

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



DILLON

Capacity x Readability
 220000 lb x 50 lb

Manufature: Dillon
SKU: AWT05-506309
 Free Ground Shipping within the 48 continental US States

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Features

EDXtreme Dynamometer - Lifting the bar in electronic dynamometers

Guesswork is not acceptable – failure is not an option. When you have people working around high tension cables and 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.

Features

- Dramatically improved battery life in the EDXtreme link
- Dramatically improved radio communications distance
- High speed Peak Capture 10/100/1,000 Hz
- Improved backlight intensity
- Lift and store of weight / force
- Date and time
- Continuous data storage
- Re-calibration reminder
- Can communicate with two Communicators via radio
- Overload at 120% with date and time record
- Sturdy aircraft-quality aluminum (shown) or alloy steel on high-capacity models
- 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
- Rounded ends reduce weight and prevent binding and snagging with rigging
- Popular industry-standard shackles insure proper fit

Uncompromising on safety and adaptable to the need

The EDXtreme exemplifies the trademark precision and rugged construction of Dillon dynamometers. Its highly refined design draws on the inherent strengths of premium-grade materials to achieve a 5:1 minimum factor of safety.*

* Models with 75 T/160,000 lb or higher capacity feature a 4:1 safety factor and 0.3% accuracy.

While the EDXtreme may be configured for something as simple as a digital hanging scale, it offers a higher level of intelligence. With user-defined functions and sophisticated communication options, the EDXtreme readily adapts to multi-tasking operations or multi-link systems capable of monitoring a series of critical stress points from a single location — it is the definition of application versatility.

For the toughest jobs you face

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 EDXtreme 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 powder coated aircraft-quality alloy steel. Lower capacity models are powder coated 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 EDXtreme design.
- **Retained hardware** – Allows permanent attachment of centering spacers, which eliminates fumbling during high capacity rigging.
- **NEMA 4X/IP55** – The EDXtreme is clearly the choice for reliability in any environment – in-plant or out on the job site

Xtreme accuracy: 0.1% High resolution and accurate repeatable readings are essential to proper weighing. The higher standards set for the EDXtreme 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.

* Models with 75 T/160,000 lb or higher capacity feature a 4:1 safety factor and 0.3% accuracy

Xtreme ease

- **Exclusive SOFTKEY interface** – Dillon has eliminated confusing menus for faster setup and simple operation. In addition to lbf, kgf and Newtons, programmable functions can correct for gravitational variations and allow the use of custom units of measurement
- **Wide-angle, backlit LCD** – Provides improved readability over a wider viewing angle and has backlighting for low light conditions.
- **Battery operation** – The EDXtreme is powered by two standard C-cell batteries. Batteries are easily accessible for fast replacement.

Configuration options

A basic stand-alone model can be easily upgraded "in-the-field" to accommodate changing needs. Remote configuration, data acquisition and single point monitoring of multiple links are all possible with the hardwired or radio communication options available with the EDXtreme. An RS-232 interface is standard on both the EDXtreme and Communicator for connection to a host PC. **Typical Configurations**

- Stand-alone EDx for direct measurement applications
- Single network with one EDx radio dynamometer and Communicator.
- Single network with multiple EDx dynamometers and one Communicator. The Communicator monitors the load at each scale, plus the total weight.
- Single network with two, three or four Communicators.
- Multiple networks with multiple EDx dynamometers and Communicators.

Communications unlock the full potential of the EDXtreme

One of the foremost reasons for choosing an electronic dynamometer is added functionality. The radio or hardwired options available with the EDXtreme offer the convenience and safety of remote operation. Additionally, data from the dynamometer(s) can be downloaded to a PC via an RS-232 connection for compilation and analysis or to generate hard-copy printouts. Remote control and radio communications are not new to the Dillon product line. In fact, it is the depth of Dillon's experience in this area that led to meaningful innovations in the design of the EDXtreme and its optional remote Communicator.

Improved radio performance - Unlike the many products on the market today, the EDXtreme radio dynamometer utilizes leading-edge 2.4Ghz radio frequency technology to eliminate common interference issues. This spread spectrum technology will establish and maintain the strongest, most reliable communications.

Dynamic monitoring and control - The optional Communicator is an extremely powerful hand-held remote that can define the function and manage the operation of one or more EDXtreme dynamometers using wired or radio technologies. Through the programmable SOFTKEY interface, one or more Communicators can monitor multiple dynamometers within the same airspace. In multiple-link lifting arrays, the Communicator can display readings at any or all lift points and calculate the total load.

