



## WL-STLC Wireless Load Shackle

### Description

The WL-STLC series of wireless load shackles are manufactured using the Crosby™ G-2130 (12 to 25 tonne) and G-2140 (40 to 400 tonne) shackles. Versions are also available using the popular GreenPin™ range of shackles. The built in telemetry electronics operates on the 2.4GHz license free frequency.

The unique telemetry housing is manufactured from tough high performance polyamide resin making it strong yet light, resulting in a better balanced wireless load shackle when compared to others available on the market. Two clips enable you to open the housing to access and change the two AAA lithium batteries, while the internal electronics underneath remain completely sealed. This includes the antenna to ensure maximum protection from damage.

The WL-STLC is available with a handheld battery powered display, or alternatively, for multi-shackle applications, a single display can address up to 12 shackles for individual monitoring, or for summation/balancing applications.

Load Cell Central can also supply more complex wireless load cell systems. For further information on what we can offer, please contact our sales department with details of your application requirements.

### Specification

Rated load (tonnes)	12, 17, 25, 40, 55, 85, 120, 150, 200, 300, 400
Proof load	150% of full scale
Ultimate breaking load	300% of full scale
Non-linearity	<±1% of full scale (typically)
Non-repeatability	<±0.1% of full scale
Transmission distance	Up to 600 meters (clear line of sight)
Battery life	>300 hours typically (continuous use with 1.2Ah batteries)
Battery	2 x AAA Alkaline (supplied with 1.2Ah batteries)
Operating temperature range	-20 to +55°C
Environmental protection level	IP67
Telemetry housing	Polyamide resin

### Available Options

- Special capacities up to 2000te
- Integral signal conditioning
- Centralizing load bobbin
- Special wireless systems available

### Features

- Ranges from 1 to 400 tonnes
- High tensile carbon steel construction
- Environmentally sealed to IP67
- Simple installation and operation
- Shackle and load pin fully certified
- Optional load centralising bobbin
- Can be supplied with amplified output
- Many other options available

### Typical Applications

- Under-hook hoist/crane weighing
- Cable tension monitoring
- Towing/mooring Tension
- Crane safe load monitoring
- Beam proof loading

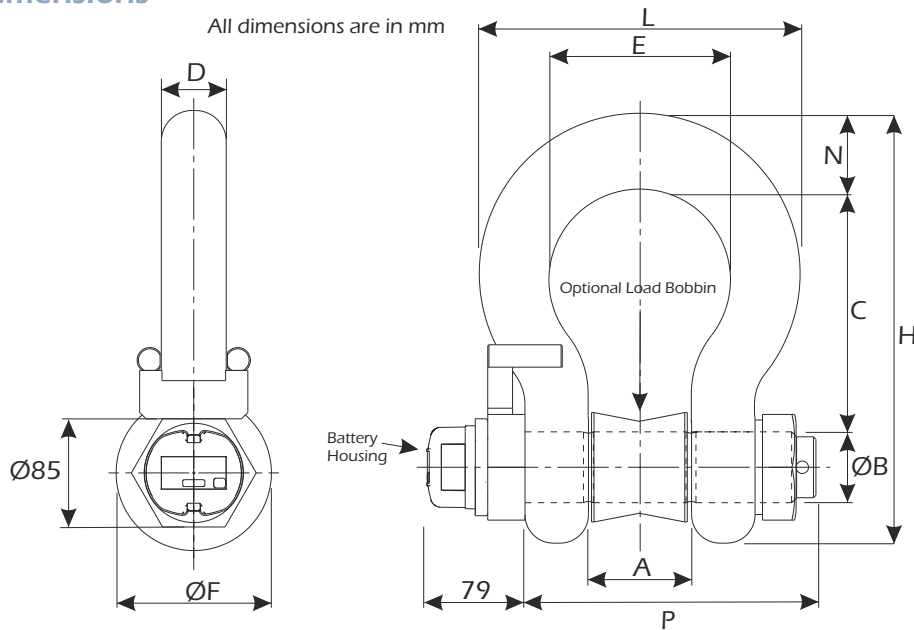
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### Special Options

Special ranges	The WL-STLC can be supplied in any range, between 12te and 400te and calibrated as required. Usually we will choose the nearest standard shackle size. We can also offer special design shackles up to 2000te. Please contact our sales team for more details.
Centralizing bobbin	We can offer an optional centralizing bobbin. This helps improve the overall load cell accuracy in certain cable tension applications. The bobbin is shown in the drawing below.
Multi-shackle systems	It is possible with the standard handheld wireless display to use up to 12 shackles with a single handheld. Each shackle is paired with the handheld and can be used to view individual load cells or summated load cells. These values can be sent to a printer or a PC.



### Dimensions



Rating (tonnes)	A	ØB	C	D	E	ØF	H	L	N	P	Weight (kgs)	Resolution (tonnes)
12	51.5	35.1	119	31.8	82.5	76	210	146	35.1	171	8	0.01
17	60.5	41.4	146	38.1	98.5	92	254	175	41.1	201	12	0.02
25	73	51	178	44.5	127	106	313	225	57	236	18	0.02
40	73.2	50.8	178	46.7	127	106	313	224	57.2	236	18	0.05
55	82.6	57.2	197	52.8	146	122	347	258	61	269	25	0.05
85	105	69.9	267	68.8	184	148	455	324	79.2	351	45	0.1
120	127	82.6	330	79.2	200	165	546	371	92.2	387	85	0.1
150	133	95.3	372	95.3	229	203	632	432	105	448	125	0.1
200	184	121	386	116	279	267	706	529	127	587	205	0.2
300	213	152	475	124	330	330	871	629	154	646	359	0.2
400	225	175	680	165	325	350	1078	655	165	700	560	0.5