

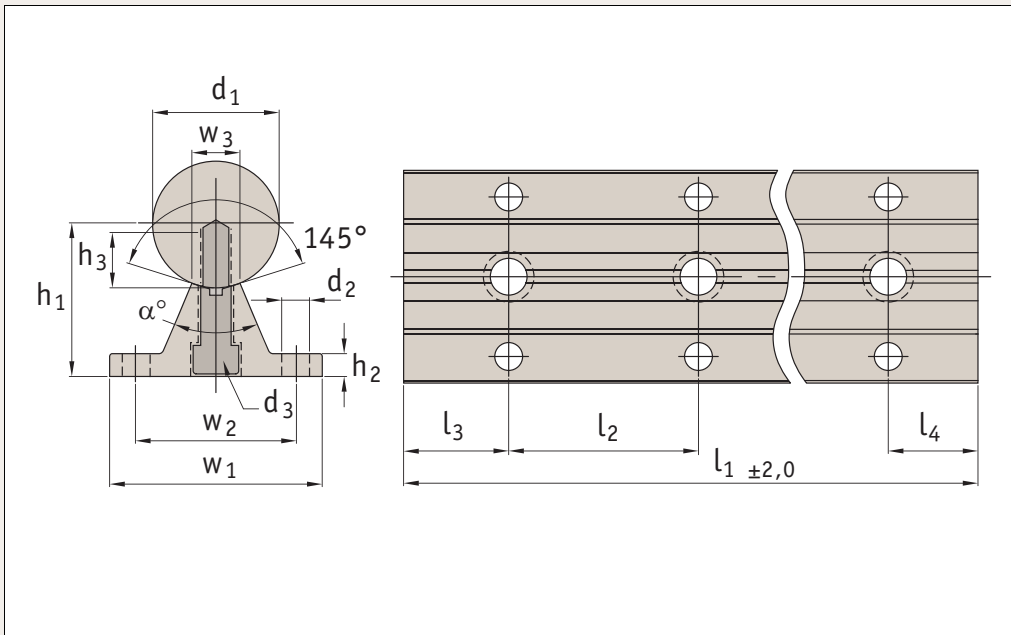
Shaft Support Rails



Shaft Support Rails

complete shaft and rail

Shaft Support Rails



L1780

Material

Hardened and ground steel shaft
(carbon steel 070M55, Cf53 - DIN 1.1213).

Aluminium alloy support rail. Surface hardness of steel shaft - 60 - 66 HR_C.
Aluminium alloy support rail.

Technical Notes

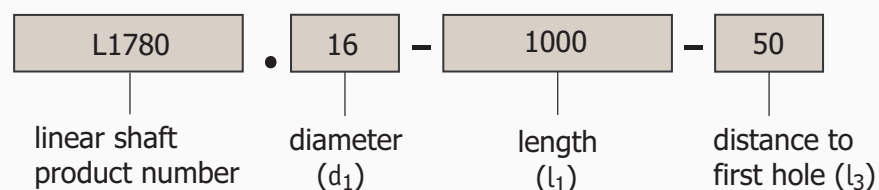
For open linear bushings; ensures a very rigid and stiff system. The shaft is pre-mounted to the shaft support rail.
To order specify length (l_1) and distance to first hole (l_3). Once you advise us of l_1 and l_3 we can calculate l_4 .
Other pitches (l_2) on request.

Tips

For use with linear bearing carriages (see part no. L1755 flanged or L1752 unflanged).
Stainless steel bearings also available, (see part no. L1756 flanged or L1753 unflanged).
On request a stainless steel (usually 440C) shaft can be mounted on the support rail.

