

LW LOAD WASHER (U.S. & METRIC)

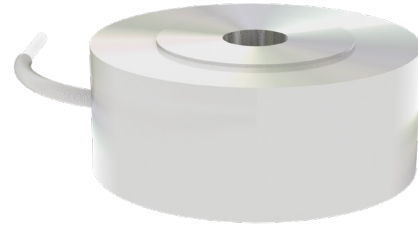
FEATURES & BENEFITS

- Capacities from 5 to 100k lbf (0.02 to 44.5 kN)
- Wide selection of OD, ID, and height (as low as 0.25 in or 6.4 mm) combinations
- Stainless steel construction

SPECIFICATIONS

PARAMETERS	MODEL	
	LW10xx LW12xx	LW15xx LW20xx LW25xx LW30xx LW31xx LW40xx LW45xx
ACCURACY – (MAX ERROR)		
Combined Error – %FS	±1.0	±0.5
TEMPERATURE		
Compensated Range	°F	+60 to +160
	°C	+16 to +71
Operating Range	°F	-65 to +250
	°C	-54 to +121
Effect On Zero – %RO MAX	°F	±0.005
	°C	±0.009
ELECTRICAL		
Rated Output – mV/V (Nominal)	2.00	
Bridge Resistance – Ohm (Nominal)	350	
Excitation Voltage – VDC MAX	15	
MECHANICAL		
Safe Overload – % of RO	150	
Deflection @ R.O.	in	0.003
	mm	0.08
Material	Stainless steel	

STANDARD CONFIGURATION



Model LW (Shown)

OPTIONS

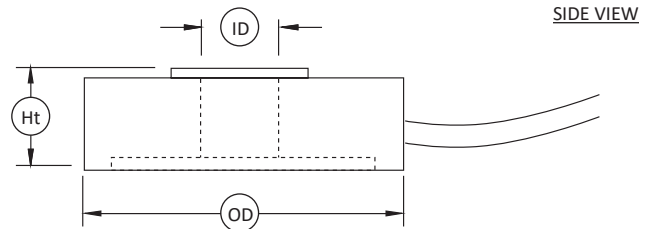
- Cable length
- Add connector to cable
- Transducer Electronic Data Sheet (TEDS)
- Custom calibration accessories

ACCESSORIES

- Instrumentation

CONNECTOR OPTIONS

- 5 ft (1.5 m) integral cable (LW)



***Height is**

- 0.37 in. (9.4 mm) for 5.000 lbf (0.02 kN) thru 100.000 lbf (0.44 kN)
- 0.63 in. (16.0 mm) for 250.000 lbf (1.11 kN) thru 10k lbf (44.5 kN)

****Height is**

- 1.00 in. (25.4 mm) for 1k lbf (4.45 kN) thru 50k lbf (222 kN)
- 2.00 in. (50.8 mm) for 100k lbf (44.5 kN)

DIMENSIONS

MODEL LW	OD		ID		HEIGHT		CAPACITY	
	in	mm	in	mm	in	mm	U.S. (lbf)	Metric (kN)
	1010	1.00	25.4	0.100	2.54	0.28	7.1	5, 10, 25, 50, 100, 200
1012	1.00	25.4	0.125	3.18	0.28	7.1	5, 10, 25, 50, 100, 200	0.02, 0.04, 0.11, 0.22, 0.44, 0.89
1019	1.00	25.4	0.188	4.78	0.28	7.1	5, 10, 25, 50, 100, 200	0.02, 0.04, 0.11, 0.22, 0.44, 0.89
1020	1.00	25.4	0.200	5.08	0.28	7.1	5, 10, 25, 50, 100, 200	0.02, 0.04, 0.11, 0.22, 0.44, 0.89
1025	1.00	25.4	0.250	6.35	0.28	7.1	5, 10, 25, 50, 100, 200	0.02, 0.04, 0.11, 0.22, 0.44, 0.89
1210	1.25	31.75	0.100	2.54	0.25	6.35	25, 50, 100, 250, 500	0.11, 0.22, 0.44, 1.11, 2.22
1212	1.25	31.75	0.125	3.18	0.25	6.35	25, 50, 100, 250, 500	0.11, 0.22, 0.44, 1.11, 2.22
1219	1.25	31.75	0.188	4.78	0.25	6.35	25, 50, 100, 250, 500	0.11, 0.22, 0.44, 1.11, 2.22
1220	1.25	31.75	0.200	5.08	0.25	6.35	25, 50, 100, 250, 500	0.11, 0.22, 0.44, 1.11, 2.22
1225	1.25	31.75	0.250	6.35	0.25	6.35	25, 50, 100, 250, 500	0.11, 0.22, 0.44, 1.11, 2.22
1231	1.25	31.75	0.312	7.92	0.25	6.35	25, 50, 100, 250, 500	0.11, 0.22, 0.44, 1.11, 2.22
1238	1.25	31.75	0.375	9.53	0.25	6.35	25, 50, 100, 250, 500	0.11, 0.22, 0.44, 1.11, 2.22

