

The Model U Force Gauge is an accurate ($\pm 1\%$ of full range) mechanical compression-measurement instrument. Its slim-line design has repeatedly proven valuable in installations where space is at a premium. The versatility of this simple instrument is demonstrated by the fact that it can be used as a handheld device, permanently mounted on a flat surface plate, or used in test fixtures.



DILLON

Manufacture: Dillon

SKU: 30354-0090

Weight: 2.50 lb

Free Ground Shipping within the 48 continental US States

Please Call (800)832-0055

Features

The Model U Force Gauge is an accurate ($\pm 1\%$ of full range) mechanical compression-measurement instrument. Its slim-line design has repeatedly proven valuable in installations where space is at a premium. The versatility of this simple instrument is demonstrated by the fact that it can be used as a handheld device, permanently mounted on a flat surface plate, or used in test fixtures.

Dillon Model U Force Gauge **Low-Range RECESSED Bottom** comes with:

- Force Gauge Assembly
- Carrying Case
- Two (2) Compression Load Fittings of Choice

Dillon Model U Force Gauge **Low-Range FLAT Bottom** comes with:

- Force Gauge Assembly
- Carrying Case
- One (1) Compression Load Fittings of Choice

Dillon Model U Force Gauge **High-Range FLAT Bottom** comes with:

- Force Gauge Assembly
- Carrying Case
- One (1) Compression Load Fittings of Choice

How the U Force Gauge Works

The Dillon Model U Force Gauge employs a deflection beam machined from aircraft quality alloy steel and heat treated to develop optimum strength and spring characteristics. A precision dial indicator is mounted at the null point of this beam.

Compression force is normally applied against a single pressure fitting mounted on the upper half of the beam. (For accurate calibration, designate the type of pressure fitting you wish to use with the U Force Gauge. They are of four types: domed, cupped, flat, or a flat nylon insert. Flat bottom gauges require only one fitting. Recessed bottom gauges have top and bottom fittings). When load is exerted, the beam moves downward causing a slanted anvil on the free end to push against the indicator plunger. The indicator reading is a direct representation of the applied load. **PLEASE NOTE! **Recessed Bottom Optional on All Low-Range Models ONLY****

Part Numbers & Weight Capacities for The Dillon Model U Force Gauge (Low Range Recessed-Bottom)			
Pounds (lb)		Kilograms (kg)	
Part Number	Capacity x Dial Divisions	Part Number	Capacity x Dial Divisions
30489-0015	25lb x 0.25 (lb)	30489-0064	10kg x 0.10 (kg)
30489-0023	50lb x 0.50 (lb)	30489-0072	25kg x 0.25 (kg)
30489-0031	100lb x 1 (lb)	30489-0080	50kg x 0.50 (kg)
30489-0056	250lb x 2.50 (lb)	30489-0098	100kg x 1 (kg)
Part Numbers & Weight Capacities for The Dillon Model U Force Gauge (Low Range Flat-Bottom)			
Pounds (lb)		Kilograms (kg)	
Part Number	Capacity x Dial Divisions	Part Number	Capacity x Dial Divisions
30354-0017	25lb x 0.25 (lb)	30354-0066	10kg x 0.10 (kg)
30354-0025	50lb x 0.50 (lb)	30354-0074	25kg x 0.25 (kg)
30354-0033	100lb x 1 (lb)	30354-0082	50kg x 0.50 (kg)
30354-0058	250lb x 2.50 (lb)	30354-0090	100kg x 1 (kg)
Part Numbers & Weight Capacities for The Dillon Model U Force Gauge (High-Range Flat-Bottom)			
Pounds (lb)		Kilograms (kg)	
Part Number	Capacity x Dial Divisions	Part Number	Capacity x Dial Divisions
30482-0020	500lb x 5 (lb)	- N/A -	- N/A -
30482-0053	1,000lb x 10 (lb)	30482-0079	500kg x 5 (kg)
30478-0018	2,000lb x 20 (lb)	30478-0042	1,000kg x 10 (kg)
30478-0034	5,000lb x 50 (lb)	- N/A -	- N/A -
30432-0039	10,000lb x 100 (lb)	30432-0054	5,000kg x 50 (kg)

Dillon offers a capacity for every job

U Force Gauges are available for measurement in pounds, kilograms or newtons. There are 9-pound capacities ranging from 25 x .25 to 10,000 x 100 lb. The 7 kilogram capacities range from 10 x .1 to 5000 x 50 kg. On light capacity models with capacities from 25 to 250 lb or 10 to 100 kg, you can choose between flat bottom and recessed design.