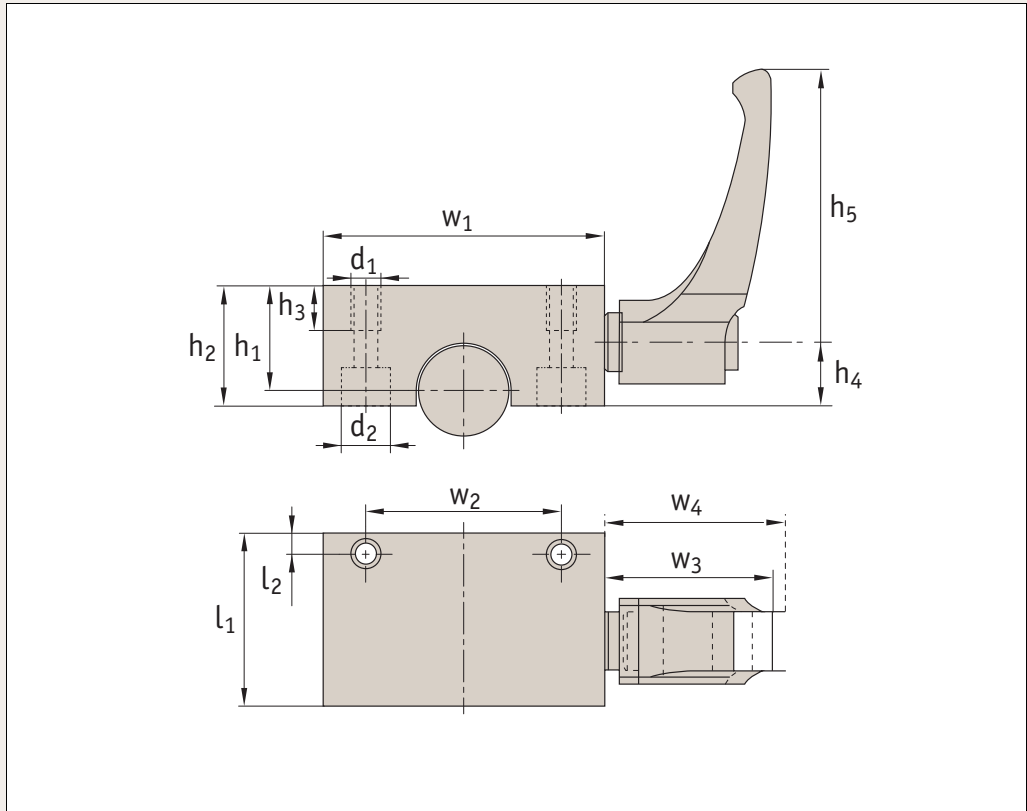
Order No	d_1 h6	l_1 max.	h_1 ±0,01	l_2	w_1	w_2	w_3	d_2	d_3	h_2	h_3	α°
L1780.12-xxxx	12	6000	22	120	40	29	5,8	4,5	M 4x20	5	8	50
L1780.16-xxxx	16	6000	26	150	45	33	7,0	5,5	M 5x20	5	9	50
L1780.20-xxxx	20	6000	32	150	52	37	8,3	6,6	M 6x25	6	11	50
L1780.25-xxxx	25	6000	36	200	57	42	10,8	6,6	M 8x30	6	15	50
L1780.30-xxxx	30	6000	42	200	69	51	11,0	9,0	M10x35	7	17	50
L1780.40-xxxx	40	6000	50	300	73	55	15,0	9,0	M10x40	8	19	50
L1780.50-xxxx	50	6000	60	300	84	63	19,0	11,0	M12x45	9	21	46
L1780.60-xxxx	60	6000	68	300	94	72	25,0	11,0	M14x30	10	25	46
L1780.80-xxxx	80	6000	86	300	116	92	34,0	11,0	M16x60	12	28	46

Ordering Example





L1784



Material

Aluminium body, with hardened steel contact faces.

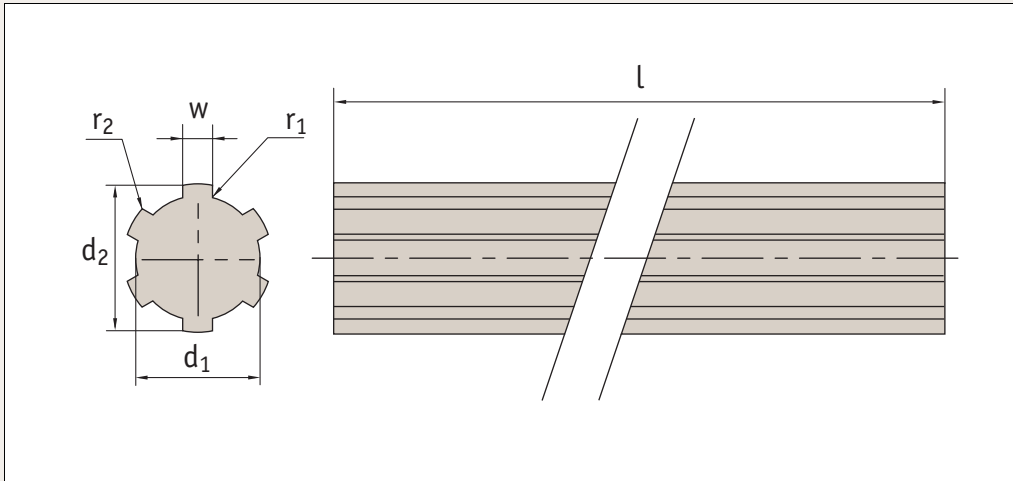
Technical Notes

Activating the clamping lever presses the contact faces into contact with the shaft bar to clamp it in place. For clamping from above use d_1 , for clamping from below use d_2 .

Tips

Use with shaft support rail L1780. Pneumatic shaft clamps also available.

