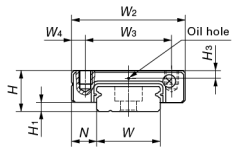
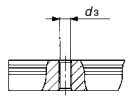
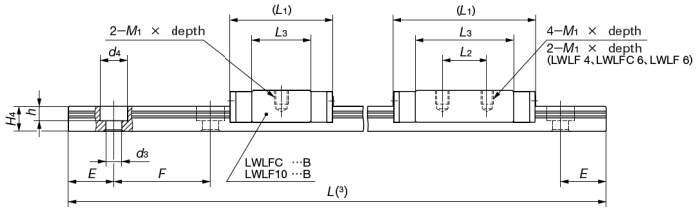
LWLFC, LWLF, LWLFG





Tapped rail specification
LWLF … N

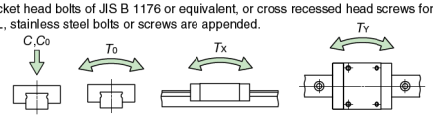


Model number	Interchangeable	Mass (Ref.) g Slide unit	Mass (Ref.) g Track rail (per 100 mm)	Dimensions of assembly mm H	H_1	N	Dimensions of slide unit mm W_2	W_3	W_4	L_1	L_2	L_3	M_1 × depth	H_3	W
LWLF 4(1)		2.1	6.8	4	1	3	10	–	5	17	6.5	11.9	M2 × 1.3	–	4
LWLFC 6(1)		2.4	13	4.5	1	3	12	–	6	15	4.5	9.8	M2 × 1.6	–	6
LWLFC 6…N(1)			12												
LWLF 6(1)		3.4	13							20	8	14.6			
LWLF 6…N(1)			12												
LWLFC 10…B	☆	5.9	28	6.5	1.5	3.5	17	13	2	20.5	–	13.6	M2.5 × 1.5	1.3	10
LWLFC 10…N			29												
LWLF 10…B	☆	7.5	28							24.5		17.6			
LWLF 10…N			29												
LWLFC 14…B	☆	13	54	9	2	5.5	25	19	3	22.5	–	13	M3 × 3	1.7	14
LWLFC 14…N			56												
LWLF 14…B	☆	21	54							31.5	10	22			
LWLF 14…N			56												
LWLFG 14…B	☆	31	54							42	19	32.5			
LWLFG 14…N			56												
LWLFC 18…B	☆	26	90	12	3	6	30	21	4.5	26.5	–	16.6	M3 × 3	2.5	18
LWLFC 18…N			92												
LWLF 18…B	☆	44	90							39	12	28.6			
LWLF 18…N			92												
LWLF 18…BCS	☆		90												
LWLFG 18…B	☆	61						23	3.5	50.5	24	40.4			
LWLFG 18…N			92												

