.
L3170.050-022-*	6	13.0	0.0	0.34	12	5.7	6.4
L3170.050-025-*	6	26.0	13.0	0.59	20	17	19
L3170.050-050-*	6	51.0	25.5	0.74	25	26	29
L3170.075-025-*	6	13.5	0.5	0.59	32	18	19
L3170.075-026-*	6	26.0	13.0	0.84	45	37	39
L3170.075-050-*	6	38.5	13.0	0.74	40	27	29
L3170.100-025-*	6	26.0	13.0	1.08	67	41	48
L3170.100-050-*	6	51.5	26.0	1.23	76	52	62
L3170.100-051-*	6	77.0	51.5	1.72	106	104	124
L3170.100-075-*	6	102.5	64.0	1.82	112	118	141
L3170.150-050-*	8	26.5	1.0	2.60	220	104	123
L3170.150-100-*	8	77.5	26.5	3.20	270	157	186
L3170.150-101-*	8	128.0	77.0	5.43	460	460	545
L3170.150-150-*	8	128.0	51.5	3.82	324	220	260
L3170.200-150-*	8	128.5	52.0	5.03	705	445	455
L3170.200-200-*	8	205.0	103.0	6.64	935	798	815
L3170.300-100-*	10	55.0	4.0	8.38	3190	800	825
L3170.300-200-*	10	155.0	54.0	10.4	3950	1205	1245
L3170.300-300-*	10	205.0	54.0	8.38	3190	800	825
L3170.300-400-*	10	305.0	104.0	10.4	3950	1205	1245
L3170.300-500-*	10	355.0	104.0	8.38	3190	800	825
L3170.300-600-*	10	455.0	154.0	10.4	3950	1205	1245

MANUAL POSITIONING STAGES



L3171



Material

Cast iron body (ENGJL-250), with hardened cross roller linear rail set.

Can also be supplied with an aluminium body when lighter weight stages are required (approx. 50% of weight of standard slides and have 50% of the load capacity).

Technical Notes

Other versions are also available - dovetail slides (L3480) for vibration damping, and needle roller slides (L3490) for even higher load ratings. Load ratings are based on even surface loading with the slide in the centre position. Coefficient of friction 0,003.

Important Notes

See technical pages for straightness and parallelism accuracy and standard carriage and base fixing holes - other fixing holes can be machined on request. 3D CAD models available.

Order No.	w_1	Stroke	d_1	d_a	d_b	d_c	l_1	h_1	h_2	Hole pattern	l_2	Weight kg
L3171.030-012	30	12	4.3	2.3	2.4	4.3	25	17	9.0	1	1x l_3	0.1
L3171.030-018	30	18	4.3	2.3	2.4	4.3	35	17	9.0	1	2x l_3	0.1
L3171.030-025	30	25	4.3	2.3	2.4	4.3	45	17	9.0	1	3x l_3	0.1
L3171.030-032	30	32	4.3	2.3	2.4	4.3	55	17	9.0	2	4x l_3	0.2
L3171.030-040	30	40	4.3	2.3	2.4	4.3	65	17	9.0	2	5x l_3	0.2
L3171.030-045	30	45	4.3	2.3	2.4	4.3	75	17	9.0	2	6x l_3	0.2
L3171.030-050	30	50	4.3	2.3	2.4	4.3	85	17	9.0	2	7x l_3	0.3
L3171.040-018	40	18	6.0	3.5	3.4	6.0	35	21	11.0	1	1x l_3	0.2
L3171.040-030	40	30	6.0	3.5	3.4	6.0	50	21	11.0	1	2x l_3	0.3
L3171.040-040	40	40	6.0	3.5	3.4	6.0	65	21	11.0	1	3x l_3	0.3
L3171.040-050	40	50	6.0	3.5	3.4	6.0	80	21	11.0	2	4x l_3	0.4
L3171.040-060	40	60	6.0	3.5	3.4	6.0	95	21	11.0	2	5x l_3	0.5
L3171.040-070	40	70	6.0	3.5	3.4	6.0	110	21	11.0	2	6x l_3	0.6
L3171.040-080	40	80	6.0	3.5	3.4	6.0	125	21	11.0	2	7x l_3	0.7
L3171.060-030	60	30	8.0	4.5	4.5	8.0	55	28	14.5	1	1x l_3	0.6
L3171.060-045	60	45	8.0	4.5	4.5	8.0	80	28	14.5	1	2x l_3	0.8
L3171.060-060	60	60	8.0	4.5	4.5	8.0	105	28	14.5	1	3x l_3	1.0
L3171.060-075	60	75	8.0	4.5	4.5	8.0	130	28	14.5	1	4x l_3	1.3
L3171.060-090	60	90	8.0	4.5	4.5	8.0	155	28	14.5	2	5x l_3	1.5
L3171.060-105	60	105	8.0	4.5	4.5	8.0	180	28	14.5	2	6x l_3	1.7
L3171.060-130	60	130	8.0	4.5	4.5	8.0	205	28	14.5	3	7x l_3	2.0
L3171.100-060	100	60	11.0	6.5	6.6	11.0	110	45	23.5	1	1x l_3	3.1
L3171.100-095	100	95	11.0	6.5	6.6	11.0	160	45	23.5	1	2x l_3	4.5
L3171.100-130	100	130	11.0	6.5	6.6	11.0	210	45	23.5	2	3x l_3	5.9
L3171.100-165	100	165	11.0	6.5	6.6	11.0	260	45	23.5	2	4x l_3	7.2
L3171.100-200	100	200	11.0	6.5	6.6	11.0	310	45	23.5	2	5x l_3	8.6
L3171.100-235	100	235	11.0	6.5	6.6	11.0	360	45	23.5	3	6x l_3	10.0
L3171.100-265	100	265	11.0	6.5	6.6	11.0	410	45	23.5	3	7x l_3	11.4
L3171.145-130	145	130	15.0	8.5	9.0	15.0	210	60	32.0	1	1x l_3	11.8



