

# EDjunior Dynamometer

Lifting the bar in electronic dynamometers

## Big on the basics

The EDjunior dynamometer gets straight to the point – apply a load; take a reading. Its Spartan design is a direct response to industries that have wanted an extremely well-built instrument that could be relied upon for simple, yet critical measurements of weight and force.

## A Strong Family Resemblance

The EDjunior draws its strength from the exhaustive engineering that went into the design of the Dillon EDXtreme dynamometer. Both share the same base of research and testing to match material characteristics and load cell technology. The choices made in development have yielded an exceptionally rugged instrument capable of consistently delivering accurate, repeatable measurements.

## Extreme Value

The EDjunior is even more remarkable, when you consider price. If you believe you have to pay more, to get more – just compare the Dillon EDjunior to the competition. Nothing else comes close!

*5,000 lb capacity EDjunior shown.  
EDjunior dynamometers are available in  
capacities up to 25,000 lbf (10,000 kgf).*

**DILLON**  
Force Measurement Equipment



CE

# Proof of Performance

The EDjunior is all about value. Behind its simple design and easy operation, you will find the quality and performance not found elsewhere in the low price range. With the EDjunior, Dillon proves that economy can go hand-in-hand with accuracy, long service life and, most importantly, worker safety.



**Consider the features;  
compare the numbers:**

## Measurement Capabilities

The EDjunior provides peak detection as well as sustained load readings. Selectable units of measure include lbf, kgf and Newtons.

**Accuracy** — The load element design and strain gauges chosen for the EDjunior produce an accuracy of 0.2 % (full scale). This level of precision offers flexibility for use in a broad range of applications.

**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 (26 mm) high numerals for greater visibility.

## High Strength, Low Weight

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

Dillon's distinctive curve-body design further eliminates unnecessary weight and streamlines the unit to help prevent binding.



## Battery Operation

Power is supplied by two C-cell batteries that are easily accessible through a side-loading port. Battery replacement, however, is a rare event. With the EDjunior's low power consumption, typical battery life is over 425 hours.

## All Environments

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

## Backlight

When in a low light area, turn on the configurable backlight to make readings highly visible.

## Standard Accessories

Cases for secure transportation and storage of instruments and shackles.



Right: Low capacity model – 2,500 lbf / 1000 kgf



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

Dillon also manufactures highly accurate mechanical dynamometers and crane scales, as well as the EDxtreme, a full featured, precision electronic dynamometer with radio communications capability (right).



## 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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# EDjunior Dynamometer Specifications

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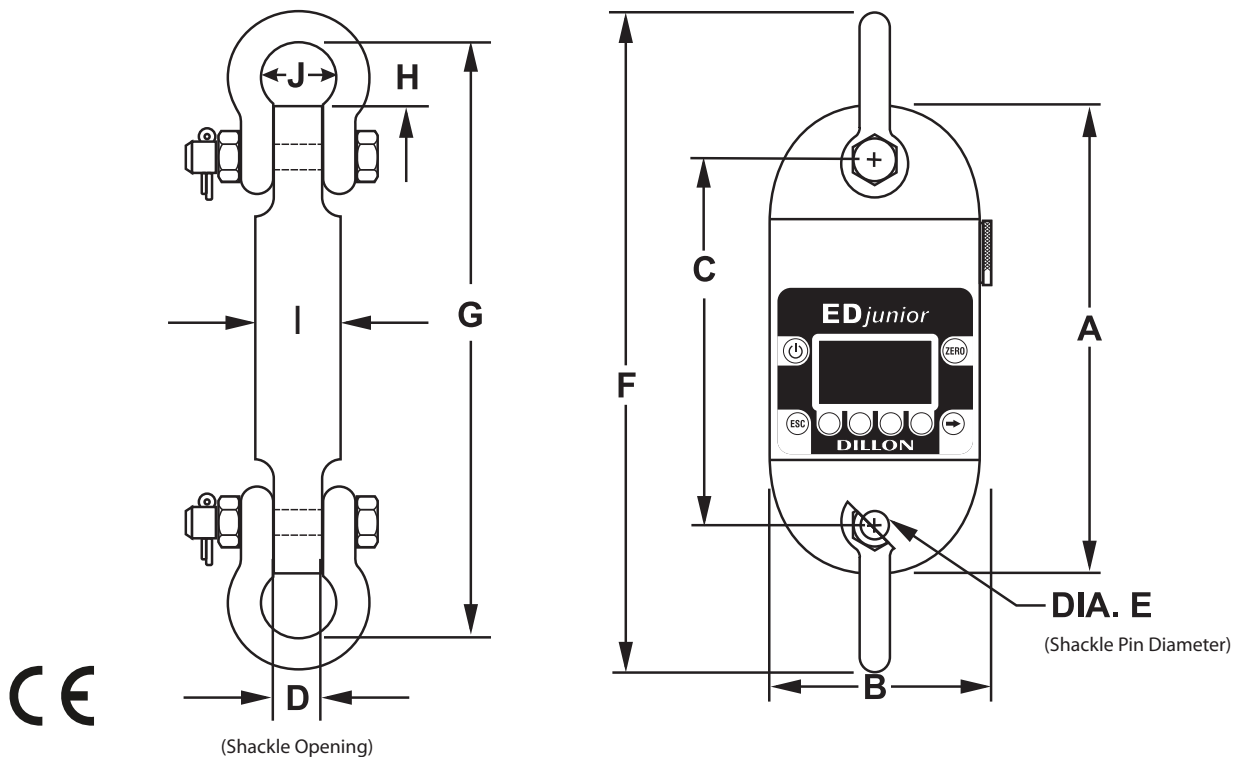
Capacity x Resolution				Body Construction and Overload Design
EDjr-1T (EDjr-2.5K)	2,500 lbf x 2	1,000 kgf x 1	10,000 N x 10	Aircraft quality 2024 Aluminum 700% Ultimate overload protection
EDjr-2T (EDjr-5K)	5,000 lbf x 5	2,000 kgf x 2	20,000 N x 20	
EDjr-5T (EDjr-10K)	10,000 lbf x 10	5,000 kgf x 5	50,000 N x 50	
EDjr-10T (EDjr-25K)	25,000 lbf x 20	10,000 kgf x 10	100,000 N x 100	E4340 Alloy Steel 500% Ultimate overload protection