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. In addition to the EDXtreme, Dillon's electronic line includes the EDjunior, an exceptional value for basic applications. Dillon also manufactures crane scales, high accuracy mechanical dynamometers and overload protection devices.

Specifications

Model	EDx-1T (EDx-2.5K)	EDx-2T (EDx-5K)	EDx-5T (EDx-10K)	EDx-10T (EDx-25K)	EDx-20T (EDx-50K)	EDx-50T (EDx-100K)	EDx-75T (EDx-160K)	EDx-100T (EDx-220K)	EDx-150T (EDx-330K)	EDx-250T (EDx-550K)
EDXtreme with two shackles & backlight	AWT05-506312	AWT05-506313	AWT05-506314	AWT05-506315	AWT05-506316	-	-	-	-	-
EDXtreme with two shackles & radio-ready** & backlight	AWT05-506302	AWT05-506303	AWT05-506304	AWT05-506305	AWT05-506306	AWT05-506307	AWT05-506308	AWT05-506309	AWT05-506310	AWT05-506311
Capacity x Resolution normal/enhanced	2,500 lbf x 2/0.5	5,000 lbf x 5/1	10,000 lbf x 10/2	25,000 lbf x 20/5	55,000 lbf x 50/10	100,000 lbf x 100/20	160,000 lbf x 100/50	220,000 lbf x 200/50	330,000 lbf x 200/100	550,000 lbf x 500/200
	2,500 lbf x 2/0.5	5,000 lbf x 5/1	10,000 lbf x 10/2	25,000 lbf x 20/5	55,000 lbf x 50/10	100,000 lbf x 100/20	160,000 lbf x 100/50	220,000 lbf x 200/50	330,000 lbf x 200/100	550,000 lbf x 500/200
	1,000 kgf x 1/0.2	2,000 kgf x 2/0.5	5,000 kgf x 5/1	10,000 kgf x 10/2	25,000 kgf x 20/5	50,000 kgf x 50/10	75,000 kgf x 50/20	100,000 kgf x 100/20	150,000 kgf x 100/50	250,000 kgf x 200/50
10,000 N x 10/2	20,000 N x 20/5	50,000 N x 50/10	100,000 N x 100/20	250,000 N x 200/50	500,000 N x 500/100	-	-	-	-	-
Overload	700%			500%			400%			
Construction	Aircraft-quality 2024 aluminum			Aircraft-quality E4340 alloy steel			Aircraft-quality E4340 alloy steel			
Enclosure	Designed to NEMA4X/IP55. Suitable for continuous outdoor use									
Accuracy	0.1% of capacity up to EDx-50T.* - 0.3% of capacity for EDx-75T and above.*									
Repeatability	0.1% of capacity up to EDx-50T.* - 0.3% of capacity for EDx-75T and above.*									
Proof Load	150% of capacity up to EDx-75T. - 110% of capacity EDx-100T and above.									
Ultimate Overload	See table on reverse									
Safe Overload	200% of capacity									
Body Protection	Aluminum and alloy steel capacities are powder coated.									
Bearings:	Unmatched repeatability attained by needle bearings in shackle pin holes up to EDx-5T. Shackle pin acts as inner race									
Shackles	Forged industry standard anchor shackles. Models up to EDx-5T use precision machined shackle pin. Higher capacities use bar stock pin									
Display	128 x 64 dot-graphic LCD display shows up to 6 digits 1.0" (26 mm) high plus annunciators and softkeys. Digits are .11 inches (3 mm) thick for unmatched readability.									
Display Update Rate	2 times per second.									
Peak Capture Rate	10/100/1,000 Hz									
Connector	Recessed sealed connector may be used for serial communications or connection to a Communicator II remote.									
RS-232 Communication	Print or extract data easily. Continuous output can drive a scoreboard. Configurable poll character.									
Calibration	Traceable to the National Institute of Standards and Technology. Certificate included with curve of readings. Passes only with three consecutive confirming runs, with all points in specification									
Battery Life	Stand alone EDXtreme with no radio and no backlight lasts up to 400+ hours. 150 hours continuous with Radio Link System. Use with two C-Cell alkaline batteries. (When using backlight, battery life will be reduced, depending on intensity.)									
Operating Temperature	-4° F to 158° F (-20° to 70° C)									
Included with Instrument	All include certificate of calibration, manual and batteries. Plastic carry case included for EDx-1T to EDx-50T. Higher capacities include rugged plywood storage crate. Instruments with shackles include centering spacers (EDx-20T & up) and shackle storage crate (EDx-20T to EDx-75T). Display backlight.									
Options	Shackles. Radio communications									
Approval	CE									

* Normal resolution mode with Dillon provided shackles.