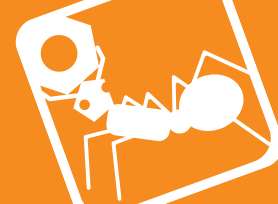
Plain Compact Positioning Stages

cross roller

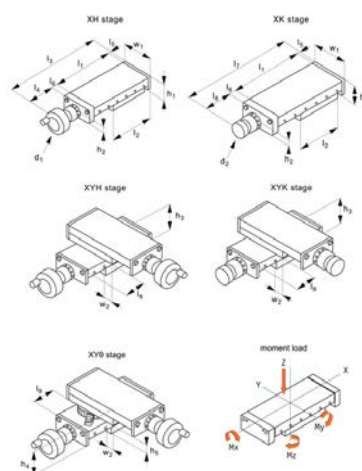
Manual Positioning Stages

Order No.	w ₁	Stroke	d ₁	d _a	d _b	d _c	l ₁	h ₁	h ₂	Hole pattern	l ₂	Weight kg
L3171.145-180	145	180	15.0	8.5	9.0	15.0	310	60	32.0	1	2x l ₃	17.3
L3171.145-350	145	350	15.0	8.5	9.0	15.0	410	60	32.0	2	3x l ₃	22.8
L3171.145-450	145	450	15.0	8.5	9.0	15.0	510	60	32.0	2	4x l ₃	28.3
L3171.145-550	145	550	15.0	8.5	9.0	15.0	610	60	32.0	2	5x l ₃	33.8
L3171.145-650	145	650	15.0	8.5	9.0	15.0	710	60	32.0	3	6x l ₃	39.3
L3171.145-750	145	750	15.0	8.5	9.0	15.0	810	60	32.0	2	7x l ₃	44.8
L3171.145-850	145	850	15.0	8.5	9.0	15.0	910	60	32.0	3	8x l ₃	50.3
L3171.145-950	145	950	15.0	8.5	9.0	15.0	1010	60	32.0	2	9x l ₃	55.8

Order No.	l ₃	l ₄	l _a	l _b	w ₂	w _a	Load kN max.	Moment M _x Nm max.	Moment M _y Nm max.	Moment M _z Nm max.
L3171.030-012	10	7.5	3.5	1x18	18.4	22	0.16	1.4	0.4	0.4
L3171.030-018	10	7.5	3.5	1x18	18.4	22	0.28	2.4	1.2	1.3
L3171.030-025	10	7.5	3.5	1x38	18.5	22	0.36	3.0	2.1	2.4
L3171.030-032	10	7.5	3.5	1x10 / 1x28 / 1x10	18.6	22	0.44	3.7	3.3	3.7
L3171.030-040	10	7.5	3.5	1x10 / 1x38 / 1x10	18.7	22	0.52	4.4	4.7	5.2
L3171.030-045	10	7.5	3.5	1x10 / 1x48 / 1x10	18.8	22	0.60	5.1	6.6	7.3
L3171.030-050	10	7.5	3.5	1x10 / 1x58 / 1x10	18.9	22	0.72	6.1	9.3	10
L3171.040-018	15	10	5.0	1x25	25.0	30	0.29	3.8	1.3	1.5
L3171.040-030	15	10	5.0	1x40	25.0	30	0.41	5.4	2.9	3.2
L3171.040-040	15	10	5.0	1x55	25.0	30	0.59	7.7	5.9	6.6
L3171.040-050	15	10	5.0	1x15 / 1x40 / 1x15	25.0	30	0.71	9.2	9.1	10
L3171.040-060	15	10	5.0	1x15 / 1x55 / 1x15	25.0	30	0.89	11	14	15
L3171.040-070	15	10	5.0	1x15 / 1x70 / 1x15	25.0	30	1.01	13	18	21
L3171.040-080	15	10	5.0	1x15 / 1x85 / 1x15	25.0	30	1.19	15	25	28
L3171.060-030	25	15	10.0	1x35	39.0	40	0.70	12	5.1	5.6
L3171.060-045	25	15	10.0	1x60	39.0	40	1.0	18	11	13
L3171.060-060	25	15	10.0	1x85	39.0	40	1.40	25	23	25
L3171.060-075	25	15	10.0	1x110	39.0	40	1.70	30	36	40
L3171.060-090	25	15	10.0	1x25 / 1x85 / 1x25	39.0	40	2.10	38	54	60
L3171.060-105	25	15	10.0	1x25 / 1x110 / 1x25	39.0	40	2.40	43	73	81
L3171.060-130	25	15	10.0	2x25 / 1x85 / 2x22	39.0	40	27.0	49	91	101
L3171.100-060	50	30	10.0	1x90	64.0	60	2.05	59	28	33
L3171.100-095	50	30	10.0	1x140	64.0	60	3.20	93	70	83
L3171.100-130	50	30	10.0	1x50 / 1x85 / 1x50	64.0	60	4.37	127	131	156
L3171.100-165	50	30	10.0	1x50 / 1x140 / 1x50	64.0	60	5.20	152	200	235
L3171.100-200	50	30	10.0	1x50 / 1x190 / 1x50	64.0	60	6.40	186	295	350
L3171.100-235	50	30	10.0	2x50 / 1x140 / 1x50	64.0	60	7.28	210	395	470
L3171.100-265	50	30	10.0	2x50 / 1x190 / 1x50	64.0	60	8.45	245	530	635
L3171.145-130	100	55	55.0	1x100	98.0	90	6.90	270	180	210
L3171.145-180	100	55	55.0	1x200	98.0	90	11.5	455	500	590
L3171.145-350	100	55	55.0	3x100	98.0	90	12.2	485	575	680
L3171.145-450	100	55	55.0	1x100/1x200/1x100	98.0	90	14.5	575	855	1010
L3171.145-550	100	55	55.0	5x100	98.0	90	17.6	695	1240	1465
L3171.145-650	100	55	55.0	2x10/1x200/2x100	98.0	90	19.9	790	1635	1930
L3171.145-750	100	55	55.0	7x100	98.0	90	23.0	910	2155	2545
L3171.145-850	100	55	55.0	3x100/1x200/3x100	98.0	90	25.3	1000	2665	3150
L3171.145-950	100	55	55.0	9x100	98.0	90	28.3	1125	3320	3920



L3172



Material

Cast iron body (ENGJL-250), with hardened cross roller linear rail set. Hardened and ground lead screw, pitch accuracy $\pm 0.02\text{mm}/300\text{mm}$. Can also be supplied with an aluminium body when lighter weight stages are required (approx. 50% of weight of standard slides and have 50% of the load capacity).

Technical Notes

Suitable for horizontal and vertical appli-

cations requiring smooth movement, long life and high load capacity. Other versions are also available - dovetail slides (L3480) for vibration damping, and needle roller slides (L3490) for even higher load ratings. Load ratings are based on even surface loading with the slide in the centre position, and apply to a single slide. Coefficient of friction 0,003.

