



# Ball Screw Linear Tables

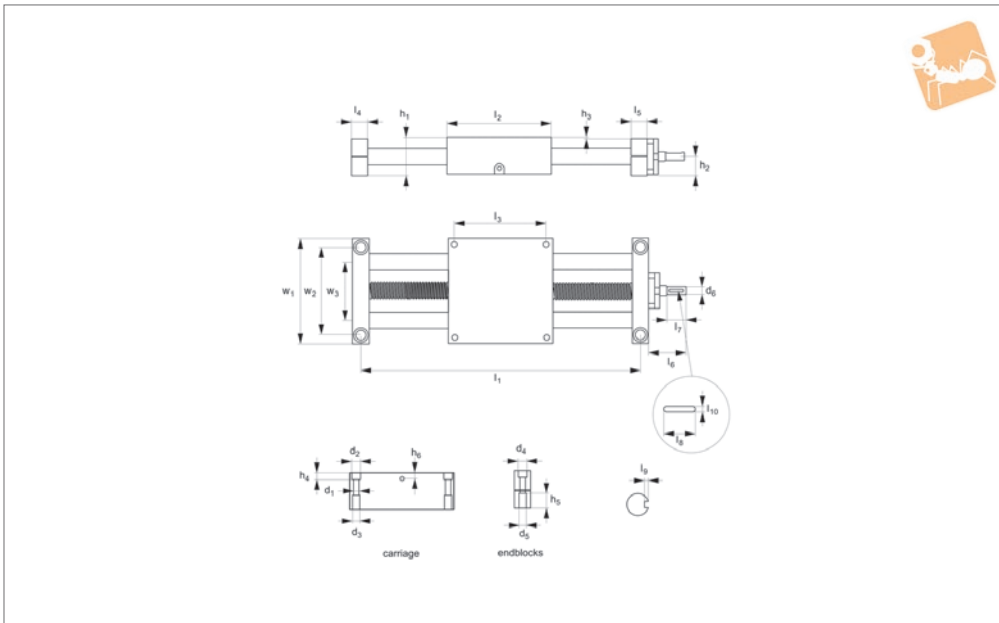
30mm shafts

## Manual Positioning Stages



**L3149.30**

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.

### Technical Notes

Self-aligning linear ball bearings are used

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.

### Tips

Handwheels to suit are available (see part number L1455)

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.

Order No.	Stroke	$l_1$	$h_1$	$l_2$	$l_3$	$l_4$	$l_5$	$l_6$	$l_7$	$l_8$	$l_9$	$l_{10}$	$w_1$	$w_2$	Weight g
L3149.30-0100	100	322	70	200	184	22	22	80	45	36	5	3	200	178	17.1
L3149.30-0150	150	372	70	200	184	22	22	80	45	36	5	3	200	178	25.6
L3149.30-0200	200	422	70	200	184	22	22	80	45	36	5	3	200	178	34.2
L3149.30-0250	250	472	70	200	184	22	22	80	45	36	5	3	200	178	42.7
L3149.30-0300	300	522	70	200	184	22	22	80	45	36	5	3	200	178	51.3
L3149.30-0350	350	572	70	200	184	22	22	80	45	36	5	3	200	178	59.8
L3149.30-0400	400	622	70	200	184	22	22	80	45	36	5	3	200	178	68.4
L3149.30-0450	450	672	70	200	184	22	22	80	45	36	5	3	200	178	76.9
L3149.30-0500	500	722	70	200	184	22	22	80	45	36	5	3	200	178	85.5
L3149.30-0550	550	772	70	200	184	22	22	80	45	36	5	3	200	178	94.0
L3149.30-0600	600	822	70	200	184	22	22	80	45	36	5	3	200	178	102.6
L3149.30-0650	650	872	70	200	184	22	22	80	45	36	5	3	200	178	111.1
L3149.30-0700	700	922	70	200	184	22	22	80	45	36	5	3	200	178	119.7
L3149.30-0750	750	972	70	200	184	22	22	80	45	36	5	3	200	178	128.2
L3149.30-0800	800	1022	70	200	184	22	22	80	45	36	5	3	200	178	136.8
L3149.30-0850	850	1072	70	200	184	22	22	80	45	36	5	3	200	178	145.3
L3149.30-0900	900	1122	70	200	184	22	22	80	45	36	5	3	200	178	153.9
L3149.30-0950	950	1172	70	200	184	22	22	80	45	36	5	3	200	178	162.4
L3149.30-1000	1000	1222	70	200	184	22	22	80	45	36	5	3	200	178	171.0

