

DILLON

Reliable Equipment for
Overload Protection &
Overhead Weighing



DILLON

Force Measurement Equipment



Protecting your people. Improving your efficiency.

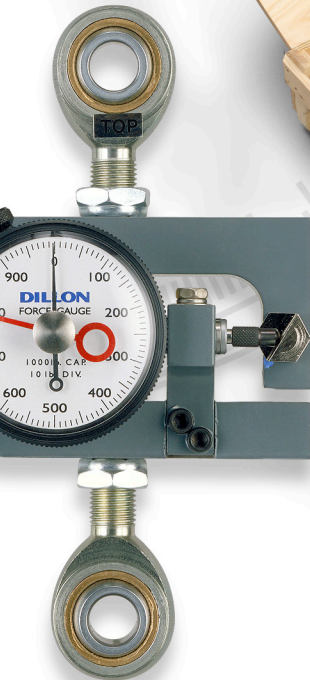
When dealing with massive loads, reliability is essential. Faulty equipment can result in costly delays and errors, or even injuries. Dillon's top of the line equipment offers reliability and durability to protect your people, and enhance your efficiency. All equipment comes pre-calibrated and ready to work, right out of the box.

Since 1937, our force measurement equipment has proven itself in construction, manufacturing, mining, oil drilling, cable installation and in countless other industries. Our customers rely on Dillon's overload protection and overhead weighing equipment to ensure the safety of their people and their products. NIST traceable certificate is included with every Dillon product.

INTRODUCTION

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DYNAMOMETERS

The dynamometer is a portable, self-contained scale that measures the load applied between two shackles. The versatile dynamometer is often used to measure weight of suspended loads or tension in wires and cables. Common for use with any type of crane, utilities, tower erection and general load testing. Dillon is the world leader in dynamometers with the most comprehensive product & capacity offering, quick deliveries and quality pre-calibrated equipment that is ready to work right out of the box.

MODELS & CAPACITIES

ED^Xtreme Dynamometer

LBF	KGF
2500 x 0.5	1000 x 0.2
5000 x 1	2000 x 0.5
10,000 x 2	5000 x 1
25,000 x 5	10,000 x 2
55,000 x 10	25,000 x 5
100,000 x 20	50,000 x 10
160,000 x 50	75,000 x 20
220,000 x 50	100,000 x 20
330,000 x 100	150,000 x 50
550,000 x 200	250,000 x 50

ED^Junior Dynamometer

LBF	KGF
2500 x 2	1000 x 1
5000 x 5	2000 x 2
10,000 x 10	5000 x 5
25,000 x 20	10,000 x 10



AP Dynamometer

5" (125mm) Dial Size

LB	KG
500 x 5	—
1000 x 10	500 x 5
2000 x 20	1000 x 10
4000 x 25	2000 x 20
5000 x 50	—
8000 x 50	4000 x 25
10,000 x 100	—
15,000 x 100	—
20,000 x 200	10,000 x 100

10" (250 mm) Dial Size

LB	KG
1000 x 5	500 x 2
2000 x 10	1000 x 5
—	2000 x 10
5000 x 20	—
10,000 x 50	5000 x 20
20,000 x 100	10,000 x 50
30,000 x 200	—
50,000 x 200	20,000 x 100

DYNAMOMETERS

EDXtreme Dynamometer

The EDXtreme offers trademark Dillon resolution, application versatility and options. This flexible dynamometer can serve as a simple hanging scale or be part of a sophisticated weighing system.

- **Full capacity range:** 2500 to 550,000 lbf (1000 to 250,000 kgf)
- **Reliable accuracy:**
0.1% capacity up to EDX-50T
0.3% of capacity for EDX-75T and above
- **Configurable high speed peak**
- **Rugged:** High grade materials and outdoor use design
- **Industry leading radio option:** Safely monitor the load on a handheld remote. No site license required
- **On board data storage:** Manage and export real-time or stored data through either a RS-232 or USB interface.



