



Ball Screw Linear Tables

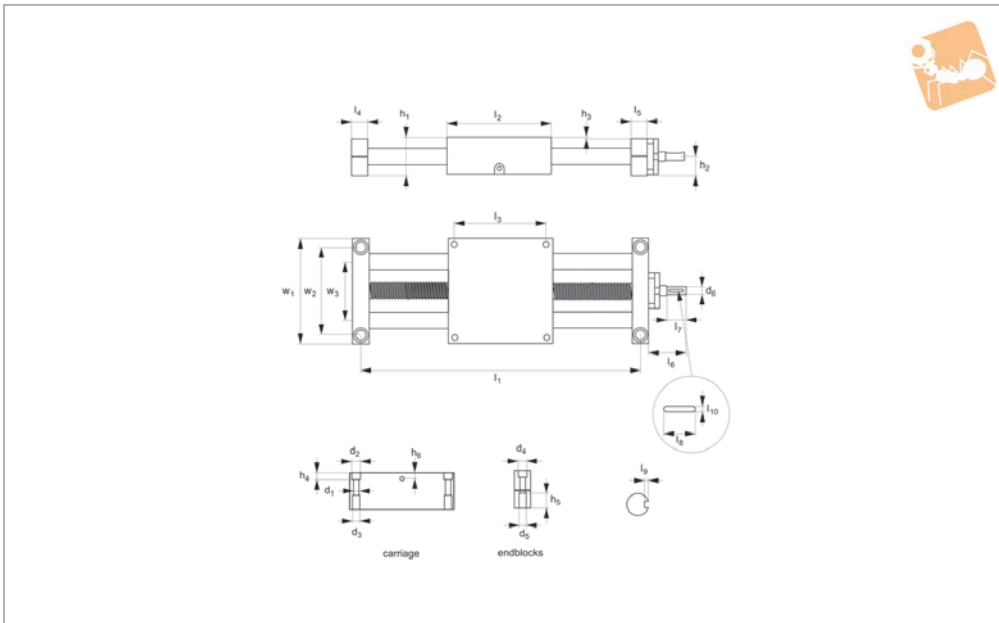
20mm shafts

Manual Positioning Stages



L3149.20

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.

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	l_8	l_9	l_{10}	w_1	w_2	Weight kg
L3149.20-0100	100	250	48	130	115	20	20	49	25	18	3	1.8	130	108	6.4
L3149.20-0150	150	300	48	130	115	20	20	49	25	18	3	1.8	130	108	9.6
L3149.20-0200	200	350	48	130	115	20	20	49	25	18	3	1.8	130	108	12.8
L3149.20-0250	250	400	48	130	115	20	20	49	25	18	3	1.8	130	108	16.0
L3149.20-0300	300	450	48	130	115	20	20	49	25	18	3	1.8	130	108	19.2
L3149.20-0350	350	500	48	130	115	20	20	49	25	18	3	1.8	130	108	22.4
L3149.20-0400	400	550	48	130	115	20	20	49	25	18	3	1.8	130	108	25.6
L3149.20-0450	450	600	48	130	115	20	20	49	25	18	3	1.8	130	108	28.8
L3149.20-0500	500	650	48	130	115	20	20	49	25	18	3	1.8	130	108	32.0
L3149.20-0550	550	700	48	130	115	20	20	49	25	18	3	1.8	130	108	35.2
L3149.20-0600	600	750	48	130	115	20	20	49	25	18	3	1.8	130	108	38.4
L3149.20-0650	650	800	48	130	115	20	20	49	25	18	3	1.8	130	108	41.6
L3149.20-0700	700	850	48	130	115	20	20	49	25	18	3	1.8	130	108	44.8
L3149.20-0750	750	900	48	130	115	20	20	49	25	18	3	1.8	130	108	48.0
L3149.20-0800	800	950	48	130	115	20	20	49	25	18	3	1.8	130	108	51.2
L3149.20-0850	850	1000	48	130	115	20	20	49	25	18	3	1.8	130	108	54.4
L3149.20-0900	900	1050	48	130	115	20	20	49	25	18	3	1.8	130	108	57.6
L3149.20-0950	950	1100	48	130	115	20	20	49	25	18	3	1.8	130	108	60.8
L3149.20-1000	1000	1150	48	130	115	20	20	49	25	18	3	1.8	130	108	64.0

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.
L3149.20-0100	72	6.8	11	M8x18	11	18	10	24	2	8.5	13.5	7.5	16x05	6750
L3149.20-0150	72	6.8	11	M8x18	11	18	10	24	2	8.5	13.5	7.5	16x05	6750
L3149.20-0200	72	6.8	11	M8x18	11	18	10	24	2	8.5	13.5	7.5	16x05	6750

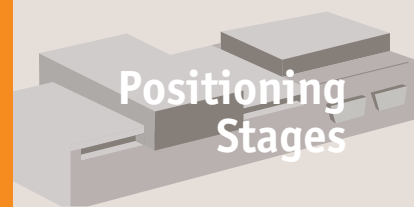


Order No.	w ₃	d ₁	d ₂	d ₃	d ₄	d ₅	d ₆	h ₂	h ₃	h ₄	h ₅	h ₆	Ball screw dia. x lead	Static load N max.
L3149.20-0250	72	6.8	11	M8x18	11	18	10	24	2	8.5	13.5	7.5	16x05	6750
L3149.20-0300	72	6.8	11	M8x18	11	18	10	24	2	8.5	13.5	7.5	16x05	6750
L3149.20-0350	72	6.8	11	M8x18	11	18	10	24	2	8.5	13.5	7.5	16x05	6000
L3149.20-0400	72	6.8	11	M8x18	11	18	10	24	2	8.5	13.5	7.5	16x05	4750
L3149.20-0450	72	6.8	11	M8x18	11	18	10	24	2	8.5	13.5	7.5	16x05	3500
L3149.20-0500	72	6.8	11	M8x18	11	18	10	24	2	8.5	13.5	7.5	16x05	2500
L3149.20-0550	72	6.8	11	M8x18	11	18	10	24	2	8.5	13.5	7.5	16x05	1750
L3149.20-0600	72	6.8	11	M8x18	11	18	10	24	2	8.5	13.5	7.5	16x05	1500
L3149.20-0650	72	6.8	11	M8x18	11	18	10	24	2	8.5	13.5	7.5	16x05	1250
L3149.20-0700	72	6.8	11	M8x18	11	18	10	24	2	8.5	13.5	7.5	16x05	1000
L3149.20-0750	72	6.8	11	M8x18	11	18	10	24	2	8.5	13.5	7.5	16x05	750
L3149.20-0800	72	6.8	11	M8x18	11	18	10	24	2	8.5	13.5	7.5	16x05	750
L3149.20-0850	72	6.8	11	M8x18	11	18	10	24	2	8.5	13.5	7.5	16x05	600
L3149.20-0900	72	6.8	11	M8x18	11	18	10	24	2	8.5	13.5	7.5	16x05	500
L3149.20-0950	72	6.8	11	M8x18	11	18	10	24	2	8.5	13.5	7.5	16x05	400
L3149.20-1000	72	6.8	11	M8x18	11	18	10	24	2	8.5	13.5	7.5	16x05	300



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 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