Radio Specifications

FCC Certified	For unlicensed low power devices. No radio licensing or permits required for normal operation.* (In the US and Canada. Check local ordinances in other countries.)
Frequency	ISM 2.4 GHz frequency band operates between 2.4 to 2.4835 GHz.
Output Level	10 mW (10 dBm)
Display Update Rate	1 time per second.
Number of Links Remote Can Control	Up to 15 addresses.
Configuration Address	Automatic and configurable
Antenna	Integral antenna.
Range	Open-air range up to 600 feet, line-of-sight. Indoor range dependent upon environment with 300 feet common. Low power radio systems are dependent upon interference levels from other radio systems and environmental conditions. Radio devices are not suitable for all applications.

Weights

Model	Unit Weight	Weight with Shackles	Approximate Shipping Weight
EDx-1T	4.3 lb (2.0 kg)	8.6 lb (3.9 kg)	13 lb (6 kg)

EDx-2T	4.4 lb (2.0 kg)	8.7 lb (3.9 kg)	13 lb (6 kg)
EDx-5T	5.6 lb (2.5 kg)	14 lb (6.1 kg)	22 lb (10 kg)
EDx-10T	16 lb (7.3 kg)	40 lb (18 kg)	46 lb (21 kg)
EDx-20T	25 lb (11 kg)	96 lb (43 kg)	125 lb (56 kg)
EDx-50T	38 lb (17 kg)	238 lb (108 kg)	296 lb (134 kg)
EDx-75T	54 lb (25 kg)	250 lb (114 kg)	325 lb (145 kg)
EDx-100T	70 lb (32 kg)	410 lb (186 kg)	480 lb (218 kg)
EDx-150T	120 lb (54 kg)	650 lb (295 kg)	750 lb (340 kg)
EDx-250T	250 lb (113 kg)	1,490 lb (675 kg)	1,600 lb (725 kg)

Dimensions inches (mm)

Model	A	B	C	D	E	D	E	F	G	H	J
EDx-1T	10.6 (269)	5.0 (127)	7.8 (198)	1.06 (26)	0.75 (19)	15.3 (389)	13.4 (340)	1.36 (34)	1.69 (43)		
EDx-2T	10.6 (269)	5.0 (127)	7.8 (198)	1.06 (26)	0.75 (19)	15.3 (389)	13.4 (340)	1.36 (34)	1.69 (43)		
EDx-5T	11.4 (289)	5.3 (135)	8.1 (206)	1.38 (35)	1.00 (25)	17.8 (451)	15.8 (402)	2.17 (56)	2.28 (58)		
EDx-10T	11.5 (291)	5.3 (133)	7.9 (201)	1.97 (50)	1.38 (35)	21.6 (548)	18.8 (478)	3.67 (93)	3.25 (83)		
EDx-20T	13.7 (348)	6.0 (152)	9.0 (229)	2.75 (70)	2.0 (51)	29.7 (754)	25.2 (640)	5.7 (146)	5.0 (127)		
EDx-50T	15.8 (400)	6.8 (172)	10.3 (262)	3.88 (99)	2.75 (70)	40.5 (1029)	34.3 (870)	9.3 (235)	7.3 (184)		
EDx-75T	16.5 (419)	7.8 (197)	10.3 (262)	3.88 (99)	2.75 (70)	40.5 (1030)	34.3 (870)	8.9 (225)	7.3 (184)		
EDx-100T	18.0 (457)	7.8 (197)	11.0 (280)	5.00 (127)	3.25 (83)	47.7 (1211)	40.5 (1027)	11.2 (284)	7.8 (200)		
EDx-150T	21.0 (533)	8.8 (222)	12.6 (321)	5.25 (133)	3.75 (95)	53.9 (1368)	45.6 (1159)	12.3 (313)	9.0 (229)		
EDx-250T	27.0 (686)	9.8 (248)	17.5 (445)	8.5 (216)	5.00 (127)	75.8 (1925)	62.8 (1595)	17.9 (454)	13.0 (330)		

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