Order No.	$w_3$	$d_1$	$d_2$	$d_3$	$d_4$	$d_5$	$d_6$	$h_2$	$h_3$	$h_4$	$h_5$	$h_6$	Ball screw dia. x lead	Static load N max.
L3149.30-0100	130	6.8	11	M8x18	13	20	16	36	2	8.5	14	15	32x05	11500
L3149.30-0150	130	6.8	11	M8x18	13	20	16	36	2	8.5	14	15	32x05	11500
L3149.30-0200	130	6.8	11	M8x18	13	20	16	36	2	8.5	14	15	32x05	11500



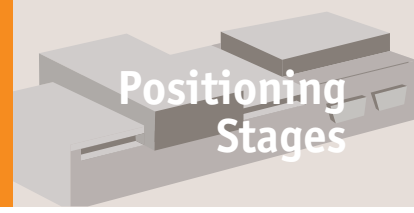
Order No.	w <sub>3</sub>	d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub>	d <sub>4</sub>	d <sub>5</sub>	d <sub>6</sub>	h <sub>2</sub>	h <sub>3</sub>	h <sub>4</sub>	h <sub>5</sub>	h <sub>6</sub>	Ball screw dia. x lead	Static load N max.
<b>L3149.30-0250</b>	130	6.8	11	M8x18	13	20	16	36	2	8.5	14	15	32x05	11500
<b>L3149.30-0300</b>	130	6.8	11	M8x18	13	20	16	36	2	8.5	14	15	32x05	11500
<b>L3149.30-0350</b>	130	6.8	11	M8x18	13	20	16	36	2	8.5	14	15	32x05	11500
<b>L3149.30-0400</b>	130	6.8	11	M8x18	13	20	16	36	2	8.5	14	15	32x05	11500
<b>L3149.30-0450</b>	130	6.8	11	M8x18	13	20	16	36	2	8.5	14	15	32x05	11500
<b>L3149.30-0500</b>	130	6.8	11	M8x18	13	20	16	36	2	8.5	14	15	32x05	10800
<b>L3149.30-0550</b>	130	6.8	11	M8x18	13	20	16	36	2	8.5	14	15	32x05	9000
<b>L3149.30-0600</b>	130	6.8	11	M8x18	13	20	16	36	2	8.5	14	15	32x05	7000
<b>L3149.30-0650</b>	130	6.8	11	M8x18	13	20	16	36	2	8.5	14	15	32x05	5750
<b>L3149.30-0700</b>	130	6.8	11	M8x18	13	20	16	36	2	8.5	14	15	32x05	4800
<b>L3149.30-0750</b>	130	6.8	11	M8x18	13	20	16	36	2	8.5	14	15	32x05	4000
<b>L3149.30-0800</b>	130	6.8	11	M8x18	13	20	16	36	2	8.5	14	15	32x05	3500
<b>L3149.30-0850</b>	130	6.8	11	M8x18	13	20	16	36	2	8.5	14	15	32x05	3000
<b>L3149.30-0900</b>	130	6.8	11	M8x18	13	20	16	36	2	8.5	14	15	32x05	2500
<b>L3149.30-0950</b>	130	6.8	11	M8x18	13	20	16	36	2	8.5	14	15	32x05	2250
<b>L3149.30-1000</b>	130	6.8	11	M8x18	13	20	16	36	2	8.5	14	15	32x05	2000



# Lead Screw Driven Stages

End of travel and home switches

Positioning Stages



## 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 <sub>1</sub>	Ls <sub>2</sub>
<b>L3141 Lead screw driven stage - Size 1</b> 	L3141.025	50,8	38,1
	L3141.050	76,2	63,5
	L3141.075	101,6	88,9
	L3141.110	152,4	139,7
<b>L3142 Lead screw driven stage - Size 2</b> 	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
<b>L3143 Lead screw driven stage - Size 3</b> 	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

ov-end-of-travel-home-switches-rmh - Updated - 01-03-2023