Tips

Replace - * with

-XH for X axis stage with handle

-XK for X axis stage with knob

-XYH for X,Y axes stage with handle

-XYK for X,Y axes stage with knob

-XYTH for X,Y,. stage with handle

-XYTK for X,Y,. stage with knob

Important Notes

See technical pages for straightness and parallelism accuracy and standard carriage and base fixing holes - other fixing holes can be machined on request. 3D CAD models available.

Order No.	w_1	Stroke	d_1	d_2	l_1	h_1	h_2	h_3	h_4	h_5	l_2	l_3	Weight kg
L3172.050-022-*	50	22	50	23.9	76	25	12.5	50	-	-	50	156	0.6
L3172.050-025-*	50	25	50	23.9	102	25	12.5	50	-	-	76	182	0.8
L3172.050-050-*	50	50	50	23.9	152	25	12.5	50	-	-	101	232	1.1
L3172.075-025-*	75	25	56	31	102	32	16.0	64	82	18	76	193	1.8
L3172.075-026-*	75	25	56	31	127	32	16.0	64	82	18	101	218	2.0
L3172.075-050-*	75	50	56	31	152	32	16.0	64	82	18	101	243	2.5
L3172.100-025-*	100	25	56	35	152	37	18.0	74	92	18	126	243	4.0
L3172.100-050-*	100	50	56	35	203	37	18.0	74	92	18	152	294	4.7
L3172.100-051-*	100	50	56	35	254	37	18.0	74	92	18	203	345	6.1
L3172.100-075-*	100	75	56	35	305	37	18.0	74	92	18	228	396	7.0
L3172.150-050-*	150	50	106	48	203	50	24.3	100	120	20	152	334	10.0
L3172.150-100-*	150	100	106	48	305	50	24.3	100	120	20	203	436	13.2
L3172.150-101-*	150	100	106	48	406	50	24.3	100	120	20	304	537	18.0
L3172.150-150-*	150	150	106	48	406	50	24.3	100	120	20	253	537	16.5
L3172.200-150-*	200	150	106	48	457	58	28.3	116	136	20	304	588	30.0
L3172.200-200-*	200	200	106	48	610	58	28.3	116	136	20	406	741	40.0
L3172.300-100-*	300	100	125	68	410	75	35.0	150	180	30	308	607	59.0
L3172.300-200-*	300	200	125	68	610	75	35.0	150	180	30	408	807	80.0
L3172.300-300-*	300	300	125	68	408	75	35.0	150	180	30	408	907	91.5
L3172.300-400-*	300	400	125	68	910	75	35.0	150	180	30	508	1107	110.0
L3172.300-500-*	300	500	125	68	1010	75	35.0	150	180	30	508	1207	125.0
L3172.300-600-*	300	600	125	68	1210	75	35.0	150	180	30	608	1407	145.0



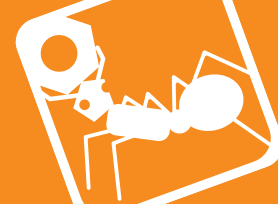
Manual Lead Screw Stages

cross roller

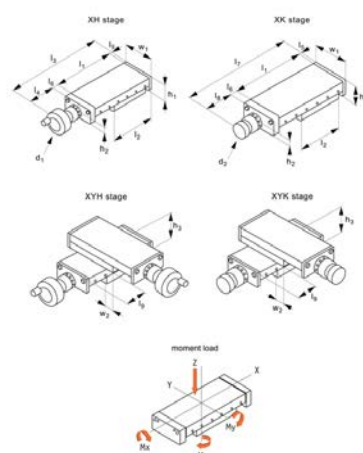
Manual Positioning Stages

Order No.	l_4	l_5	l_6	l_7	l_8	l_9	w_2	Lead screw	Load kN max.	Moment M_x Nm max.	Moment M_y Nm max.	Moment M_z Nm max.
L3172.050-022-*	60	6	14	138	42	13.0	0.0	M 6x1	0.3	12	5.7	6.4
L3172.050-025-*	60	6	14	164	42	26.0	13.0	M 6x1	0.6	20	17	19
L3172.050-050-*	60	6	14	214	42	51.0	25.5	M 6x1	0.7	25	26	29
L3172.075-025-*	70	6	15	170	47	13.5	0.5	M 6x1	0.6	32	18	19
L3172.075-026-*	70	6	15	195	47	26.0	13.0	M 8x1	0.8	45	37	39
L3172.075-050-*	70	6	15	220	47	38.5	13.0	M 8x1	0.7	40	27	29
L3172.100-025-*	70	6	15	222	49	26.0	13.0	M 8x1	1.1	67	41	48
L3172.100-050-*	70	6	15	273	49	51.5	26.0	M12x1	1.2	76	52	62
L3172.100-051-*	70	6	15	324	49	77.0	51.5	M12x1	1.7	106	104	124
L3172.100-075-*	70	6	15	375	49	102.5	64.0	M12x1	1.8	112	118	141
L3172.150-050-*	107	8	16	297	70	26.5	1.0	M12x1	2.6	220	104	123
L3172.150-100-*	107	8	16	399	70	77.5	26.5	M20x1	3.2	270	157	186
L3172.150-101-*	107	8	16	500	70	128.0	77.0	M20x1	5.4	460	460	545
L3172.150-150-*	107	8	16	500	70	128.0	51.5	M20x1	3.8	324	220	260
L3172.200-150-*	107	8	16	551	70	128.5	52.0	M20x1	5.0	705	445	455
L3172.200-200-*	107	8	16	704	70	205.0	103.0	M20x1	6.6	935	795	815
L3172.300-100-*	166.5	8	20	538	97.5	55.0	4.0	Tr26x4	8.4	3190	800	825
L3172.300-200-*	166.5	10	20	738	97.5	155.0	54.0	Tr26x4	10.4	3950	1205	1245
L3172.300-300-*	166.5	10	20	838	97.5	54.0	54.0	Tr26x4	8.4	3190	800	825
L3172.300-400-*	166.5	10	20	1038	97.5	305.0	104.0	Tr26x4	10.4	3950	1205	1245
L3172.300-500-*	166.5	10	20	1138	97.5	355.0	104.0	Tr26x4	8.4	3190	800	825
L3172.300-600-*	166.5	10	20	1338	97.5	455.0	154.0	Tr26x4	10.4	3950	1205	1245

MANUAL POSITIONING STAGES



L3173



Material

Cast iron body (ENGJL-250), with hardened cross roller linear rail set. Hardened and ground lead screw, pitch accuracy $\pm 0.02\text{mm}/300\text{mm}$. Can also be supplied with an aluminium body when lighter weight stages are required (approx. 50% of weight of standard slides and have 50% of the load capacity).

