

# 50 Years

DESIGNING AND  
MANUFACTURING  
ADVANCED LOAD  
MONITORING  
SYSTEMS



## About Eilon Engineering

For the last 5 decades, Eilon Engineering has specialized in the design and manufacture of cutting-edge load monitoring systems tailored for precise weight measurement of lifted objects. Our comprehensive product range includes crane scales, dynamometers, and load cells.

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Founded in 1976 by Eitan Eilon, an accomplished engineer and former combat pilot, the company originated from his personal need for a dynamometer to test and proof-load lifting equipment. Eitan designed a system based on his user preferences for safety and performance. As demand quickly grew, the company's systems became market leaders and are now used worldwide.

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We are honored to have served esteemed clients such as NASA, Boeing, Siemens, GE, Vestas, Lockheed Martin, and numerous other industry leaders, cementing our reputation as a trusted partner in the field of load monitoring solutions.

We maintain an unwavering dedication to safety, accuracy, and customer satisfaction, ensuring that our systems not only meet but exceed industry standards, providing you with the highest level of reliability and performance, empowering your operations with innovative technology and support.

Effective monitoring of heavy loads is paramount for preventing overloads and ensuring workplace safety. Moreover, our systems offer valuable data insights for various purposes, enabling our customers to enhance efficiency and reduce costs.

## Main Markets and References

### Energy

The Siemens logo, consisting of the word "SIEMENS" in a bold, blue, sans-serif font.The Vestas logo, featuring the word "Vestas" in a blue, italicized, sans-serif font.The Suzlon logo, consisting of the word "SUZLON" in a bold, blue, sans-serif font.

### Aerospace



### Oil & Gas

The Halliburton logo, consisting of the word "HALLIBURTON" in a bold, red, sans-serif font.The Schlumberger logo, consisting of the word "Schlumberger" in a blue, sans-serif font.

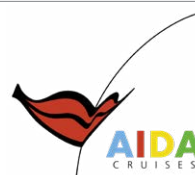
### Automotive



### Entertainment

The TAIT logo, consisting of the word "TAIT" in a bold, black, sans-serif font.

### Ship management & cruises



Our wide variety of products includes:



Ron 2501 Shackle Type Wireless



Ron 2000 Shackle Type



Ron 2125 Shackle Type



Ron 2150 Shackle Type



Ron 3025



Ron 3050



Ron 2501 Hook Type Wireless



Ron 2000 Hook Type



Ron 2125 Hook Type



Ron 2150 Hook Type



Ron CraneMaster Multipoint System

## Safety

- **0.1% Accuracy:** Early detection of overloads.
- **5-Year Warranty:** Market-leading high quality and reliability.
- **Fatigue Rated:** Complies with ASME BTH-1 and IEC 61508, allowing for an unlimited number of load cycles.
- **Reliable Transmission:** Built on decades of experience with harsh transmission environments, including NASA launch sites.
- **Aerospace Steel:** High-grade steel for load cell bodies.
- **Shackle Holes Offset 90 Degrees:** Reduces bending for increased safety and accuracy.
- **Proven Wireless Technology since 1976**

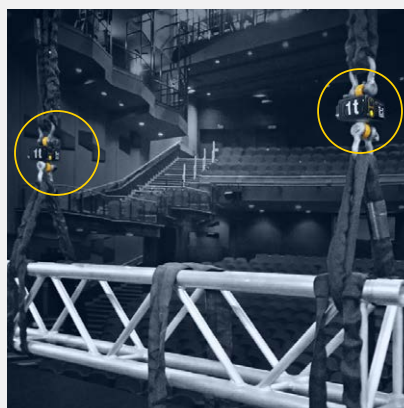
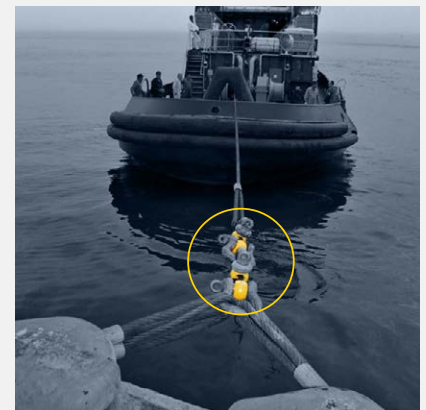
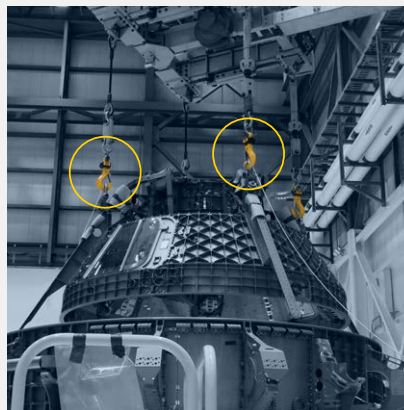
## Unmatched Performance

