

Ron 2150 Shackle Type Dynamometer with 2"/50mm Attachable Display

TECHNICAL SPECIFICATIONS



Safety Factor: 5:1.

Proof Load: Each system proof-loaded to 200% of capacity (certified) up to a test force of 400t.

Accuracy: $\pm 0.1\%$ of full range.

Durability: Robust indicator with extruded aluminum housing, polyurethane coated.

Display: 5 digit, 2" (50mm) liquid crystal display with two overload warning levels, max. value (peak hold), low battery, tare state (gross or net), measuring unit, sleep state, programming instructions. Standard number of measurements per second: 1. Standard display update rate per second: 1.

Sampling Rate: 200 per second.

Functions: Zero. Tare. Battery charge level. Low battery warning. Max. (peak hold). Two-level overload visual alarms. User calibration. Sleep mode after 60 sec. in zero value, awakes automatically when loaded.

Units: User selectable units (metric tons, short tons (2000 lbs), kgs, lbs (lbs x 10 for capacities of 50t and above), newtons, deca newtons, k. newtons).

Load Cell Material: Made of high-strength, aerospace quality, alloy steel, polyurethane coated.

Indicator Material: Extruded aluminum.

Power: 3 x AA 1.5 Volt Alkaline disposable batteries, with battery life indication. Batteries rated 3AH will function up to 2000 hours (three months of continuous working). Occasional use will extend the life of the batteries up to several years. Adding certain options will shorten the life of the batteries. All settings retained at power off.

Calibration: User calibration. Initial factory calibration, fully traceable (certified).

Temperature Range:

Load cell: -15°F to $+175^{\circ}\text{F}$ (-25°C to $+80^{\circ}\text{C}$).

Indicator: -4°F to $+158^{\circ}\text{F}$ (-20°C to $+70^{\circ}\text{C}$).

Environmental: Weather proof NEMA4, IP 65.