Technical Notes

Suitable for horizontal and vertical applications requiring smooth movement, long life and high load capacity. Other versions are also available - dovetail slides (L3480) for vibration damping, and needle roller slides (L3490) for even higher load ratings. Load ratings are based on even surface loading with the slide in the centre position, and apply to a single slide. Coefficient of friction 0,003.

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Tips

Replace *- with
-XH for X axis stage with handle

-XK for X axis stage with knob
-XYH for X,Y axes stage with handle
-XYK for X,Y axes stage with knob

Important Notes

See technical pages for straightness and parallelism accuracy and standard carriage and base fixing holes - other fixing holes can be machined on request. 3D CAD models available.

Order No.	w_1	Stroke	d_1	d_2	l_1	h_1	h_2	h_3	l_2	l_3	Weight kg
L3173.060-025-*	60	25	50	23.9	80	28	14	56	55	160	0.8
L3173.060-050-*	60	50	50	23.9	130	28	14	56	80	210	1.2
L3173.060-075-*	60	75	50	23.9	205	28	14	56	130	285	1.9
L3173.060-100-*	60	100	50	23.9	255	28	14	56	155	335	2.3
L3173.100-025-*	100	25	50	35.0	135	45	21	90	110	226	3.3
L3173.100-050-*	100	50	56	35.0	210	45	21	90	160	301	5.9
L3173.100-075-*	100	75	56	35.0	285	45	21	90	210	376	7.5
L3173.100-100-*	100	100	56	35.0	360	45	21	90	260	451	9.5
L3173.100-150-*	100	150	56	35.0	460	45	21	90	310	551	11.4
L3173.100-175-*	100	175	56	35.0	535	45	21	90	360	626	13.8
L3173.100-200-*	100	200	56	35.0	610	45	21	90	410	701	14.5
L3173.145-050-*	145	50	106	48.0	260	60	26	120	210	391	13.0
L3173.145-100-*	145	100	106	48.0	310	60	26	120	210	441	14.2
L3173.145-150-*	145	150	106	48.0	460	60	26	120	310	591	19.3
L3173.145-200-*	145	200	106	48.0	510	60	26	120	310	641	23.0
L3173.145-250-*	145	250	106	48.0	660	60	26	120	410	791	26.8
L3173.145-300-*	145	300	106	48.0	710	60	26	120	410	841	30.0

Order No.	l_4	l_5	l_6	l_7	l_8	l_9	w_2	Lead screw	Load kN max.	Moment M_x Nm max.	Moment M_y Nm max.	Moment M_z Nm max.
L3173.060-025-*	142	6	14	142	42	10.0	0.0	M 6x1	0.4	12	5.5	6.1
L3173.060-050-*	192	6	14	192	42	35.0	10.0	M 6x1	0.6	18	11	12
L3173.060-075-*	267	6	14	267	42	72.5	35.0	M 6x1	1.0	30	36	40



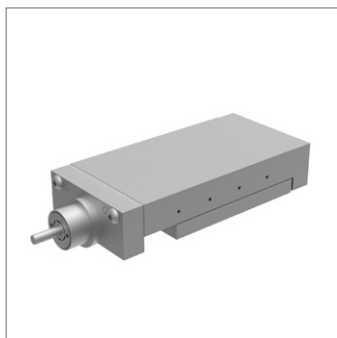
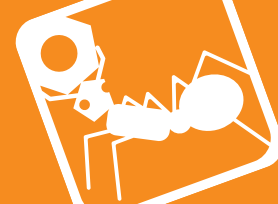
Manual Lead Screw Stages

