

# DILLON

Overload Protection and  
Overhead Weighing Equipment

## *ED Series Crane Scales*

EDxtreme & EDjunior Crane Scales



# Dillon ED Series Crane Scales

## Advanced Weighing

- > **Guesswork is not acceptable – failure is not an option.** When you have people working around massive loads, there is no room for error. You have to have complete confidence in the strength and the accuracy of your measurement tools.

Since 1937, Dillon Dynamometers have been chosen for the jobs where only the best will do. Now, Dillon has once again lifted the performance bar and set the standard for others to follow — Dillon ED Series Crane Scales.

**Two ED Series models are available:** The **high-end EDxtreme** (also called EDx), and the **affordable EDjunior**. Choose EDxtreme for the most demanding applications; EDxtreme is built with the best materials and designed with cutting-edge features like radio control. Where cost is a concern, and reliability is a requirement, choose EDjunior – the perfect crane scale for simple jobs.

## EDxtreme – The ultimate in reliability & accuracy

Popular industry-standard shackles insure proper fit

Sturdy aircraft-quality aluminum (shown) or plated alloy steel case

Battery compartment – easy access without tools

High-resolution dot-matrix LCD display offers large numbers without confusing abbreviations or multipliers

Injection molded, thick Lexan panels offer superior impact protection

Softkey interface allows easy and intuitive operation and configuration

NEMA 4X / IP55 designed for weather and water resistance



All EDxtreme Crane Scales include storage crate, instructions, and certificate of calibration.



### Hook Choices

Reliable, high quality Crosby hooks are used on all EDx Crane Scales.

- **Non-Swivel Hook (left)** – basic hook for low-cost, low-headroom weighing.
- **Basic Swivel Hook (center)** – Used to align rigging to the crane.
- **Bearing Swivel Hook (right)** – Used for precise positioning under load.

Capacities available from 2500 to 50,000 lbf (1000 to 20000 kgf).

# EDxtreme – Signature features

## Xtreme accuracy: 0.1%

Accurate repeatable readings are essential to proper weighing. The higher standards set for the EDx Crane Scales meant taking the time to ensure that material characteristics, load element design and strain gage meshed perfectly. The result of that effort is a typical accuracy of 0.1% of full scale capacity. The enhanced resolution mode of 1 part in 5000 provides the level of readability needed for refined weighing.

## Xtreme ease

- **Exclusive SOFTKEY interface** – Eliminates confusing menus for faster setup and simple operation.
- **Local gravity correction** – Unit adjusts to local gravitational conditions, without recalibration.
- **Custom units of measure** – User-defined units of measure mean the instrument adapts to changing requirements.
- **Wide-angle LCD** – Provides improved readability over a wider viewing angle and is available with backlighting for low light conditions.
- **Battery operation** – Powered by two standard C-cell batteries. Batteries are easily accessible for fast replacement.

## Xtreme engineering

Building a precision instrument that can survive real-world punishment requires masterful engineering. This is where Dillon's experience shines through. The engineers assigned to the EDx Crane Scale drew on a depth of industrial application knowledge and conducted exhaustive materials testing to achieve the highest structural integrity.

- **Superior strength and corrosion resistance** – High capacity models are constructed of electroless nickel-plated aircraft-quality alloy steel. Lower capacity models are anodized aircraft-quality aluminum.
- **5:1 factor of safety** – This measure of strength and safety is maintained at all capacities. Computer modeling confirms the low stress and long product life that is inherent in the EDx Crane Scale design.
- **NEMA 4X/IP55** – The EDx Crane Scale is clearly the choice for reliability in any environment – in-plant or out on the job site.

## Expandable Scale Network

A basic stand-alone model can be easily expanded to accommodate changing needs. Data acquisition and single point monitoring of multiple scales are all easy with the hardwired or radio communication option.

Optional Remote Communicator, showing four crane scale readings and total of all.



## Typical Configurations

- 1 Stand-alone EDx for simple, direct measurement applications.
- 2 Single network with one EDx radio Crane Scale and Communicator.
- 3 Single network with multiple EDx Crane Scales and one Communicator. The Communicator monitors the load at each scale, plus the total weight.
- 4 Multiple networks with multiple EDx Crane Scales and Communicators.



An RS-232 interface is standard on both the EDxtreme and Communicator for connection to a host PC.

KEY:   plant airspace  discrete radio channel

# ED Junior – The market leader in accuracy & value

**The ED Junior is all about value.** Behind its simple design and easy operation, you will find the quality and performance that the competition lacks. With the ED Junior, Dillon proves that economy can go hand-in-hand with accuracy, long service life and, most importantly, worker safety – just compare the Dillon ED Junior to the competition. Nothing else comes close!

## Measurement Capabilities

The ED Junior provides peak detection as well as live load readings. Selectable units of measure include lbf, kgf and Newtons.

**Accuracy** — The load element design and strain gauges chosen for the ED Junior produce an accuracy of 0.2 % (full scale). This level of precision offers flexibility for use in a broad range of applications. Capacities up to 10,000 lb (5000 kg) available.

**Resolution** — Readings are displayed with a resolution of 1 part in 1000 to ensure the level of readability required for critical lifting applications.

## Control Interface

The exclusive Dillon SOFTKEY interface provides direct access to setup and display functions without the typical confusing menu structure. The 6-digit dot-matrix display features 1 inch (25 mm) high numerals for greater visibility.

## High Strength, Low Weight

Heavy, cumbersome tools make tough jobs even harder. Through the use of aircraft quality aluminum, Dillon has made the ED Junior an easy-to-position, highly mobile instrument with exceptional strength. It offers an impressive 7:1 factor of safety at all capacities.

## All Environments

With its NEMA4/IP55 design, the ED Junior is at home in virtually any environment and ideally-suited to outdoor job-site applications as well as in-plant use.



## Hook Choices

- **Basic Swivel Hook (left)** – Used to align rigging to the crane
- **Non-Swivel Hook (right)** – basic hook for low-cost, low-headroom weighing.

**Specifications and dimensional details** are available from an authorized Dillon Distributor or the website at [www.dillon-force.com](http://www.dillon-force.com).



## Dillon on the job

Dillon force measurement equipment is the preferred choice of public utilities, nuclear facilities, tower erectors, armed services and material handlers throughout the world. Dillon also manufactures mechanical crane scales, high accuracy mechanical and electronic dynamometers and overload protection devices.

## AUTHORIZED DISTRIBUTORS

**Ask the experts.** Dillon distributors offer complete service capabilities from application assistance to sales and product support. Their experienced representatives are the most knowledgeable experts that you will find in the force measurement industry. We recommend that you consult these capable specialists for all of your measuring needs.

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