* Metric dimensions and capacities are provided for conversion only. Standard product will be sold in lbf and U.S. dimensions. Metric capacities available upon special request and at an additional cost.

LW LOAD WASHER (U.S. & METRIC)

DIMENSIONS (CONTINUED)

MODEL LW	OD		ID		HEIGHT		CAPACITY	
	in	mm	in	mm	in	mm	U.S. (lbf)	Metric (kN)
1510	1.50	38.1	0.100	2.54	0.50	12.7	100, 250, 500, 1K, 2K, 3K, 5K	0.44, 1.11, 2.22, 4.45, 8.90, 13.3, 22.2
1513	1.50	38.1	0.125	3.18	0.50	12.7	100, 250, 500, 1K, 2K, 3K, 5K	0.44, 1.11, 2.22, 4.45, 8.90, 13.3, 22.2
1520	1.50	38.1	0.200	5.08	0.50	12.7	100, 250, 500, 1K, 2K, 3K, 5K	0.44, 1.11, 2.22, 4.45, 8.90, 13.3, 22.2
1525	1.50	38.1	0.250	6.35	0.50	12.7	100, 250, 500, 1K, 2K, 3K, 5K	0.44, 1.11, 2.22, 4.45, 8.90, 13.3, 22.2
1531	1.50	38.1	0.312	7.92	0.50	12.7	100, 250, 500, 1K, 2K, 3K, 5K	0.44, 1.11, 2.22, 4.45, 8.90, 13.3, 22.2
1538	1.50	38.1	0.375	9.53	0.50	12.7	100, 250, 500, 1K, 2K, 3K, 5K	0.44, 1.11, 2.22, 4.45, 8.90, 13.3, 22.2
1550	1.50	38.1	0.500	12.70	0.50	12.7	100, 250, 500, 1K, 2K, 3K, 5K	0.44, 1.11, 2.22, 4.45, 8.90, 13.3, 22.2
2013	2.00	50.8	0.125	3.18	*		5, 10, 25, 50, 250, 500, 1K	0.02, 0.04, 0.11, 0.22, 1.11, 2.22, 4.45
2019	2.00	50.8	0.188	4.78	*		5, 10, 25, 50, 250, 500, 1K, 2K	0.02, 0.04, 0.11, 0.22, 1.11, 2.22, 4.45, 8.90
2025	2.00	50.8	0.250	6.35	*		5, 10, 25, 50, 250, 500, 1K, 2K, 3K, 5K	0.02, 0.04, 0.11, 0.22, 1.11, 2.22, 4.45, 8.90, 13.3, 22.2
2038	2.00	50.8	0.375	9.53	*		5, 10, 25, 50, 250, 500, 1K, 2K, 3K, 5K, 7.5K, 10K	0.02, 0.04, 0.11, 0.22, 1.11, 2.22, 4.45, 8.90, 13.3, 22.2, 33.4, 44.5
2050	2.00	50.8	0.500	12.70	*		5, 10, 25, 50, 250, 500, 1K, 2K, 3K, 5K, 7.5K, 10K	0.02, 0.04, 0.11, 0.22, 1.11, 2.22, 4.45, 8.90, 13.34, 22.2, 33.4, 44.5
2063	2.00	50.8	0.625	15.88	*		5, 10, 25, 50, 250, 500, 1K, 2K, 3K, 5K	0.02, 0.04, 0.11, 0.22, 1.11, 2.22, 4.45, 8.90, 13.3, 22.2
2075	2.00	50.8	0.750	19.05	*		250, 500, 1K, 2K, 3K, 5K	1.11, 2.22, 4.45, 8.90, 22.2
2088	2.00	50.8	0.875	22.23	*		250, 500, 1K, 2K, 3K	1.11, 2.22, 4.45, 8.90, 13.3
20100	2.00	50.8	1.000	25.40	*		500, 1K, 2K	2.22, 4.45, 8.90
2525	2.50	63.5	0.250	6.35	1.00	25.4	1K, 2K, 3K	4.45, 8.90, 13.3
2538	2.50	63.5	0.375	9.53	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5
2550	2.50	63.5	0.500	12.70	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K, 15K, 20K, 30K, 40K, 50K, 75K, 100K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5, 66.7, 89, 133, 178, 222, 334, 445
2563	2.50	63.5	0.625	15.88	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K, 15K, 20K, 30K, 40K, 50K, 75K, 100K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5, 66.7, 89, 133, 178, 222, 334, 445
2575	2.50	63.5	0.750	19.05	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K, 15K, 20K, 30K, 40K, 50K, 75K, 100K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5, 66.7, 89, 133, 178, 222, 334, 445
2588	2.50	63.5	0.875	22.23	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K, 15K, 20K, 30K, 40K, 50K, 75K, 100K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5, 66.7, 89, 133, 178, 222, 334, 445
2594	2.50	63.5	0.938	23.83	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K, 15K, 20K, 30K, 40K, 50K, 75K, 100K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5, 66.7, 89, 133, 178, 222, 334, 445
25100	2.50	63.5	1.000	25.40	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K, 15K, 20K, 30K, 40K, 50K, 75K, 100K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5, 66.7, 89, 133, 178, 222, 334, 445
25113	2.50	63.5	1.130	28.70	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5
25125	2.50	63.5	1.250	31.75	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5
25138	2.50	63.5	1.380	35.05	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5
25150	2.50	63.5	1.500	38.10	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5
3025	3.00	76.2	0.250	6.35	1.00	25.4	1K, 2K, 3K	4.45, 8.90, 13.3
3038	3.00	76.2	0.375	9.53	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5
3050	3.00	76.2	0.500	12.70	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K, 15K, 20K, 30K, 40K, 50K, 75K, 100K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5, 66.7, 89, 133, 178, 222, 334, 445
3063	3.00	76.2	0.625	15.88	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K, 15K, 20K, 30K, 40K, 50K, 75K, 100K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5, 66.7, 89, 133, 178, 222, 334, 445
3075	3.00	76.2	0.750	19.05	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K, 15K, 20K, 30K, 40K, 50K, 75K, 100K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5, 66.7, 89, 133, 178, 222, 334, 445
3088	3.00	76.2	0.875	22.23	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K, 15K, 20K, 30K, 40K, 50K, 75K, 100K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5, 66.7, 89, 133, 178, 222, 334, 445
3094	3.00	76.2	0.938	23.83	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K, 15K, 20K, 30K, 40K, 50K, 75K, 100K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5, 66.7, 89, 133, 178, 222, 334, 445