- **Easy and Intuitive Operation:** Works out of the box, no lengthy pre-configuration required.
- **Long Battery Life:** Up to 5000 hours on common disposable batteries for multipoint systems. 2000h standard for single-point systems and 4000h optional for wireless single-point models.
- **Transmission Range:** Up to 1 km / 1000 yards (upon request), standard is 150 m/yds.
- **Wireless and Wired:** Wired and wireless load cells with a single receiver.
- **Large Capacities:** From 500 kg to 300 tons.
- **5:1 and 10:1 Safety Factor.**
- **Weatherproof:** Environmental protection with IP 67 / IP 65 / NEMA 4.
- **Bluetooth Compatibility:** Works with iPhones and iPads without requiring WiFi.
- **Heavy-Duty Design:** Includes shock-absorbing mechanisms.
- **Minimal Headroom Loss:** Short length minimizes headroom loss.
- **Practically Unlimited Load Cells:** Monitor up to 200 load cells per laptop station with an unlimited number of monitoring stations.
- **Works with Any Controller:** Provides automatic E-stop and overload/under-load alarms.
- **Slave-Master Option:** Enhanced range and the ability to monitor multiple halls from one control room.
- **Tablet and Smartphone Compatibility:** Allows for portable browsing.
- **Real-Time Load Map:** Displays all load cells on one laptop screen as a real-time load map, overlaid on the stage-plan layout for swift identification of overloads and immediate action.
- **Multiple Groups:** Support for up to 15 groups, each with its own overload settings and display.
- **Continuous Data Logging:** Downloadable data logs of months of continuous measurements.
- **Group Screen View:** For viewing individual group rigging plans with specific backgrounds.
- **Real-Time Cellular SMS Alerts:** Receive alerts on overload occurrences in real-time.

Serving diverse industries:

**Eilon Engineering systems are trusted across various sectors, including:**

- Heavy Industries
- Aerospace
- Wind Turbines
- Foundries
- Ports
- Shipyards
- Oil & Offshore
- Electricity Companies
- Militaries
- Many other heavy industry segments.



Versatile Solutions:

**Our load monitoring systems offer versatile solutions, categorized into:**

### **Single Point Load Monitoring:**

- Ideal for monitoring loads under a single crane hook.
- Ensures overload detection and accurate tracking of the loads lifted.