compact, cross roller

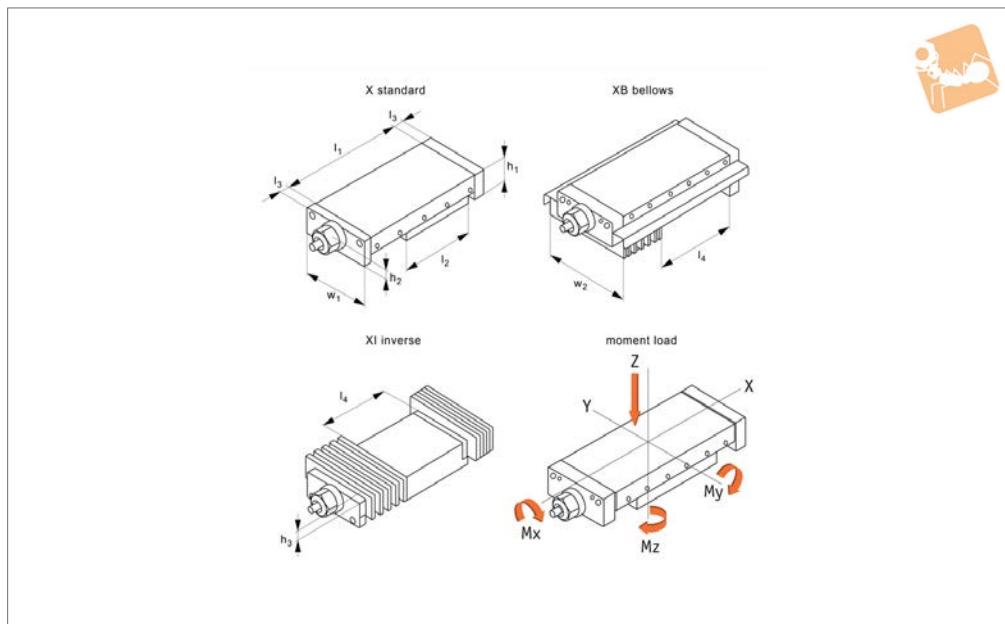
Manual Positioning Stages

Order No.	l_4	l_5	l_6	l_7	l_8	l_9	w_2	Lead screw	Load kN max.	Moment M_x Nm max.	Moment M_y Nm max.	Moment M_z Nm max.
L3173.060-100-*	317	6	14	317	42	97.5	47.5	M 8x1	1.2	36	49	54
L3173.100-025-*	205	6	15	205	49	17.5	5.0	M 8x1	1.6	76	47	56
L3173.100-050-*	280	6	15	280	49	55.0	30.0	M 8x1	2.3	110	104	124
L3173.100-075-*	355	6	15	355	49	92.5	55.0	M12x1	3.1	152	193	230
L3173.100-100-*	430	6	15	430	49	130.0	80.0	M12x1	3.8	186	295	350
L3173.100-150-*	530	6	15	530	49	180.0	105.0	M12x1	4.3	210	380	455
L3173.100-175-*	605	6	15	605	49	217.5	130.0	M12x1	5.1	245	520	620
L3173.100-200-*	680	6	15	680	49	255.0	155.0	M20x1	5.8	275	685	815
L3173.145-050-*	354	8	16	354	70	57.5	32.5	M20x1	6.4	365	325	385
L3173.145-100-*	404	8	16	404	70	82.5	32.5	M20x1	5.3	300	225	265
L3173.145-150-*	554	8	16	554	70	157.5	82.5	M20x1	8.5	485	575	680
L3173.145-200-*	604	8	16	604	70	182.5	82.5	TR26x4	7.5	425	440	520
L3173.145-250-*	754	8	16	754	70	257.5	132.5	TR26x4	10.1	575	855	1010
L3173.145-300-*	804	8	16	804	70	282.5	132.5	TR26x4	9.1	515	685	815

MANUAL POSITIONING STAGES



L3174



Material

Cast iron body (ENGJL-250), with hardened cross roller linear rail set. Hardened and ground lead screw, pitch accuracy $\pm 0.02\text{mm}/300\text{mm}$. Can also be supplied with an aluminium body when lighter weight stages are required (approx. 50% of weight of standard slides and have 50% of the load capacity).

Technical Notes

Suitable for horizontal and vertical applications requiring smooth movement, long

life and high load capacity. Other versions are also available - dovetail slides (L3480) for vibration damping, and needle roller slides (L3490) for even higher load ratings. Load ratings are based on even surface loading with the slide in the centre position, and apply to a single slide. Coefficient of friction 0,003. Speeds up to 3000 rpm, max. 20 m/min. Positioning accuracy max. 0.001mm.

Tips

Replace -* with
-X for X axis stage

-XB for X axis stage with bellows

-XI for inverse X axis stage with bellows.

Optionally with ball screw not lead screw. When limit switches are installed the stroke is reduced by approx. 20mm.

Important Notes

See technical pages for straightness and parallelism accuracy and standard carriage and base fixing holes - other fixing holes can be machined on request. 3D CAD models available.

Order No.	w_1	Stroke	l_1	h_1	h_2	h_3	l_2	l_3	Weight kg
L3174.075-025-*	75	25	102	32	11.5	14	76	15	1.8
L3174.075-026-*	75	25	127	32	11.5	14	101	15	2.0
L3174.075-050-*	75	50	152	32	11.5	14	101	15	2.5
L3174.100-025-*	100	25	152	37	13.5	14	126	15	4.0
L3174.100-050-*	100	50	203	37	13.5	14	152	15	4.7
L3174.100-051-*	100	50	254	37	13.5	14	203	15	6.1
L3174.100-075-*	100	75	305	37	13.5	14	228	15	7.0
L3174.150-050-*	150	50	203	50	19.0	24	152	16	10.0
L3174.150-100-*	150	100	305	50	19.0	24	203	16	13.2
L3174.150-101-*	150	100	406	50	19.0	24	406	16	18.0
L3174.150-150-*	150	150	406	50	19.0	24	253	16	16.5
L3174.200-150-*	200	150	457	58	21.5	24	304	16	30.0
L3174.200-200-*	200	200	610	58	21.5	24	406	16	40.0
L3174.300-100-*	300	100	410	75	26.0	32	308	20	59.0
L3174.300-200-*	300	200	610	75	26.0	32	408	20	80.0
L3174.300-300-*	300	300	710	75	26.0	32	408	20	92.0
L3174.300-400-*	300	400	910	75	26.0	32	508	20	110.0
L3174.300-500-*	300	500	1010	75	26.0	32	508	20	125.0
L3174.300-600-*	300	600	1210	75	26.0	32	608	20	145.0



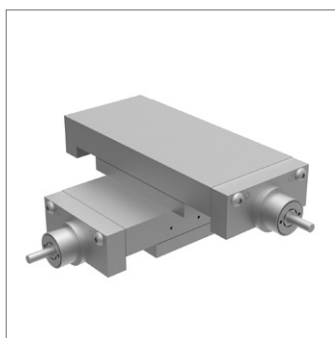
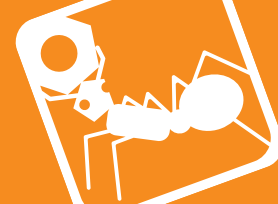
Motor Lead Screw X Stages