EDXtreme Communicator II

Wirelessly monitor all of your EDXtreme dynamometers in real-time, and send captured data to a PC, printer or remote display. Multiple Communicators can operate independently in the same workspace. Optional audible alarm.

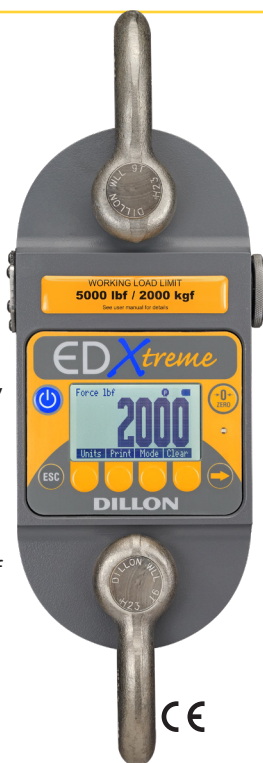
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Force Measurement Equipment

EDXtreme Dynamometer

The EDXtreme Blue is the latest Dillon dynamometer offering, allowing for wireless use through a Bluetooth connection with an Android or iOS device. Utilization of the Dillon EDX free mobile app allows for remote monitoring, data logging and exporting, and remote configuration of the EDXtreme Blue dynamometer.

- **Capacity:** 2500 lbf to 25,000 lbf / 1000 kgf to 10,000 kgf
- **7:1 factor of safety*:** This measure of strength and safety is maintained by most capacities. Computer modeling confirms the low stress and long product life that is inherent in the EDXtreme design.
* Models 5T and below feature a 7:1 safety factory. Model 10T features a 5:1 safety factory.
- **Superior strength and corrosion resistance:** High capacity models are constructed of powder coated aircraft-quality alloy steel. Lower capacity models are powder coated aircraft-quality aluminum.



- **Retained hardware:** Allows permanent attachment of centering spacers, which eliminates fumbling during high capacity rigging
- **NEMA 4X/IP68:** The EDXtreme is clearly the choice for reliability in any environment – in-plant or out on the job site

DYNAMOMETERS

EDjunior **Dynamometer**

When the job calls for a reliable instrument to take basic, consistent measurements of weight and force, the affordable EDjunior delivers.

- **Value:** Electronic functionality for nearly the same price as a mechanical unit
- **Accuracy:** 0.2% of capacity
- **Easy to read:** 1" high digits



AP Dynamometer

The model AP is proven for guy wire & cable tensioning, bridge cable installation and field testing chain, rope and wire. This rugged instrument provides precision force and tension measurements to a wide range of industries.

- **Outstanding value:** Beats the competition in features
- **Proven reliability:** Over 75,000 in use worldwide
- **Quick delivery:** Most ship within one day
- **ASME b30.26 Compliant:** (20,000 lb and below)



TENSION METERS

A tension meter measures tension within a line or cable that passes through it. Typical applications include tower guy wire and pretensioned cable barriers, elevators, lifts, gondolas, winch rope, fall arrest systems, prestressed concrete, aircraft cables and utilities.

MODELS & CAPACITIES

Quick Check-T

LB	KG	N
10,000 x 10	4500 x 5	45,000 x 50

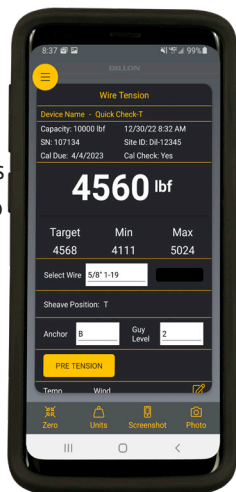
Quick-Check Red

LB	KG	N
2000 x 2	1000 x 1	10,000 x 10
10,000 x 10	4500 x 5	45,000 x 50

Quick Check-T

Quick Check-T tension meter makes a difference. It reduces time on the job site by eliminating the need for whiteboards, changing sheaves, and the need for charts to figure out target tensions. This unit also reduces time off of the job site by having automatic site form completion, with image, and direct complete reports.

