

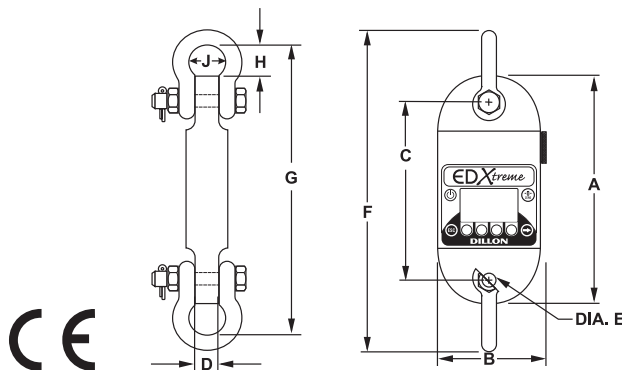
# EDxtreme Dynamometer Specifications

# DILLON

Model	Capacity x Resolution (normal/enhanced)			Body Construction and Overload Design
<b>EDx-1T</b> (EDx-2.5K)	2,500 lbf x 2/0.5	1,000 kgf x 1/0.2	10,000 N x 10/2	Aircraft quality 2024 Aluminum 700% Ultimate overload protection
<b>EDx-2T</b> (EDx-5K)	5,000 lbf x 5/1	2,000 kgf x 2/0.5	20,000 N x 20/5	
<b>EDx-5T</b> (EDx-10K)	10,000 lbf x 10/2	5,000 kgf x 5/1	50,000 N x 50/10	
<b>EDx-10T</b> (EDx-25K)	25,000 lbf x 20/5	10,000 kgf x 10/2	100,000 N x 100/20	Aircraft quality E4340 Alloy Steel 500% Ultimate overload protection
<b>EDx-20T</b> (EDx-50K)	50,000 lbf x 50/10	20,000 kgf x 20/5	200,000 N x 200/50	
<b>EDx-50T</b> (EDx-100K)	100,000 lbf x 100/20	50,000 kgf x 50/10	500,000 N x 500/100	
<b>EDx-75T</b> (EDx-160K)	160,000 lbf x 100/50	75,000 kgf x 50/20	-----	Aircraft quality E4340 Alloy Steel 400% Ultimate overload protection
<b>EDx-100T</b> (EDx-220K)	220,000 lbf x 200/50	100,000 kgf x 100/20	-----	
<b>EDx-150T</b> (EDx-330K)	330,000 lbf x 200/100	150,000 kgf x 100/50	-----	
<b>EDx-250T</b> (EDx-550K)	550,000 lbf x 500/200	250,000 kgf x 200/50	-----	

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

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



# EDxtreme Electronic Dynamometer

## 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.
- Connector:** Recessed sealed connector may be used for serial communications or connection to a Communicator remote.
- RS-232 / RS-485 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:** 320 hours typical use with two C-cell alkaline batteries.  
40 hours typical with Radio Link system.
- Operating Temperature:** -4° F to 140° F (-20° to 60° 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.

## Communicator Specifications

- Enclosure:** Designed to NEMA 3 / IP44 with optional sleeve.  
Suitable for protected outdoor use.
- Instrument Size:** 9.0 x 4.6 x 1.8 inch (228 x 117 x 45mm).
- 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:** 40 hours radio or 45 wireline using four AA alkaline batteries under typical use.
- Operating Temperature:** -4° F to 140° F (-20° to 60° 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.

## 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:** 2.4 GHz spread-spectrum operates between 2.402 – 2.478 GHz. Continuously and automatically changes frequencies many times per second for consistent, reliable communications.
- Output Level:** 10 mW (10 dBm)
- Display Update Rate:** 2 times per second with single dynamometer.  
Multi-instrument networks result in reduced updates.
- Number of Networks:** 63 remotes can operate independently in the same airspace with unique channels.
- Number of Links Remote Can Control:** Up to 15 addresses are available per network channel.
- Configuration:** Address and network channels are front-panel configurable.
- Antenna:** Integral antenna.
- Range:** Open-air – Up to 300 feet, line-of-sight.  
Indoors – Dependent upon environment with 150 feet common.
- Approval:** FCC ID: KQL-PKLR2400  
CAN ID: CAN22683911584  
CE: EMC 89/336 Machinery Safety 98/37
- 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	Approx. Shipping Weight
EDx-1T	lb	4.3	8.6
	kg	2.0	3.9
EDx-2T	lb	4.4	8.7
	kg	2.0	3.9
EDx-5T	lb	5.6	14
	kg	2.5	6.1
EDx-10T	lb	16	40
	kg	7.3	18
EDx-20T	lb	25	96
	kg	11	43
EDx-50T	lb	38	238
	kg	17	108
EDx-75T	lb	54	250
	kg	25	114
EDx-100T	lb	70	410
	kg	32	186
EDx-150T	lb	120	650
	kg	54	295
EDx-250T	lb	250	1,490
	kg	113	675
Communicator	lb	1	n/a
	kg	.5	5

## 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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