LW v2.3 03-11-2020

LW LOAD WASHER (U.S. & METRIC)

DIMENSIONS (CONTINUED)

MODEL LW	OD		ID		HEIGHT		CAPACITY	
	in	mm	in	mm	in	mm	U.S. (lbf)	Metric (kN)
30100	3.00	76.2	1.000	25.40	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K, 15K, 20K, 30K, 40K, 50K, 75K, 100K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5, 66.7, 89, 133, 178, 222, 334, 445
30113	3.00	76.2	1.130	28.70	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5
30125	3.00	76.2	1.250	31.75	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5
30138	3.00	76.2	1.380	35.05	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5
30150	3.00	76.2	1.500	38.10	1.00	25.4	1K, 2K, 3K, 5K, 7.5K, 10K	4.45, 8.90, 13.3, 22.2, 33.4, 44.5
31200	3.13	79.5	2.000	50.80	0.50	12.7	1K, 3K, 5K	4.45, 13.3, 22.2
31213	3.13	79.5	2.130	54.10	0.50	12.7	1K, 3K, 5K	4.45, 13.3, 22.2
40200	4.00	101.6	2.00	50.8	**		1K, 3K, 5K, 10K, 25K, 50K, 100K	4.45, 13.3, 22.2, 44.5, 111, 222, 445
40213	4.00	101.6	2.130	54.10	**		1K, 3K, 5K, 10K, 25K, 50K, 100K	4.45, 13.3, 22.2, 44.5, 111, 222, 445
45300	4.50	114.3	3.000	76.20	1.25	31.8	1K, 3K, 5K, 10K	4.45, 13.3, 22.2, 44.5
45313	4.50	114.3	3.130	79.50	1.25	31.8	1K, 3K, 5K, 10K	4.45, 13.3, 22.2, 44.5