Features

- Slim design works in small spaces
- Multiple choices of pressure fittings
- Mount permanently, flat, in test fixtures or by hand



Low-Range Flat-Bottom Model U Force Gauge														
Part Number	Capacity in Pounds (Kilograms)	A in.(mm)	B in. (mm)	C in. (mm)	D in. (mm)	E in. (mm)	F in. (mm)	G in. (mm)	H in. (mm)	J in. (mm)	K in. (mm)	L in. (mm)	M in. (mm)	N in. (mm)
30354-0017 (30354-0066)	25 x .25 (10 x .1)	3.28 (83.3)	5.50 (139.6)	.73 (18.5)	.36 (9.1)	.97 (24.6)	.56 (14.2)	.90 (22.8)	1.40 (35.5)	1.87 (47.5)	.46 (11.7)	.094 (2.4)	.349 (8.9)	1.67 (42.4)
30354-0025 (30354-0074)	50 x .5 (25 x .25)	3.28 (83.3)	5.50 (139.6)	.73 (18.5)	.36 (9.1)	.97 (24.6)	.56 (14.2)	.90 (22.8)	1.40 (35.5)	1.87 (47.5)	.46 (11.7)	.094 (2.4)	.349 (8.9)	1.67 (42.4)
30354-0033 (30354-0082)	100 x 1 (50 x .5)	3.28 (83.3)	5.50 (139.6)	.73 (18.5)	.36 (9.1)	.97 (24.6)	.56 (14.2)	.90 (22.8)	1.40 (35.5)	1.87 (47.5)	.46 (11.7)	.094 (2.4)	.349 (8.9)	1.67 (42.4)
30354-0058 (30354-0090)	250 x 2.5 (100 x 1)	3.28 (83.3)	5.50 (139.6)	.73 (18.5)	.36 (9.1)	.97 (24.6)	.56 (14.2)	.90 (22.8)	1.40 (35.5)	1.87 (47.5)	.46 (11.7)	.094 (2.4)	.349 (8.9)	1.67 (42.4)
Also available in newton calibration (Call for Information (800) 832-0055)														

Low-Range Recessed-Bottom Model U Force Gauge														
Part Number	Capacity in Pounds (Kilograms)	A in.(mm)	B in. (mm)	C in. (mm)	D in. (mm)	E in. (mm)	F in. (mm)	G in. (mm)	H in. (mm)	J in. (mm)	K in. (mm)	L in. (mm)	M in. (mm)	N in. (mm)
30489-0015 (30489-0064)	25 x .25 (10 x .1)	3.28 (83.3)	5.50 (139.6)	.73 (18.5)	.36 (9.1)	.97 (24.6)	.56 (14.2)	.90 (22.8)	1.40 (35.5)	1.87 (47.5)	.46 (11.7)	.094 (2.4)	.394 (8.9)	1.67 (42.4)
30489-0023 (30489-0072)	50 x .5 (25 x .25)	3.28 (83.3)	5.50 (139.6)	.73 (18.5)	.36 (9.1)	.97 (24.6)	.56 (14.2)	.90 (22.8)	1.40 (35.5)	1.87 (47.5)	.46 (11.7)	.094 (2.4)	.394 (8.9)	1.67 (42.4)
30489-0031 (30489-0080)	100 x 1 (50 x .5)	3.28 (83.3)	5.50 (139.6)	.73 (18.5)	.36 (9.1)	.97 (24.6)	.56 (14.2)	.90 (22.8)	1.40 (35.5)	1.87 (47.5)	.46 (11.7)	.094 (2.4)	.394 (8.9)	1.67 (42.4)
30489-0056 (30489-0098)	250 x 2.5 (100 x 1)	3.28 (83.3)	5.50 (139.6)	.73 (18.5)	.36 (9.1)	.97 (24.6)	.56 (14.2)	.90 (22.8)	1.40 (35.5)	1.87 (47.5)	.46 (11.7)	.094 (2.4)	.394 (8.9)	1.67 (42.4)
Also available in newton calibration (Call for Information (800) 832-0055)														

High-Range Flat-Bottom Model U Force Gauge											
Part Number	Capacity in Pounds (Kilograms)	A in. (mm)	B in. (mm)	C in. (mm)	D in. (mm)	E in. (mm)	F in. (mm)	G in. (mm)	H in. (mm)	J in. (mm)	N in. (mm)
30482-0020 (N/A)	500 x 5 (N/A)	3.87 (98.0)	6.75 (171.3)	.98 (24.9)	.49 (12.4)	1.25 (31.5)	.92 (23.6)	1.52 (38.6)	1.67 (42.4)	2.44 (63.5)	2.25 (57.2)
30482-0053 (30482-0079)	1,000 x 10 (500 x 5)	3.87 (98.0)	6.75 (171.3)	.98 (24.9)	.49 (12.4)	1.25 (31.5)	.92 (23.6)	1.52 (38.6)	1.67 (42.4)	2.44 (63.5)	2.25 (57.2)
30478-0018 (30478-0042)	2,000 x 20 (1000 x 10)	4.74 (120.1)	7.94 (201.5)	.98 (24.9)	.49 (12.4)	1.72 (43.7)	1.41 (35.5)	2.06 (52.3)		2.88 (72.8)	2.75 (69.9)
30478-0034 (N/A)	5,000 x 50 (N/A)	4.74 (120.1)	7.94 (201.5)	.98 (24.9)	.49 (12.4)	1.72 (43.7)	1.41 (35.5)	2.06 (52.3)		2.88 (72.8)	2.75 (69.9)

30432-0039 (30432-0054)	10,000 x 100 (5000 x 50)	4.35 (110.2)	9.19 (233.2)	1.44 (36.5)	.72 (18.3)	2.12 (53.8)	1.82 (46.0)	2.31 (58.6)	2.32 (58.9)	3.72 (94.4)	3.62 (91.9)
Also available in newton calibration (Call for Information (800) 832-0055)											

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