- Bluetooth® enabled
- Custom mobile app
- Multi-wire single sheave
- Calibration check rod
- Automatic closeout report generation with photos (View Sample)
- Automatic target tension calculations
- Ability to capture pre and post tension readings
- Inbuilt image capture



TENSION METERS

Quick-Check *Red*

Quick-Check is fast, accurate and easy to use. It shows wire tension measurement directly on its display, requiring no cumbersome lookup tables. The Quick-Check can accommodate wire rope diameters up to 1". Additional calibrations available – up to 20 total per instrument.

- **Fast Operation:** Clamps to cable for measurement in under three seconds
- **Rugged:** Designed for outdoor environments and rough handling.
- **Graphical Tensioning Modes:** Makes precise tensioning highly intuitive.
- **Highly Accurate:** For improved tension accuracy over other measurement methods.
- **Internal Storage:** For wire rope readings.



Carrying case included.



FACT: Dillon will calibrate to specific wire sizes for the best accuracy possible.

MECHANICAL FORCE GAUGES

Mechanical Force Gauges are ideal for those applications where working space is limited. These popular industrial gauges available in tension, compression, and push/pull versions are certain to fit your needs. Often used in aircraft, manufacturing presses and as ultra-portable scales.

MODELS & CAPACITIES

“X” Force Gauge

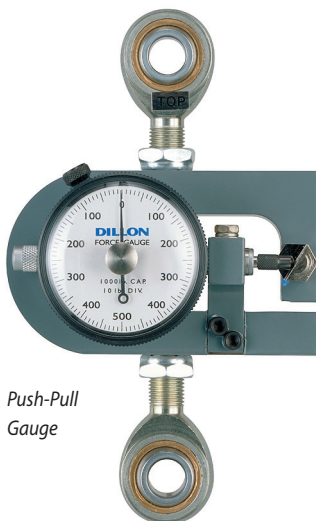
LB	KG
<i>Compression</i>	
50 x 0.5	-
100 x 1	50 x 0.5
250 x 2.5	100 x 1
500 x 5	200 x 2
1000 x 10	500 x 5
2000 x 20	1000 x 10
5000 x 50	2000 x 20
10,000 x 100	5000 x 50

<i>Tension</i>	
-	25 x 0.25
100 x 1	50 x 0.5
250 x 2.5	100 x 1
500 x 5	200 x 2
1000 x 10	500 x 5
2000 x 20	1000 x 10
5000 x 50	-
10,000 x 100	5000 x 50

<i>Push/Pull</i>	
50-0-50 x 1	-
125-0-125 x 2.5	50-0-50 x 1
500-0-500 x 10	250-0-250 x 5
2500-0-2500 x 50	1000-0-1000 x 20

MECHANICAL FORCE GAUGES

- **Easy to use:** Mount horizontally, vertically or flat.
- **Proven reliability:** Tens of thousands in use all over the world
- **Many capacities:** 25 to 10,000 lb (10 to 5000 kg)
- **Compact:** Highly portable and adaptable
- **Safe:** Meets stringent standards for overhead lifting applications



*Push-Pull
Gauge*



*Tension
Gauge*



Compression Gauge

FORCE CONTROL SWITCHES

Force Control Switches are an inexpensive solution when load trip points are needed and live display is not necessary. The switch output can trip alarms, temporarily disable controls or be used as a PLC input. Applications include overload protection, slackline prevention and batching. Often used with cranes, overhead hoists, elevators and within manufacturing presses. Dillon Force Control Switches can be outfitted with several trip points and are precisely set at the factory.

MODELS & CAPACITIES

Trip points may be set anywhere within the range shown.