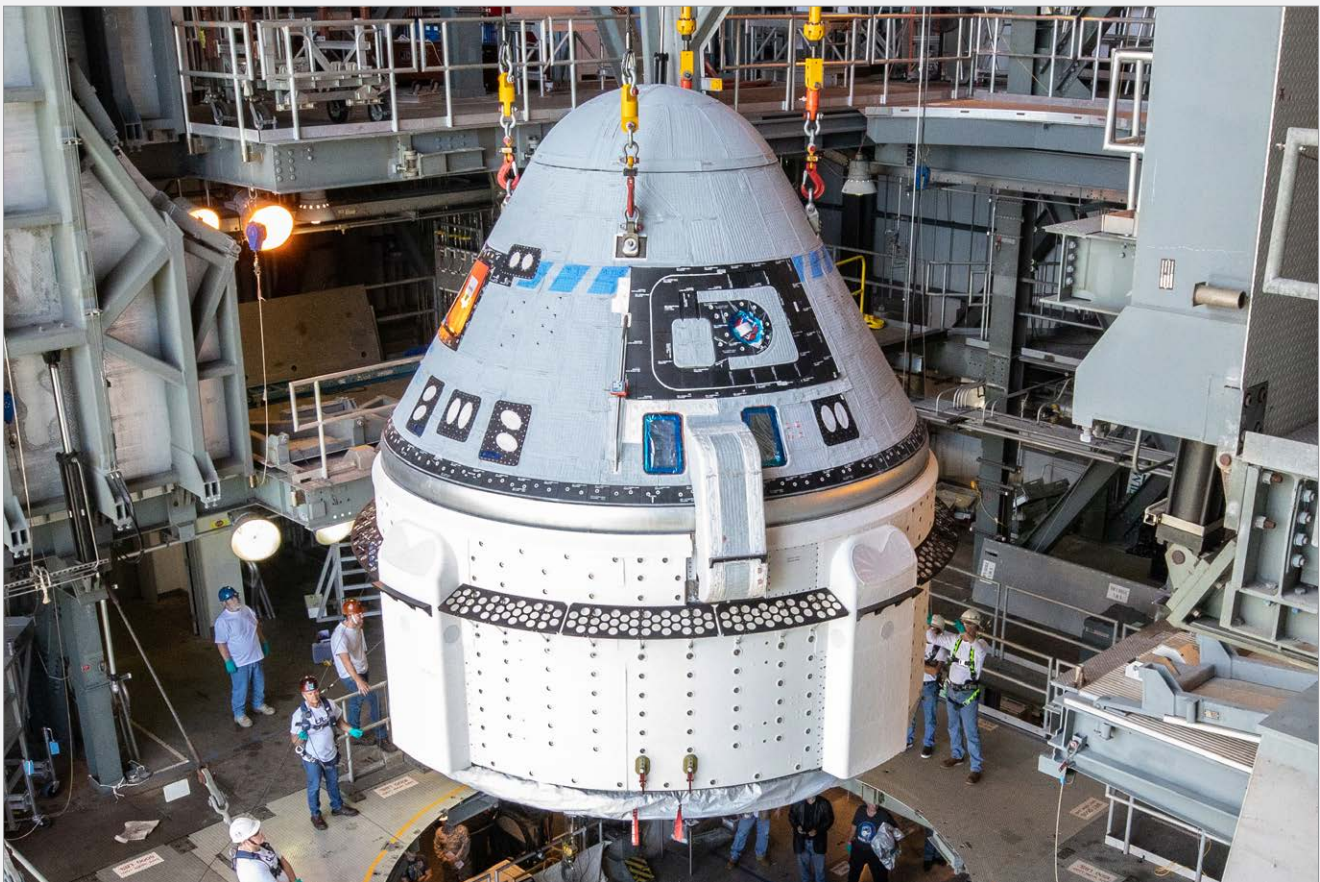


We even weigh polar bears... :-)



## Multi-Point Load Monitoring:

- Advanced software generates real-time load maps for up to 200 lifting/hanging points.
- Ensuring safety during complex, heavy lifting operations.
- Centralizing readings from several stations for intelligent information management.