Note: Model in parenthesis shows U.S. convention for describing capacities.

Dimensions											
Model		A	B	C	D	E	F	G	H	I	J
EDjr-1T	inch	8.4	5.0	6.9	0.75	0.50	11.6	10.8	1.20	2.03	1.16
	mm	213	127	174	19	13	296	274	30	52	29
EDjr-2T	inch	10.6	5.0	7.8	1.06	0.75	14.8	13.4	1.41	2.94	1.69
	mm	269	127	198	27	19	375	340	35	75	43
EDjr-5T	inch	11.4	5.3	8.1	1.38	1.00	17.8	15.8	2.22	4.03	2.28
	mm	289	135	206	35	25	451	402	56	102	58
EDjr-10T	inch	11.5	5.3	7.9	1.97	1.38	21.6	18.8	3.67	4.53	3.25
	mm	291	133	201	50	35	548	478	93	115	83

Dimensions using Green Pin shackles (Crosby shackles available).

Dimensions shown are nominal and subject to tolerances.



# EDjunior Electronic Dynamometer

## Specifications

**Enclosure:** Designed to NEMA4X/IP55.  
Suitable for continuous outdoor use.

**Accuracy:** 0.2% of capacity

**Repeatability:** 0.2% of capacity

**Proof Load:** 150% of capacity

**Ultimate Overload:** See table on reverse

**Safe Overload:** 200%

**Display:** 128 x 64 dot-graphic LCD display shows all digits  
1.0" (26 mm) high plus annunciators and softkeys

**Display Update Rate:** 2 times per second

**Peak Hold Sampling Rate:** 10 times per second typical

**RS-232 Communication:** Not available.  
See Dillon EDXtreme.

**Calibration:** Traceable to the National Institute of  
Standards and Technology. Calibration card included.

**Battery Life:** 425 hours typical use with two  
C-cell alkaline batteries

**Backlight:** Configurable. Using backlight will consume  
more battery power, reducing battery life.

**Operating Temperature:**  
-4° F to 158° F (-20° to 70° C)

**Included with Instrument:**  
Carry case, batteries, manual and calibration card

**Warranty:** 2 years parts and labor

**Overload:** Recorded at 120% with date and time stamp

## Weights

Model	Unit Weight lb (kg)	Ship Weight lb (kg)	Ship Dimension in (mm)
EDjr-1T (2500 lb)	3.9 (1.8)	13 (6)	19 x 16 x 7 (483 x 406 x 178)
EDjr-2T (5000 lb)	7.8 (3.9)	18 (8)	19 x 16 x 7 (483 x 406 x 178)
EDjr-5T (10,000 lb)	14.3 (6.5)	23 (10)	19 x 16 x 7 (483 x 406 x 178)
EDjr-10T (25,000 lb)	41 (19)	54 (24)	22 x 21 x 11 (559 x 533 x 279)

Improved performance, convenience and features are available from the EDjunior's big brother, the EDXtreme.  
See EDXtreme Electronic Dynamometer brochure and specifications for details.

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