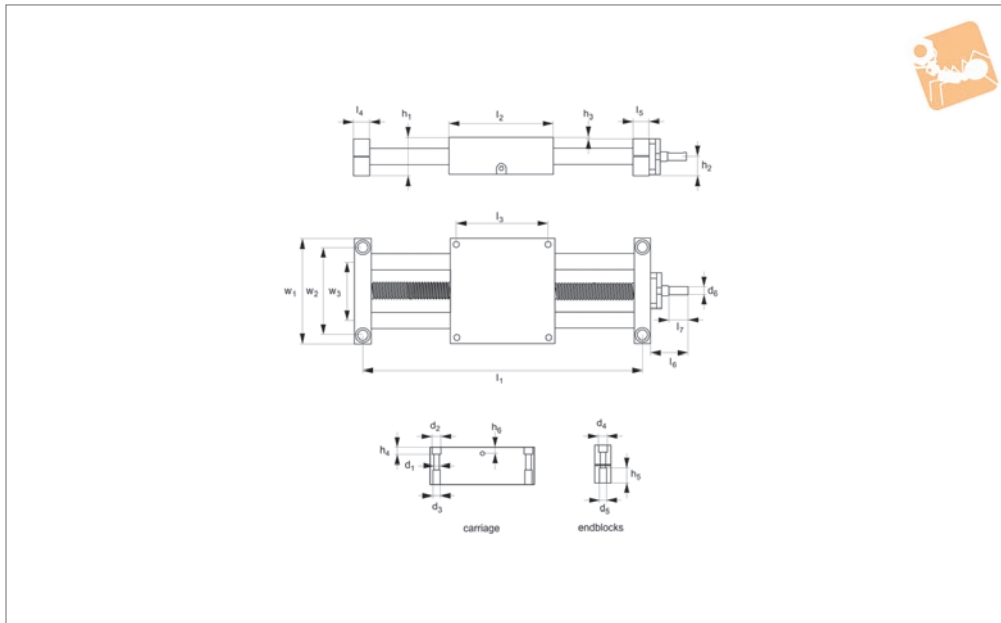
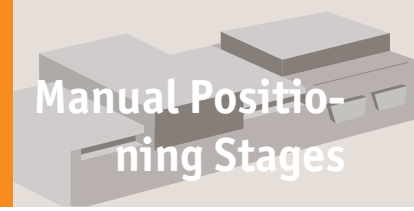




Ball Screw Linear Tables

12mm shafts

Manual Positioning Stages



L3149.12

MANUAL POSITIONING STAGES

Material

Hardened steel shafts.
Aluminium alloy bearing block and end supports.
Self-aligning linear ball bearings, hardened and ground steel body with resin retainers.
Steel ball screw and nut.

as standard to ensure that the balls are permanently in contact with the shaft, even if the shafts bend slightly due to the load put on the table.
Different stroke lengths available on request.

Bellows protection of the lead screw and shaft is available, add -B suffix to the part number.
We strongly recommend you add 50mm to your required stroke.

Technical Notes

Self-aligning linear ball bearings are used

Tips

Handwheels to suit are available (see part number L1455)

Order No.	Stroke	l_1	h_1	l_2	l_3	l_4	l_5	l_6	l_7	w_1	w_2	w_3	Weight kg
L3149.12-0100	100	198	31.5	85	73	12	14	23	8	85	73	45	2.2
L3149.12-0150	150	248	31.5	85	73	12	14	23	8	85	73	45	3.3
L3149.12-0200	200	298	31.5	85	73	12	14	23	8	85	73	45	4.4
L3149.12-0250	250	348	31.5	85	73	12	14	23	8	85	73	45	5.5
L3149.12-0300	300	398	31.5	85	73	12	14	23	8	85	73	45	6.6
L3149.12-0350	350	448	31.5	85	73	12	14	23	8	85	73	45	7.7
L3149.12-0400	400	498	31.5	85	73	12	14	23	8	85	73	45	8.8
L3149.12-0450	450	548	31.5	85	73	12	14	23	8	85	73	45	9.9
L3149.12-0500	500	598	31.5	85	73	12	14	23	8	85	73	45	10.10

Order No.	d_1	d_2	d_3	d_4	d_5	d_6	h_2	h_3	h_4	h_5	h_6	Ball screw dia. x lead	Static load N max.
L3149.12-0100	5.2	10	M6x12	5.5	10.7	4	15	1.5	5.5	5.7	7.5	8x2,5	3900
L3149.12-0150	5.2	10	M6x12	5.5	10.7	4	15	1.5	5.5	5.7	7.5	8x2,5	3100
L3149.12-0200	5.2	10	M6x12	5.5	10.7	4	15	1.5	5.5	5.7	7.5	8x2,5	2500
L3149.12-0250	5.2	10	M6x12	5.5	10.7	4	15	1.5	5.5	5.7	7.5	8x2,5	1500
L3149.12-0300	5.2	10	M6x12	5.5	10.7	4	15	1.5	5.5	5.7	7.5	8x2,5	1200
L3149.12-0350	5.2	10	M6x12	5.5	10.7	4	15	1.5	5.5	5.7	7.5	8x2,5	1000
L3149.12-0400	5.2	10	M6x12	5.5	10.7	4	15	1.5	5.5	5.7	7.5	8x2,5	900
L3149.12-0450	5.2	10	M6x12	5.5	10.7	4	15	1.5	5.5	5.7	7.5	8x2,2	750
L3149.12-0500	5.2	10	M6x12	5.5	10.7	4	15	1.5	5.5	5.7	7.5	8x2,5	500

Lead Screw Driven Stages

End of travel and home switches



Limit and position switches:

End of Travel and/or Home Position switches can be installed onto these linear stages – please see the drawings of the brackets that attach to the stages that result from this requirement.

The End of Travel switch kit comes with two switches mounted to the base at each end – there are two flags mounted to the carriage. These flags are adjustable for either the full range of travel or a limit amount.

The Home Position switch comes with one flag mounted to the base in the centre – with an adjustable flag mounted to the carriage, allowing the home position to be set at any point.

The switches are photoelectric sensors that operate on a supply voltage of 5 to 24V DC. The repeatability is 5 microns, the response time is 100 microseconds. The sensors are available in both NPN and PNP outputs.

Quick fitting hook up cable (3 metres) provided.

Part no.	Order no.	LS ₁	LS ₂
L3141 Lead screw driven stage - Size 1 	L3141.025	50,8	38,1
	L3141.050	76,2	63,5
	L3141.075	101,6	88,9
	L3141.110	152,4	139,7
L3142 Lead screw driven stage - Size 2 	L3142.025	57,2	41,3
	L3142.038	76,2	60,3
	L3142.050	88,9	73,0
	L3142.075	108,0	92,1
	L3142.100	152,4	136,5
L3143 Lead screw driven stage - Size 3 	L3143.025	76,2	60,3
	L3143.050	101,6	85,7
	L3143.075	127,0	111,1
	L3143.100	152,4	136,5
	L3143.150	228,6	212,7
	L3143.200	279,4	262,5
	L3143.250	330,2	314,3
	L3143.300	381,0	365,1