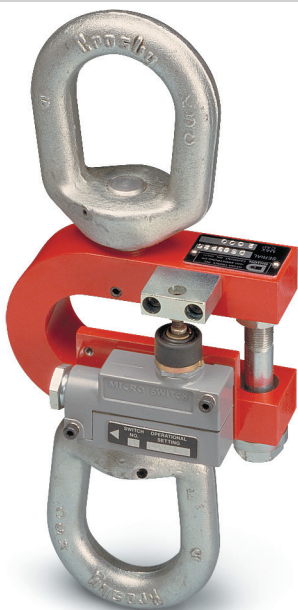
DynaSwitch

LB	KG
100 - 1000	50 - 500
200 - 2000	100 - 1000
500 - 5000	250 - 2500
1000 - 10,000	500 - 5000
1250 - 25,000	625 - 12,500
2500 - 50,000	1250 - 25,000

DynaSwitch™

The DynaSwitch is the most economical answer for load detection. Designed to be installed anywhere in line.

- **Fits your application:**
Many upper and lower hardware choices
- **Tension and compression models**
- **Safe:** Meets stringent standards for overhead lifting environments



INDICATOR

Dillon indicators convert voltage signals from a load cell or tension meter into an understandable reading in pounds, kilograms and Newtons. Several models are available for your needed features, power type and budget.

FI-521

The FI-521 is a high featured force indicator with three load cell memory and equipped with 80 Hz peak capture rate. Standard RS-232, analog output, two cutoffs and a seven pin quick disconnect for the load cell.

- **Display:** Seven digits, seven segment, 0.7" (17 mm) high ultra-bright LEDs with 14 annunciators
- **IP65**
- **Five point curve linerization**
- **Built-in real time and date clock**
- **Units of measure:** kgf, lbf, Newton
- **Two set point outputs**
- **Four remote keypad inputs**



DATA EXPORT PACK

The data export pack is a complete kit for exporting data into Excel from the serial port of a Dillon instrument (Excel will need to be set up with comma delimited format).

Data Export

The hardware wedge allows you to transfer RS-232 data into any application that supports keyboard input. When you plug the Hardware Wedge into a USB port on your PC, the drivers will automatically be installed within a few seconds.

- **Kit includes:** RS-232 hardware wedge with 6' USB cable and RS-232 to nine pin interface cable to PC
- **Standard configuration:** Set to 9600-N-8-1 (cannot be changed by the user)



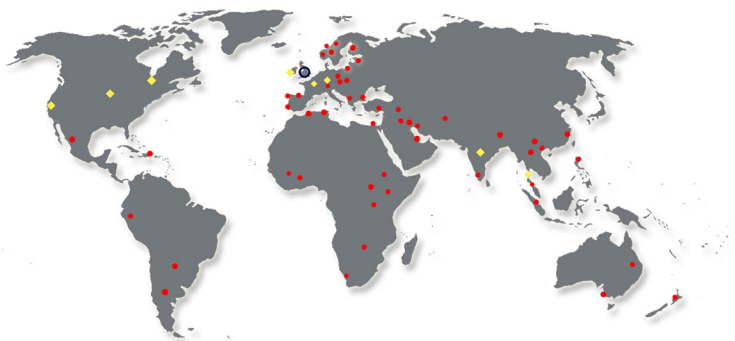
DILLON

Force Measurement Equipment

Dillon is a leading global provider of a comprehensive range of force measurement devices including dynamometers, crane scales and mechanical force gauges. Offering reliability and durability, Dillon customers rely on our overload protection and overhead weighing equipment to ensure the safety of their people and their products.

Since 1937 Dillon's force measurement equipment has proven itself in a wide variety of markets worldwide including lifting applications, telecommunications, aviation, military, public utilities and, lift maintenance.

Dillon is part of Avery Weigh-Tronix, one of the world's largest manufacturers of weighing equipment and solutions, established for more than 250 years.



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.

Contact your local dealer for expert sales & support.

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