Order No.	Shaft	h_1	l_1	w_1	w_2	w_3	w_4	l_2	h_2	h_3	h_4	h_5	d_1	d_2 for	Torque to Nm	Holding force N
L1784.012	16	18	32	43	32	30,5	33,5	4,5	24	10	16	44	M 5	M 4	5	1200
L1784.016	16	22	38	53	40	30,5	33,5	5,5	29	12	19	44	M 6	M 5	5	1200
L1784.020	20	25	44	60	45	38,5	41,5	6,5	32	14	21,5	63	M 8	M 6	7	1200
L1784.025	25	30	52	78	60	38,5	41,5	9	38	16	25	63	M10	M 8	7	1200
L1784.030	30	35	58	87	68	46,5	50,5	10	43	16	28,5	78	M10	M 8	12	2000
L1784.040	40	45	68	108	86	56,5	61,5	11	53	20	34,5	95	M12	M10	17	2000
L1784.050	50	50	76	132	108	56,5	61,5	12	58	22	40,5	95	M16	M14	17	2000



L1790

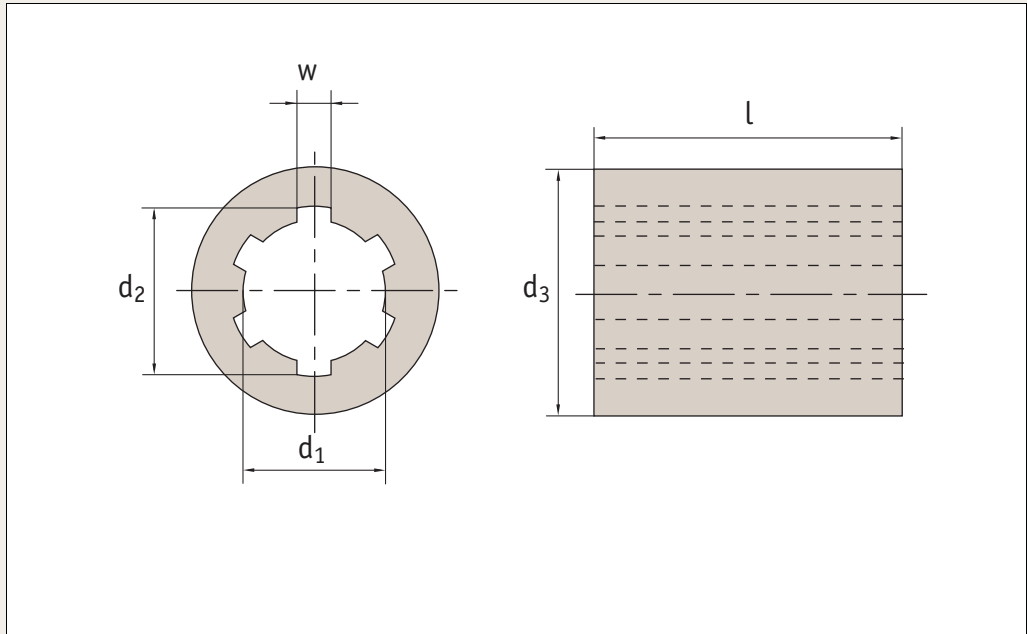
Material
Steel (C40).

Technical Notes
For use with splined bushings part no. L1791.
Torque figures stated are approximate, and dependent on the application. In important cases please consult our Technical department.

Order No.	d ₁ +0.00 -0.08	d ₂ +0.07 -0.27	l	w +0.00 -0.08	No. of splines	Section mm ²	r ₁ 45°	r ₂	Approx. torque Nm	× Kg
L1790.011	11	14	1000	3	6	121,9	0,2	0,2	38	0,9
L1790.013	13	16	1000	3,5	6	164,1	0,2	0,2	45	1,3
L1790.016	16	20	1000	5	6	243,4	0,2	0,2	101	1,9
L1790.018	18	22	1000	5	6	312,4	0,2	0,2	117	2,5
L1790.021	21	25	1000	5	6	399,8	0,2	0,2	130	3,1
L1790.023	23	28	1000	6	6	505,2	0,3	0,3	225	3,9
L1790.026	26	32	1000	6	6	638,6	0,3	0,3	310	5,0
L1790.032	32	38	1000	8	8	947,8	0,3	0,3	598	7,4
L1790.036	36	42	1000	7	8	1185,3	0,3	0,3	649	9,3
L1790.042	42	48	1000	8	8	1576,7	0,3	0,3	732	12,4
L1790.046	46	54	1000	9	8	1949,0	0,5	0,3	1095	15,3



L1791



Material
Steel (9SMnPb 36).

Technical Notes
For use with splined shafts no. L1790.

Order No.	d ₁	d ₂	d _{3 h8}	No. of splines	l	w	X Kg
L1791.011	11	14	18,75	6	30	3	0,03
L1791.013	13	16	21,75	6	40	3,5	0,06
L1791.013-1	13	16	24,75	6	40	3,5	0,09
L1791.016	16	20	27,75	6	40	4	0,11
L1791.018	18	22	31,75	6	40	5	0,15
L1791.021	21	25	35,75	6	45	5	0,21
L1791.023	23	28	39,70	6	45	6	0,25
L1791.026	26	32	44,70	6	45	6	0,32
L1791.032	32	38	49,70	8	50	6	0,38
L1791.036	36	42	59,70	8	70	7	0,89
L1791.042	42	48	69,70	8	80	8	1,38
L1791.046	46	54	81,70	8	90	9	2,33