Model number	Dimensions of track rail mm H_4	d_3	d_4	h	E	F	Appended mounting bolt for track rail mm Bolt size × ℓ	Basic dynamic load rating(4) C N	Basic static load rating(4) C_0 N	Static moment rating(4) T_0 N-m	T_X N-m	T_Y N-m	Model number
LWLF 4(1)	2.6	1.8	2.8	0.75	5.0	10	Cross recessed head screw for precision equipment M1.6 × 5	373	703	1.5	1.3 7.3	1.6 8.7	LWLF 4(1)
LWLFC 6(1)	2.8	2.4	4	1.5	7.5	15	Cross recessed head screw for precision equipment M2 × 4	321	562	1.7	0.87 5.3	1.0 6.3	LWLFC 6(1)
LWLFC 6…N(1)		M 3 Through	–	–			(not appended)(2)						LWLFC 6…N(1)
LWLF 6(1)		2.4	4	1.5			Cross recessed head screw for precision equipment M2 × 4	421	843	2.6	1.9 10.2	2.2 12.2	LWLF 6(1)
LWLF 6…N(1)		M 3 Through	–	–			(not appended)(2)						LWLF 6…N(1)
LWLFC 10…B	4	2.9	4.8	1.6	10	20	Cross recessed head screw for precision equipment M2.5 × 7	643	1 220	6.3	2.7 15.4	2.3 13.0	LWLFC 10…B
LWLFC 10…N		M 3 Through	–	–			(not appended)(2)						LWLFC 10…N
LWLF 10…B		2.9	4.8	1.6			Cross recessed head screw for precision equipment M2.5 × 7	760	1 570	8.1	4.4 23.3	3.7 19.5	LWLF 10…B
LWLF 10…N		M 3 Through	–	–			(not appended)(2)						LWLF 10…N
LWLFC 14…B	5.5	3.5	6	3.2	15	30	Hexagon socket head bolt M3 × 8	1 120	1 770	12.6	4.0 25.6	3.3 21.4	LWLFC 14…B
LWLFC 14…N		M 4 Through	–	–			(not appended)(2)						LWLFC 14…N
LWLF 14…B		3.5	6	3.2			Hexagon socket head bolt M3 × 8	1 580	2 940	21.0	10.4 56.7	8.7 47.6	LWLF 14…B
LWLF 14…N		M 4 Through	–	–			(not appended)(2)						LWLF 14…N
LWLFG 14…B		3.5	6	3.2			Hexagon socket head bolt M3 × 8	2 040	4 320	30.9	21.8 108	18.3 90.8	LWLFG 14…B
LWLFG 14…N		M 4 Through	–	–			(not appended)(2)						LWLFG 14…N
LWLFC 18…B	7	3.5	6.5	4.5	15	30	Hexagon socket head bolt M3 × 8	1 360	2 200	20.1	5.8 37.2	4.8 31.3	LWLFC 18…B
LWLFC 18…N		M 4 Through	–	–			(not appended)(2)						LWLFC 18…N
LWLF 18…B		3.5	6.5	4.5			Hexagon socket head bolt M3 × 8	2 010	3 960	36.2	17.5 93.4	14.7 78.4	LWLF 18…B
LWLF 18…N		M 4 Through	–	–			(not appended)(2)						LWLF 18…N
LWLF 18…BCS		3.5	6.5	4.5			Hexagon socket head bolt M3 × 8						LWLF 18…BCS
LWLFG 18…B								2 500	5 500	50.3	33.0 165	27.7 139	LWLFG 18…B
LWLFG 18…N		M 4 Through	–	–			(not appended)(2)						LWLFG 18…N

Note(1): Steel balls are not retained in LWLF 4, LWLFC 6, LWLFC 6…N, LWLF 6, and LWLF 6…N. These models are not provided with end seals and an oil hole.
(2): Prepare track rail mounting bolts with a proper bolt length l such that the fixing depth becomes less than H_4.
(3): Track rail lengths L are shown in Table 17.
(4): The directions of basic dynamic load rating (C), basic static load rating (C_0), and static moment rating (T_0, T_X, and T_Y) are shown in the sketches below.
The upper values in the T_X and T_Y columns apply to one slide unit, and the lower values apply to two slide units in close contact.

Remarks 1. The mark ☆ indicates that interchangeable specification products are available.
2. The appended bolts for mounting track rails are hexagon socket head bolts of JIS B 1176 or equivalent, or cross recessed head screws for precision equipment. For stainless steel series Linear Way L, stainless steel bolts or screws are appended.



Example of identification number of assembled set

LWLF 18 C2 R240 B CS T1 P S1 /U

- **Model code**: LWLFC, LWLF, LWLFC…B, LWLF …B, LWLFG…B, LWLFC…N, LWLF …N, LWLFG…N
- **Size of rolling guide**: 18
- **Number of slide units (two slide units)**: C2
- **Length of track rail (240mm)**: R240
- **Material**: Stainless steel made : No symbol; High carbon steel made : CS
- **Preload amount**: Clearance : T_0; Standard : No symbol; Light preload : T_1
- **Accuracy class**: High : H; Precision : P
- **Interchangeable code**: Selected group 1 : S1; Selected group 2 : S2
- **Special specification**: With under seals

1N=0.102kgf=0.2248lbs.
1mm=0.03937inch