### **Dillon Model U Force Gauges**

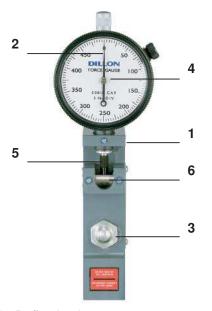
#### Slim line design for added versatility.

The Model U Force Gauge is an accurate (±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.

# 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.



- 1. Deflection beam
- 2. Indicator with zero at 6:00 position
- 3. Pressure fitting
- 4. Maximum pointer (optional)
- 5. Indicatorplunger
- 6. Slanted anvil

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).

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.

# Dillon offers a capacity for every job

U Force Gauges are available for measurement in pounds or kilograms. There are 6-pound capacities ranging from 25 x .25 to 5,000 x 50 lb. The 4 kilogram capacities range from 10 x .1 to 500 x 5 kg.

Dillon also offers high-capacity gauges with pounds capacities from 500 to 5,000 lb and a metric model with a capacity of 500 kg. High-capacity gauges all have flat-bottom design.

#### **Options**



**Zero position**—The zero position on the indicator dial can be factory positioned at 12 o'clock, 3 o'clock, 6 o'clock, or 9 o'clock. The standard position is the 6 o'clock position.

Maximum pointer—Model U Force Gauges can include a maximum pointer which remains at peak load until it is reset.

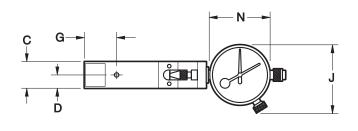
**Shockless dial indicator**—Offers added protection in applications where force is applied or released rapidly.

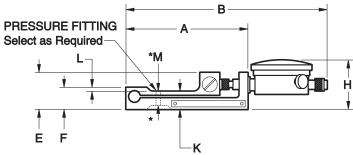
**Dial orientation**—The dial indicator can be factory positioned at 0° (standard), 90°, 180°, 270° clockwise. Photos on this page show standard dial orientation.

Note: maximum pointer and shockless dial indicator cannot be offered on the same unit.

#### Certificate of Calibration

An official Certificate of Calibration traceable to NIST, dated and signed, accompanies each new or factory serviced Dillon U Force Guage.

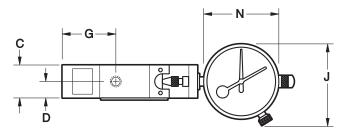


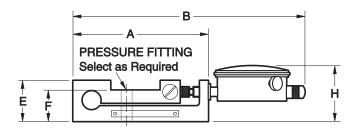


## Low-Range Flat-Bottom Model U Force Gauge

Part No.	Pounds	Part No.	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)
30354-0017		30354-0066		3.28	5.50	.73	.36	.97	.56	.90	1.40	1.87	.46	.094	1.67
30354-0033	100 x 1	30354-0082	) 50 x 5	(83.3)	(139.6)	(18.5)	(9.1)	(24.6) .97	(14.2)	.90	(35.5)	(47.5) 1.87	(11.7)	.094	(42.4) 1.67
				(83.3)	(139.6)	(18.5)	(9.1)	(24.6)	(14.2)	(22.8)	(35.5)	(47.5)	(11.7)	(2.4)	(42.4)
30354-0058	250 x 2.5	30354-0090	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)	1.67 (42.4)

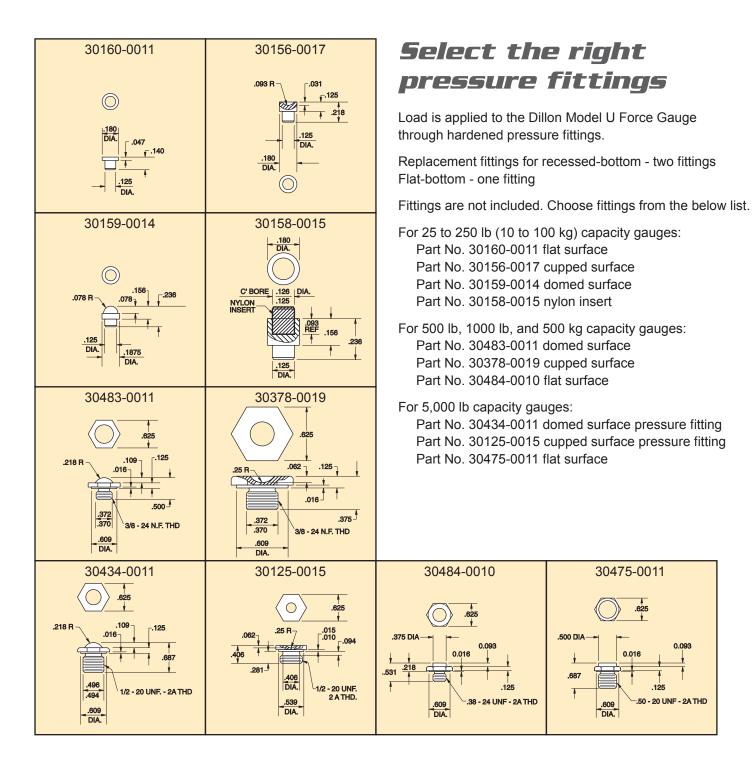
Also available in newton calibration





## **High-Range Flat Bottom Model U Force Gauge**

				Α	В	С	D	Ε	F	G	Н	J	N
Part No.	Pounds	Part No.	Kilograms	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)
30482-0020	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)
30482-0053	1,000 x 10	30482-0079	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)
30478-0034	5,000 x 50			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)	2.06 (52.3)	2.88 (72.8)	2.75 (69.9)



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