Shackles not included

| Cat no. | Full range | | Resolution | | Load Cell weight | | Cable length | | H1 (max.) | | H2 (max.) | | B (max.) | | Ø D1 (max.) | | Ø D2 (min.) | | Matching anchor shackle size* |
|---------|------------|--|------------|-----|------------------|-----|--------------|----|-----------|------|-----------|------|----------|------|-------------|------|-------------|------|---------------------------------------|
| | tons | | kgs | lbs | kgs | lbs | m | ft | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch | |
| S-005 | 0.5 | | 0.2 | 0.5 | 0.3 | 0.7 | 5 | 16 | 125 | 4.9 | 92 | 3.7 | 16 | 0.7 | 31 | 1.3 | 17 | 0.66 | 1/2 7/16 3/8 |
| S-01 | 1 | | 0.5 | 1 | 0.3 | 0.7 | 5 | 16 | 125 | 4.9 | 92 | 3.7 | 16 | 0.7 | 31 | 1.3 | 17 | 0.66 | 1/2 7/16 3/8 |
| S-02 | 2 | | 1 | 2 | 0.3 | 0.7 | 5 | 16 | 125 | 4.9 | 92 | 3.7 | 16 | 0.7 | 31 | 1.3 | 17 | 0.66 | 1/2 7/16 3/8 |
| S-03 | 3 | | 1 | 2 | 0.3 | 0.7 | 5 | 16 | 137 | 5.4 | 100 | 4 | 19 | 0.75 | 38 | 1.5 | 21 | 0.82 | 5/8 1/2 |
| S-05 | 5 | | 2 | 5 | 0.5 | 1 | 5 | 16 | 147 | 5.8 | 105 | 4.2 | 26 | 1 | 43 | 1.7 | 23 | 0.9 | 3/4 5/8 |
| S-10 | 10 | | 5 | 10 | 1.4 | 3.1 | 5 | 16 | 195 | 7.7 | 131 | 5.2 | 41 | 1.6 | 61 | 2.4 | 36 | 1.4 | 1 1/4 1 1/8 1 |
| S-12 | 12.5 | | 5 | 10 | 1.4 | 3.1 | 5 | 16 | 195 | 7.7 | 131 | 5.2 | 41 | 1.6 | 61 | 2.4 | 36 | 1.4 | 1 1/4 1 1/8 1 |
| S-15 | 15 | | 5 | 10 | 2.5 | 5.5 | 5 | 16 | 220 | 8.7 | 141 | 5.6 | 45 | 1.7 | 74 | 3 | 40 | 1.5 | 1 3/8 1 1/4 1 1/8 |
| S-20 | 20 | | 10 | 20 | 2.5 | 5.5 | 5 | 16 | 220 | 8.7 | 141 | 5.6 | 45 | 1.7 | 74 | 3 | 40 | 1.5 | 1 3/8 |
| S-25 | 25 | | 10 | 20 | 3.7 | 8 | 5 | 16 | 240 | 9.4 | 150 | 5.9 | 58 | 2.3 | 87 | 3.4 | 44 | 1.7 | 1 1/2 |
| S-30 | 30 | | 10 | 20 | 3.7 | 8 | 5 | 16 | 240 | 9.4 | 150 | 5.9 | 58 | 2.3 | 87 | 3.4 | 44 | 1.7 | 1 1/2 |
| S-40 | 40 | | 20 | 50 | 8 | 17 | 10 | 32 | 320 | 12.6 | 195 | 7.7 | 71 | 2.8 | 115 | 4.5 | 60 | 2.3 | 2 1 3/4 |
| S-50 | 50 | | 20 | 50 | 8 | 17 | 10 | 32 | 320 | 12.6 | 195 | 7.7 | 71 | 2.8 | 115 | 4.5 | 60 | 2.3 | 2 |
| S-80 | 80 | | 50 | 100 | 18 | 40 | 10 | 32 | 405 | 16.9 | 255 | 10 | 97 | 3.8 | 145 | 5.7 | 76 | 3 | 2 1/2 |
| S-100 | 100 | | 50 | 100 | 28 | 60 | 15 | 49 | 450 | 17.7 | 275 | 10.8 | 121 | 4.8 | 165 | 6.5 | 81 | 3.18 | CROSBY No. 2160 125t |
| S-125 | 125 | | 50 | 100 | 28 | 60 | 15 | 49 | 450 | 17.7 | 275 | 10.8 | 121 | 4.8 | 165 | 6.5 | 81 | 3.18 | CROSBY No. 2160 125t |
| S-200 | 200 | | 100 | 200 | 57 | 121 | 15 | 49 | 575 | 22.6 | 350 | 13.8 | 145 | 5.7 | 210 | 8.3 | 106 | 4.2 | CROSBY No. 2160 200t |
| S-250 | 250 | | 100 | 200 | 106 | 225 | 15 | 49 | 800 | 31.5 | 490 | 19.3 | 178 | 7.0 | 260 | 10.2 | 138 | 5.4 | CROSBY No. 2140 250t or No. 2160 300t |
| S-300 | 300 | | 100 | 200 | 106 | 225 | 15 | 49 | 800 | 31.5 | 490 | 19.3 | 178 | 7.0 | 260 | 10.2 | 138 | 5.4 | CROSBY No. 2160 300t |

> USE SHACKLES WITH S.W.L. (SAFE WORKING LOAD) EQUAL TO, OR GREATER THAN SYSTEM'S FULL RANGE.

> The company reserves the right to make changes without notice.

OPTIONS



- > 1 or 2 user-adjustable set points
- > Additional 0.5"/12mm LCD display with cable connection to indicator or wireless
- > Additional 1"/25mm LCD display with cable connection to indicator or wireless
- > Additional 2"/50mm LCD display with cable connection to indicator or wireless
- > Additional 5"/125mm LED display with cable connection to indicator or wireless
- > Additional extension cable in 15ft/5m increments
- > Analog output: 0 to 1V / 0 to 2V / 0 to 3V
- > Analog output: 4 to 20 mA
- > Baud rate, user-selectable
- > Carrying case: Pelican or equivalent.
- > Dampened (average) display for unstable load
- > Data logger - manual or automatic - up to 600 measurements
- > Data logger - manual or automatic - up to 3,000 measurements
- > Data logger - manual or automatic - up to 6,000 measurements
- > Data logger - manual or automatic - up to 10,000 measurements
- > IP 67 load cell with special off-shore connectors
- > IP 68 load cell with underwater capability
- > Longer extension cable in 15ft/5m increments
- > Number of measurements per seconds: Up to 200 factory set
- > Real-time clock
- > Rechargeable batteries with an external charger
- > Rope falls multiplier, user selectable
- > RS-232 - continuous or on demand data output, user-selectable
- > RS-485 - continuous or on demand data output, user-selectable
- > Totalizer
- > Wireless communication to additional display or PC
- > USB