cross roller

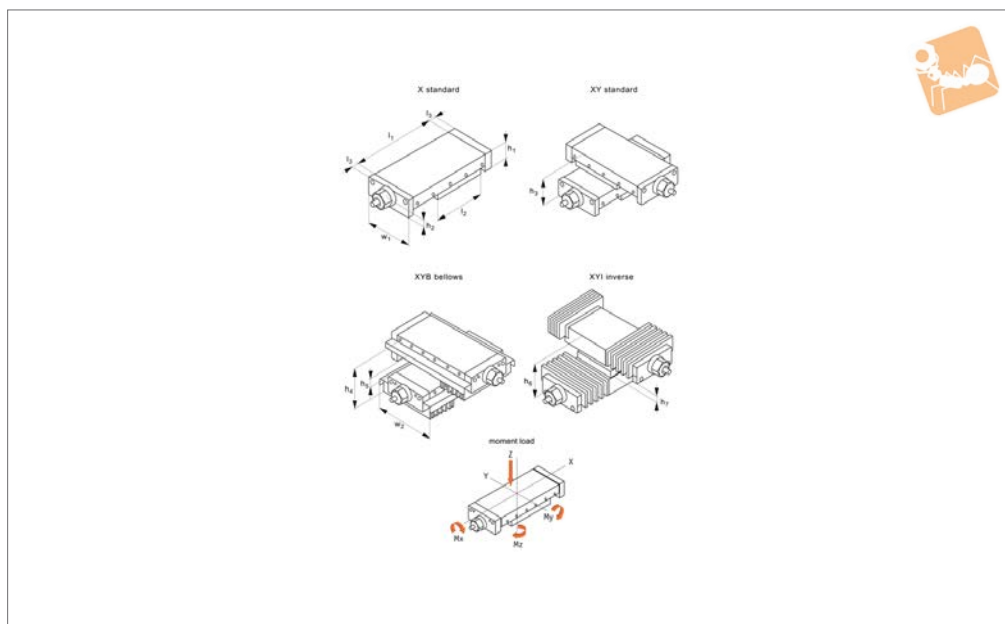
Manual Positioning Stages

Order No.	l_4	l_5	w_2	Lead screw	Load kN max.	Moment M_x Nm max.	Moment M_y Nm max.	Moment M_z Nm max.
L3174.075-025-*	50	13.5	0.5	8x1	0.6	32	18	19
L3174.075-026-*	65	26.0	13.0	8x1	0.8	45	37	40
L3174.075-050-*	55	38.5	13.0	8x1	0.7	40	27	29
L3174.100-025-*	100	26.0	13.0	8x1	1.2	67	41	48
L3174.100-050-*	115	51.5	26.0	8x1	1.2	76	52	62
L3174.100-051-*	160	77.0	51.5	8x1	1.7	106	104	124
L3174.100-075-*	180	102.5	64.0	8x1	1.8	112	118	141
L3174.150-050-*	120	26.5	1.0	15x2	2.6	220	104	123
L3174.150-100-*	150	77.5	26.5	15x2	3.2	270	157	186
L3174.150-101-*	250	128.0	128.0	15x2	5.4	460	460	545
L3174.150-150-*	190	128.0	51.5	15x2	3.8	320	220	260
L3174.200-150-*	250	128.5	52.0	15x2	5.0	705	445	455
L3174.200-200-*	340	205.0	103.0	15x2	6.6	935	795	815
L3174.300-100-*	280	55.0	4.0	23x4	8.4	3190	800	825
L3174.300-200-*	380	155.0	54.0	23x4	10.4	3950	1205	1245
L3174.300-300-*	380	205.0	54.0	23x4	8.4	3190	800	825
L3174.300-400-*	480	305.0	104.0	23x4	10.4	3950	1205	1245
L3174.300-500-*	480	355.0	104.0	23x4	8.4	3190	800	825
L3174.300-600-*	580	455.0	154.0	23x4	10.4	3950	1205	1245

MANUAL POSITIONING STAGES



L3175



Material

Cast iron body (ENGJL-250), with hardened cross roller linear rail set. Hardened and ground lead screw, pitch accuracy $\pm 0.02\text{mm}/300\text{mm}$. Can also be supplied with an aluminium body when lighter weight stages are required (approx. 50% of weight of standard slides and have 50% of the load capacity).

Technical Notes

Suitable for horizontal and vertical applications requiring smooth movement, long

life and high load capacity. Other versions are also available - dovetail slides (L3480) for vibration damping, and needle roller slides (L3490) for even higher load ratings. Load ratings are based on even surface loading with the slide in the centre position, and apply to a single slide. Coefficient of friction 0,003. Speeds up to 3000 rpm, max. 20 m/min. Positioning accuracy up to $\pm 0.015\text{mm}$.

Tips

Replace -* with
-XY for XY axis stage

-XYB for XY axis stage with bellows
-XYI for inverse X axis stage with bellows.

Optionally with ball screw not lead screw. When limit switches are installed the stroke is reduced by approx. 20mm.

Important Notes

See technical pages for straightness and parallelism accuracy and standard carriage and base fixing holes - other fixing holes can be machined on request. 3D CAD models available.

Order No.	w_1	Stroke	l_1	h_1	h_2	h_3	h_4	h_5	h_6	h_7	Weight kg
L3175.075-025-*	75	25	102	32	11.5	64	79	15	79	15	1.8
L3175.075-026-*	75	25	127	32	11.5	64	79	15	79	15	2.0
L3175.075-050-*	75	50	152	32	11.5	64	79	15	79	15	2.5
L3175.100-025-*	100	25	152	37	13.5	74	89	15	89	15	4.0
L3175.100-050-*	100	50	203	37	13.5	74	89	15	89	15	4.7
L3175.100-051-*	100	50	254	37	13.5	74	89	15	89	15	6.1
L3175.100-075-*	100	75	305	37	13.5	74	89	15	89	15	7.0
L3175.150-050-*	150	50	203	50	19.0	100	125	25	125	25	10.0
L3175.150-100-*	150	100	305	50	19.0	100	125	25	125	25	13.2
L3175.150-101-*	150	100	406	50	19.0	100	125	25	125	25	18.0
L3175.150-150-*	150	150	406	50	19.0	100	125	25	125	25	16.5
L3175.200-150-*	200	150	457	58	21.5	116	141	25	141	25	30.0
L3175.200-200-*	200	200	610	58	21.5	116	141	25	141	25	40.0
L3175.300-100-*	300	100	410	75	26.0	150	185	35	185	35	59.0
L3175.300-200-*	300	200	610	75	26.0	150	150	-	185	-	80.0
L3175.300-300-*	300	300	710	75	26.0	150	150	-	150	-	92.0
L3175.300-400-*	300	400	910	75	26.0	150	150	-	150	-	110.0
L3175.300-500-*	300	500	1010	75	26.0	150	150	-	150	-	125.0
L3175.300-600-*	300	600	1210	75	26.0	150	150	-	150	-	145.0