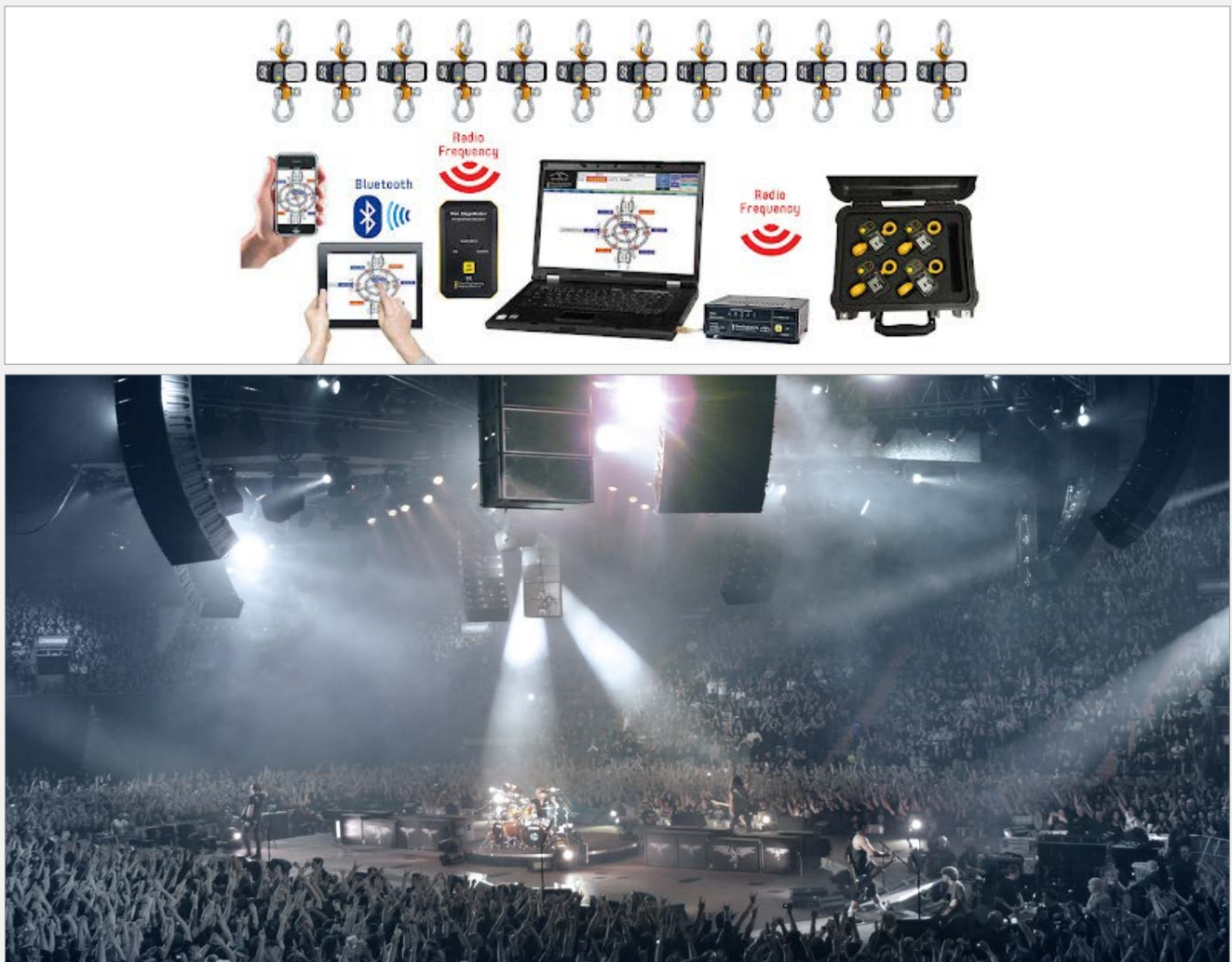
Multipoint load monitoring projects:

## **Ron StageMaster: Safety and Peace of Mind:** Enhancing Safety in the Entertainment Industry

Safety for performers and audiences remains paramount in the entertainment industry. At Eilon Engineering, we prioritize this need with our cutting-edge solution: the Ron StageMaster system.

Our innovative Ron StageMaster system is designed to meet the demands of the entertainment industry, ensuring real-time monitoring and guaranteeing peace of mind:

Seamless real-time monitoring of multiple load cells, accessible via laptops or mobile devices, proactively preventing accidents resulting from hazardous overloads, our system effectively mitigates potential risks not only for performers and audiences but also for expensive equipment and the venue infrastructure, ensuring a secure and uninterrupted entertainment experience.



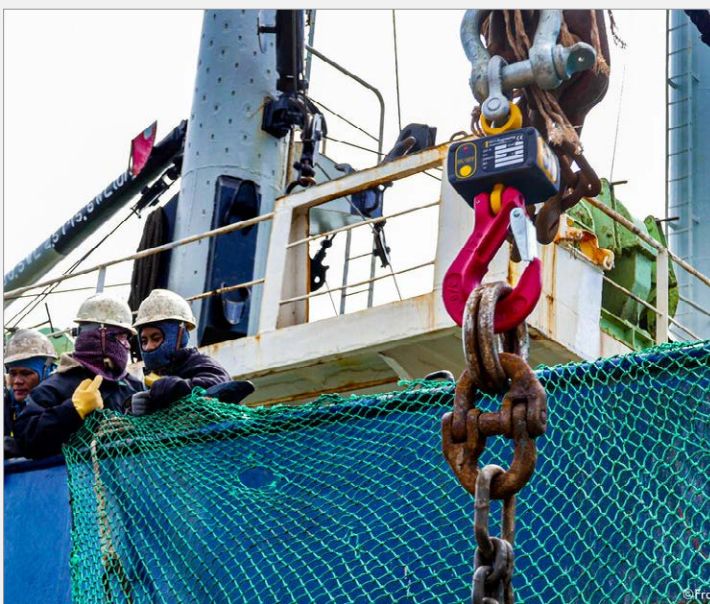
## Fishing and Agriculture:

**Fishery.** Our integrated system monitors catch weights from the moment of capture to unloading and throughout the entire supply chain, ensuring comprehensive traceability and quality control:

- Efficiently monitoring weights during transshipment.
- Overseeing national port state measures.
- Combating illegal, unreported, and unregulated (IUU) fishing.
- Accurately assess the quantity and composition of the catch and conduct a comparative analysis with reported data.
- Recording the presence of species of interest.
- Providing data and information to compliance bodies.

**Crops.** Monitored crop harvest and logistics:

- Our monitored crop harvest & logistics system employs the practice of weighing crops during the lifting process, providing an efficient method to monitor various parameters.
- This approach enhances overall efficiency, facilitates the detection of incentives and deficiencies, prevents truck overload, and significantly reduces wastage.



Fishery

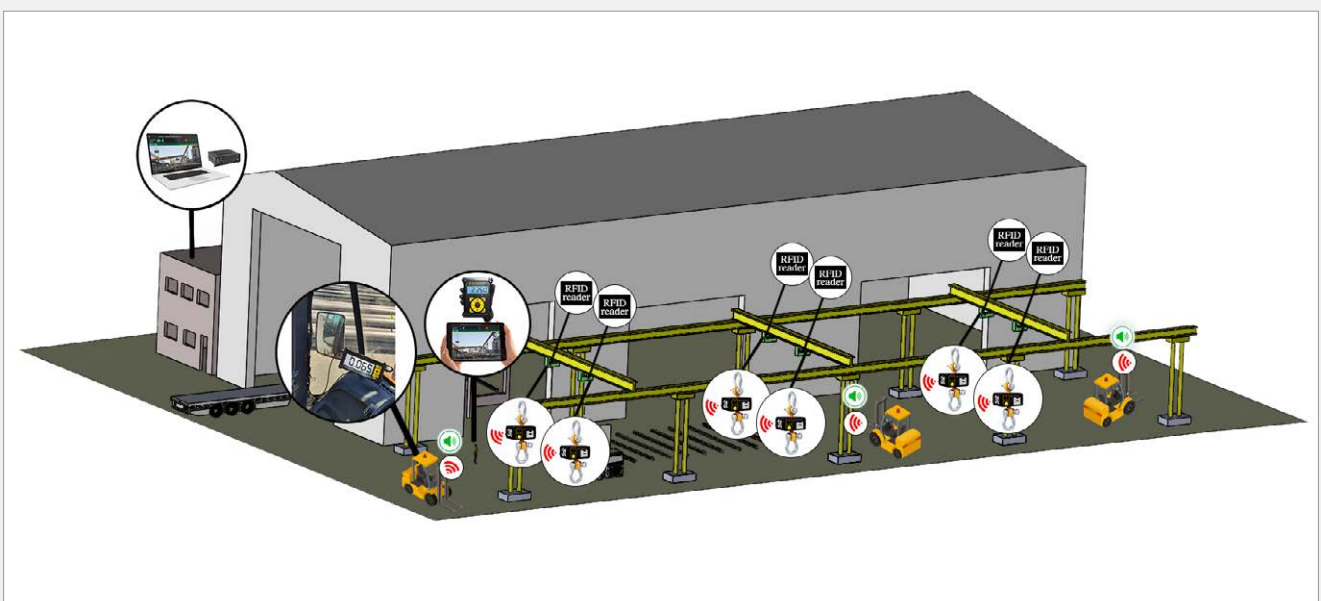


Crops

## Steel manufacturing and inventory:

## Utilizing lifting stages for weighing and monitoring, increases efficiency and reduces inventory:

- Greater detail for inventory control, enabling smaller inventories (approx. 20% smaller).
- Low system cost with significant savings, providing a great return on investment.
- Integration with existing infrastructure without downtime.
- Complete control of inventory and manufacturing process tracking.
- Inventory counts without downtime.
- Elimination of unplanned supply runs and precise customer deliveries.
- Detailed tracking of raw material supplies for cost-effective purchasing
- Space previously used for inventory can be repurposed for profit-generating activities.
- Materials tracked and located with ease.
- Elimination of inventory deficits.





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