

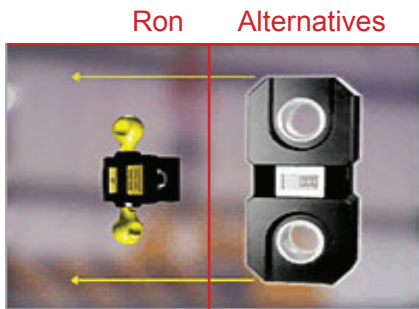


Ron 2150 Shackle Type Dynamometer with 2"/50mm Attachable Display

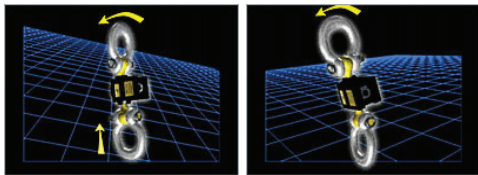
Short delivery time:
 Usually 2 - 4 business days.

High quality Aerospace Steel
 for increased strength and safety.

Exceptionally small dimensions
 enable minimum headroom loss
 and portability.
 For example: Height of the 12.5t
 load cell is 5.2 inch / 131 mm
 Weight: 3.1lbs / 1.4kg



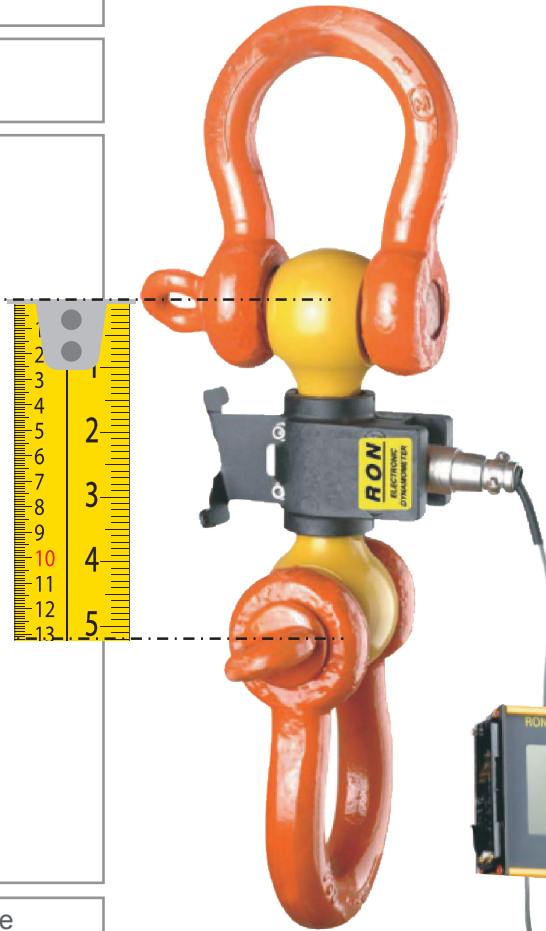
Unique design: 90° between shackle
 holes eliminates external moments and
 consequently increases accuracy, safety
 and longevity.



Advanced options such as: Integrated
 data logger, analog output, averaging /
 dampening and more.

**New: Fatigue rated load cells - an
 important and unique safety feature:**
 All Ron crane scales and dynamometers
 are now Fatigue Rated. They have an
 improved fatigue resistance level.

Wide temperature range:
 Load cell: -15°F to +175°F (-25°C to + 80°C)
 Indicator: -4°F to +158°F (-20°C to +70°C).



Shackles not included

**More than three decades in the
 market:** Eilon Engineering Ltd. has
 specialized in the development
 and manufacturing of Ron crane
 scales and dynamometers since
 1976. We have thousands of
 repeat customers such as NASA,
 Boeing, US Air Force and many
 more.

Attachable display enables
 the user to either
 hold the display
 in his hand, or to
 easily attach it to
 the load cell. The
 remote display
 enables the user
 to conveniently
 read the measured
 values from a safe
 distance.