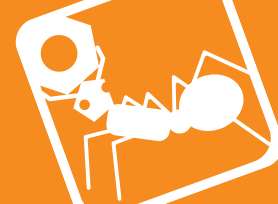
Motor Lead Screw XY Stages

cross roller

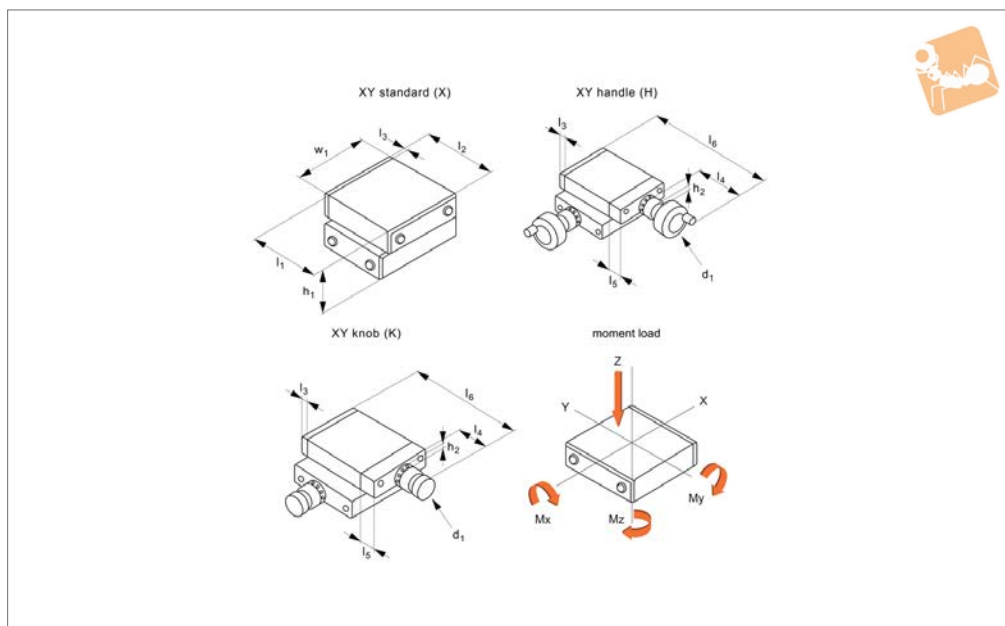
Manual Positioning Stages

Order No.	l_2	l_3	w_2	Lead screw	Load kN max.	Moment M_x Nm max.	Moment M_y Nm max.	Moment M_z Nm max.
L3175.075-025-*	76	15	110	8x1	0.6	32	18	19
L3175.075-026-*	101	15	110	8x1	0.8	45	37	40
L3175.075-050-*	101	15	110	8x1	0.7	40	27	29
L3175.100-025-*	126	15	135	8x1	1.1	67	41	48
L3175.100-050-*	152	15	135	8x1	1.2	76	52	62
L3175.100-051-*	203	15	135	8x1	1.7	106	104	124
L3175.100-075-*	228	15	135	8x1	1.8	112	118	141
L3175.150-050-*	152	16	205	15x2	2.6	220	104	123
L3175.150-100-*	203	16	205	15x2	3.2	270	157	186
L3175.150-101-*	406	16	205	15x2	5.4	460	460	545
L3175.150-150-*	253	16	205	15x2	3.8	320	220	260
L3175.200-150-*	304	16	255	15x2	5.0	705	445	455
L3175.200-200-*	406	16	255	15x2	6.6	935	795	815
L3175.300-100-*	308	20	375	23x4	8.4	3190	800	825
L3175.300-200-*	408	20	375	23x4	10.4	3950	1205	1245
L3175.300-300-*	408	20	375	23x4	8.4	3190	800	825
L3175.300-400-*	508	20	375	23x4	10.4	3950	1205	1245
L3175.300-500-*	508	20	375	23x4	8.4	3190	800	825
L3175.300-600-*	608	20	375	23x4	10.4	3950	1205	1245

MANUAL POSITIONING STAGES



L3177



Material

Cast iron body (ENGJL-250), with hardened cross roller linear rail set. Hardened and ground lead screw M6x1, pitch accuracy $\pm 0,02\text{mm}/300\text{mm}$.

Technical Notes

Suitable for horizontal applications requi-

ring smooth movement, long life and high load capacity. Other versions are also available - cross roller slides (L3470), and needle roller slides (L3490) for even higher load ratings. Load ratings are based on even surface loading with the slide in the centre position, and apply to a single

slide.

Coefficient of friction 0,003.

Tips

Lead screw pitch M6x1, apart from size 300 = M8x1.

Order No.	w_1	Stroke	d_1	l_1	h_1	h_2	l_2	l_3	l_4	Weight kg
L3177.075-025-X	75	25	-	75	50	-	87	6	-	1.6
L3177.100-025-X	100	25	-	100	50	-	112	6	-	2.5
L3177.150-050-X	150	50	-	150	58	-	166	8	-	7.0
L3177.200-050-X	200	50	-	200	58	-	216	8	-	14.0
L3177.300-100-X	300	100	-	300	80	-	316	8	-	34.0
L3177.075-025-H	75	25	50.0	75	50	12.5	-	6	60	1.6
L3177.100-025-H	100	25	50.0	100	50	12.5	-	6	60	2.5
L3177.150-050-H	150	50	50.0	150	58	16.0	-	8	60	7.0
L3177.200-050-H	200	50	50.0	200	58	16.0	-	8	60	14.0
L3177.075-025-K	75	25	23.9	75	50	12.5	-	6	42	1.6
L3177.100-025-K	100	25	23.9	100	50	12.5	-	6	42	2.5
L3177.150-050-K	150	50	23.9	150	58	16.0	-	8	42	7.0
L3177.200-050-K	200	50	23.9	200	58	16.0	-	8	42	14.0
L3177.300-100-K	300	100	31.0	300	80	23.0	-	8	47	34.0

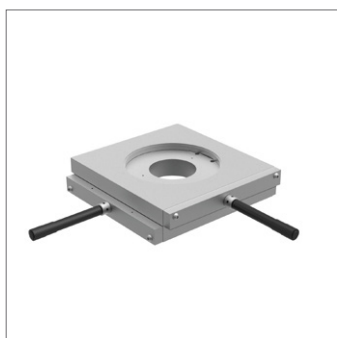
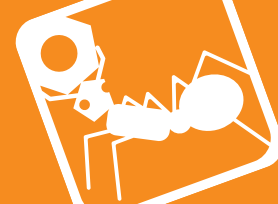
Order No.	l_5	l_6	Lead screw	Load kN max.	Moment M_x Nm max.	Moment M_y Nm max.	Moment M_z Nm max.
L3177.075-025-X	14	-	M6x1	0.3	18	5.7	6.1
L3177.100-025-X	14	-	M6x1	0.6	36	11	14
L3177.150-050-X	14	-	M6x1	0.7	64	18	21
L3177.200-050-X	14	-	M6x1	1.2	190	60	62
L3177.300-100-X	15	-	M8x1	3.2	1140	183	188
L3177.075-025-H	14	155	M6x1	0.3	18	5.7	6.1
L3177.100-025-H	14	180	M6x1	0.6	36	11	14
L3177.150-050-H	14	232	M6x1	0.7	64	18	21
L3177.200-050-H	14	282	M6x1	1.2	190	60	62
L3177.075-025-K	14	137	M6x1	0.3	18	5.7	6.1
L3177.100-025-K	14	162	M6x1	0.6	36	11	14
L3177.150-050-K	14	214	M6x1	0.7	64	18	21



