

# EDXtreme Dynamometer Specifications

# DILLON

## Capacity & Resolution

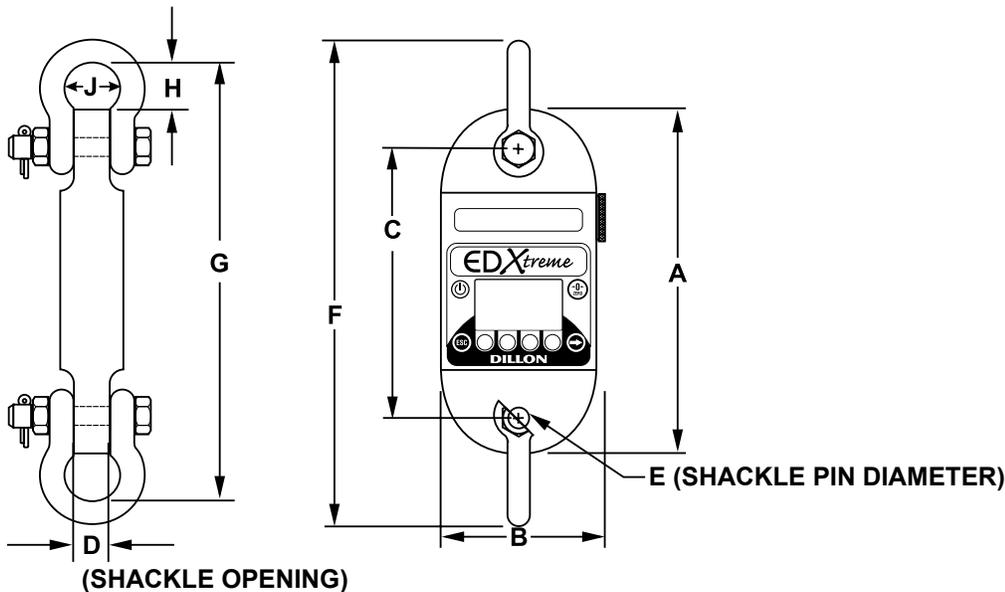
Model*	Capacity x Resolution (normal/enhanced)			Overload <sup>†</sup>	Construction
EDx-1T (EDx-2.5K)	2,500 lbf x 2/0.5	1,000 kgf x 1/0.2	10,000 N x 10/2	700%	Aircraft-quality 2024 aluminum
EDx-2T (EDx-5K)	5,000 lbf x 5/1	2,000 kgf x 2/0.5	20,000 N x 20/5		
EDx-5T (EDx-10K)	10,000 lbf x 10/2	5,000 kgf x 5/1	50,000 N x 50/10		
EDx-10T (EDx-25K)	25,000 lbf x 20/5	10,000 kgf x 10/2	100,000 N x 100/20	500%	Aircraft-quality E4340 alloy steel
EDx-20T (EDx-50K)	50,000 lbf x 50/10	20,000 kgf x 20/5	200,000 N x 200/50		
EDx-50T (EDx-100K)	100,000 lbf x 100/20	50,000 kgf x 50/10	500,000 N x 500/100		
EDx-75T (EDx-160K)	160,000 lbf x 100/50	75,000 kgf x 50/20	—	400%	Aircraft-quality E4340 alloy steel
EDx-100T (EDx-220K)	220,000 lbf x 200/50	100,000 kgf x 100/20	—		
EDx-150T (EDx-330K)	330,000 lbf x 200/100	150,000 kgf x 100/50	—		
EDx-250T (EDx-550K)	550,000 lbf x 500/200	250,000 kgf x 200/50	—		

\* Model number in parenthesis shows U.S. convention for describing capacities. <sup>†</sup> Ultimate overload protection rating.

## Dimensions inches (mm)

Model	A	B	C	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)

Dimensions shown are nominal and subject to tolerances.



## Dynamometer Specifications

**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.\*

\* Normal resolution mode with Dillon provided shackles.

**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

## Communicator II Specifications

**Enclosure:** Designed to NEMA 3 / IP54 with optional sleeve. Suitable for protected outdoor use.

**Instrument Size:** 9.5 x 5.0 x 2.5 inch (241 x 127 x 64mm).

**Accuracy:** Not applicable. Only sends and receives digital information.

**Display:** 128 x 64 dot-graphic LCD display can show full readings up to 5 instruments.

**Battery Life:** Up to 80 hours continuous radio using (4) AA alkaline batteries.

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

**Connectors:** Sealed connectors may be used for serial communications and wired connection to an EDxtreme dynamometer.

**RS-232 Communication:** Print or extract data easily. Continuous output can drive a scoreboard. Configurable poll character.

**Included with Remote:** Carry case and batteries

**Accessories:** Rubberized case protector sleeve.

Remote wall mount bracket. Serial and remote cable assemblies.

**Approval:** CE

## 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 pounds (kg)

Model	Unit Weight	Weight with Shackles	Approximate Shipping Weight
EDx-1T	4.3 (2.0)	8.6 (3.9)	13 (6)
EDx-2T	4.4 (2.0)	8.7 (3.9)	13 (6)
EDx-5T	5.6 (2.5)	14 (6.1)	22 (10)
EDx-10T	16 (7.3)	40 (18)	46 (21)
EDx-20T	25 (11)	96 (43)	125 (56)
EDx-50T	38 (17)	238 (108)	296 (134)
EDx-75T	54 (25)	250 (114)	325 (145)
EDx-100T	70 (32)	410 (186)	480 (218)
EDx-150T	120 (54)	650 (295)	750 (340)
EDx-250T	250 (113)	1,490 (675)	1,600 (725)
Communicator	1.25 (.6)	—	10 (5)

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