Optional wireless communication
 to additional display or PC that
 allows for multiple Ron crane scales/
 dynamometers in one area to send
 measurements to a centralized location.

Exceptionally long battery life: Up to
 2000 hours on AA disposable batteries
 with battery life indication.

**Optional offshore and underwater
 load cell sealing levels:** High sealing
 levels IP 67 and IP 68 for offshore and
 underwater applications.

Double overload warning is displayed
 on the screen at 100% of full scale and
 at 130%.



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

Description

Ron 2150 Dynamometer is a unique combination of the smallest and lightest load cell with a very large display, 2"/50mm display.

The small and light load cell ensures portability and low headroom loss. The large display enables readability from a considerable distance.

Ron 2150 also offers two systems in one: The attachable display enables the user either to hold the large display in his hand or snap it very easily onto the load cell. By this means, the user's personal safety is ensured as under no circumstances will they have to approach the load in order to read the result: They can either hold the remote display in their hand or read the attached display from a safe distance.

The separation of load cell and display also increases the system's durability.

The electronic board's dampening mounts increase the system's durability as it absorbs external impacts.

The load cell's unique perpendicular hole structure neutralizes external moments and thus improves safety, utility and accuracy.

Ron Crane Scale and Dynamometer series are used for weighing during lifting, overload prevention, force, load and tension measurement as well as cable and wire tension monitoring and control.

Transmitting the measured values to a remote location is possible thanks to the optional additional wireless display.

Another advantage of Ron 2150 is its extremely long battery life: Up to 2000 hours on common disposable batteries.

Dynamometers are often used by electricity and communication companies for cable and wire tension monitoring and control. Ron systems' low weight ensures their portability and makes them especially suitable for these applications.

A marine version of the Ron 2150 Shackle Type is also available for offshore applications.

Ron Crane Scales and Dynamometers have been one of the global market leaders for more than 30 years with repeat customers like NASA, Boeing, GE, Siemens and many others.



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

Specifications

Safety Factor: Designed to 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, charge and 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: Available in the following measurement readings: 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



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

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 4"/100mm 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, High quality
- 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
- Units, user-selectable
- Wireless communication to additional display or PC
- USB

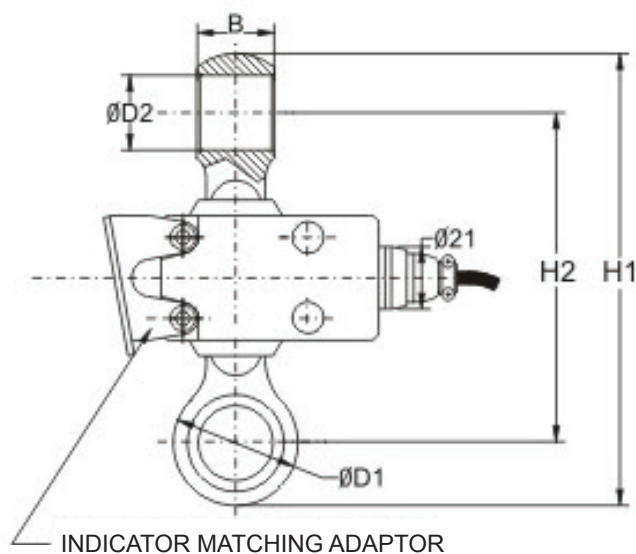


Ron 2150 Shackle Type Dynamometer with 2"/50mm Attachable Display

Dimensions Table and Drawing



Optional carrying case



Cat no.	Full range		Resolution		Load cell weight		Cable length		H1 (max.)		H2 (max.)		B (max.)		ØD1 (max.)		ØD2 (min.)		Matching anchor shackle size*
	tons	kgs	lbs	kgs	lbs	mm	ft	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	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	43	1.7	74	3	43	1.7	1 3/8	
S-20	20	10	20	2.5	5.5	5	16	220	8.7	141	5.6	43	1.7	74	3	43	1.7	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, 1 3/4	
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	20	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 THE SYSTEM'S FULL RANGE.

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