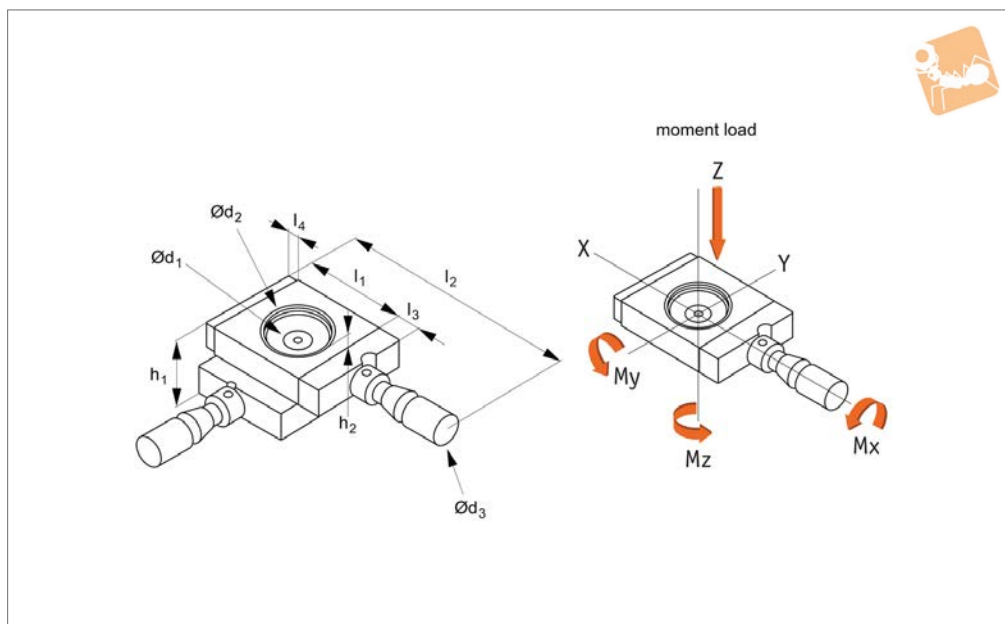
Miniature XY stages cross roller

Manual Positioning Stages

Order No.	l_5	l_6	Lead screw	Load kN max.	Moment M_x Nm max.	Moment M_y Nm max.	Moment M_z Nm max.
L3177.200-050-K	14	264	M6x1	1.2	190	60	62
L3177.300-100-K	15	370	M8x1	3.2	1140	183	188



L3179



Material

Cast iron body (ENGJL-250), with hardened cross roller linear rail set.

Technical Notes

Suitable for horizontal applications requiring smooth movement, long life and high load capacity. Low height profile. The

stage has a through hole.

No backlash due to pull back spring, each micrometer has a locking device.

Coefficient of friction 0,003.

Micrometer pitch = 1,0 apart from 20mm stroke = 0,5.

Tips

Micrometer pitch 1,0mm except first two sizes = 0,5mm.

For scientific and medical applications.

Important Notes

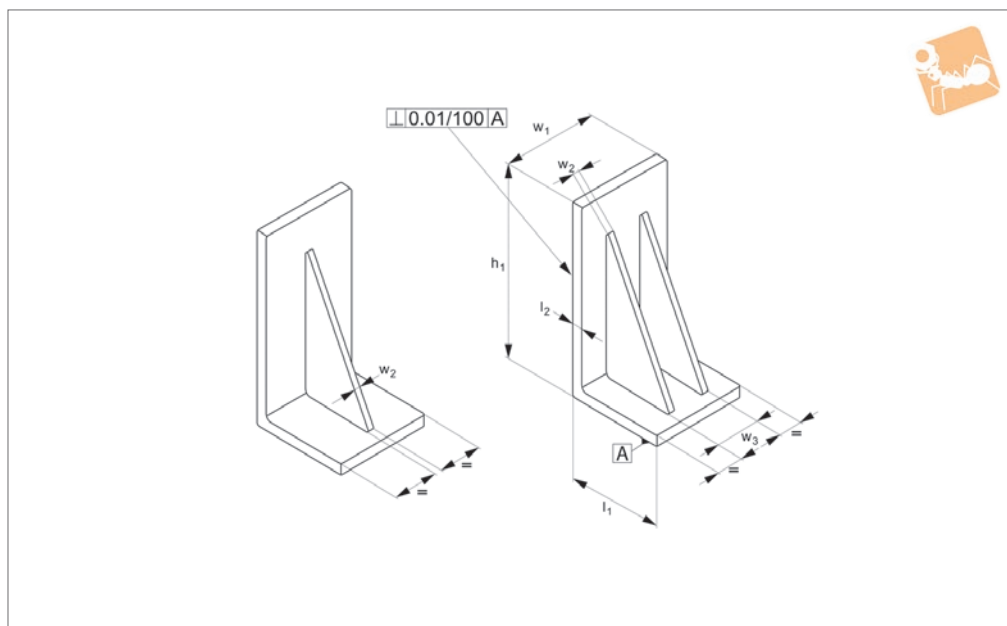
3D CAD models available.

Order No.	Stroke	d_1	d_2	d_3	l_1	h_1	h_2	l_2	l_3	l_4	Load kN max.	Moment M_x Nm max.	Moment M_y Nm max.	Moment M_z Nm max.	Weight kg
L3179.075-020	20	20	55	20	75	40	3	186	14	6	0.37	26	7.1	7.5	1.3
L3179.100-020	20	50	80	20	100	40	3	211	14	6	0.64	44	13	15	2.0
L3179.150-045	45	50	105	20	150	50	3	303	16	8	0.74	64	18	22	6.3
L3179.200-045	45	75	130	20	200	50	3	355	16	8	1.23	190	62	63	13.0
L3179.300-095	95	100	205	24	300	70	3	543	20	10	3.22	1140	186	192	32.0



Angle Brackets for linear stages

Manual Positioning Stages



L3199

MANUAL POSITIONING STAGES

Material

Cast iron, ground. Aluminium alternative on request.

Order No.	w ₁	l ₁	h ₁	l ₂	w ₂	w ₃	No. of ribs
L3199.050-050	50	50	50	8	8	-	1
L3199.050-100	50	50	100	8	8	-	1
L3199.075-075	75	75	75	10	8	-	1
L3199.075-150	75	75	150	10	8	-	1
L3199.100-100	100	100	100	15	12	-	1
L3199.100-200	100	100	200	15	12	-	1
L3199.150-150	150	150	150	18	10	50	2
L3199.150-300	150	150	300	18	10	45	2
L3199.200-200	200	200	200	22	10	75	2
L3199.200-350	200	200	350	22	10	70	2
L3199.300-400	300	300	400	30	15	145	2
L3199.400-500	400	400	500	35	20	210	2