

# Chatillon® DG Series Mechanical Force Gauge

Specification Sheet

SS-DG-0210

February 2010

The CHATILLON® DG Series mechanical force gauge is ideal for a wide range of force testing applications up to 500 lbf (2.5 kN). Based on our popular DPPH Series force gauge, the DG Series features a larger, 2.25-inch dial for improved resolution and readability, peak hold button, durable plastic housing, universal mounting plate, ergonomic shape and improved accuracy of  $\pm 0.5\%$  of full scale. The DG gauge is an excellent, economical solution for tensile or compression testing.

The DG Series may be used as a hand-held device or equipped with an optional handle set for two-hand operation. It is ideal for test stand applications, and when combined with the MT500 Series mechanical test stand, offers you a versatile, economic test system with a capacity of up to 500 lbf (2.5 kN).

The DG Series features an easy to read concentric dial that measures clockwise only. Dial rotates 360-degrees for taring. A peak hold switch captures peak readings and can be easily and quickly returned to zero. A mechanical overload feature protects the gauge from damage. Available in lbf, kgf or N units of measure. DG Series gauges come complete with protective carrying case and a set of stainless steel attachments. A Certificate of Calibration with NIST Data is supplied standard.

## Features

- Three Graduation Styles
  - LBF
  - KGF
  - Newtons
- Tensile (Pull) and Compression (Push) Testing
- Peak Load Switch
- Tare Ring
- Intrinsically Safe
- NIST Calibration with Data
- 2 Year Warranty

## Specifications

<b>Accuracy:</b>	$\pm 0.5\%$ of Full Scale
<b>Overload Capacity:</b>	110% of Rated Capacity
<b>Maximum Overload:</b>	150% of Rated Capacity
<b>Tare Capacity:</b>	10% of Rated Capacity
<b>Dial Resolution:</b>	0.5% of Full Scale
<b>Deflection (Full Scale):</b>	10mm (.394 inches)
<b>Operating Temperature:</b>	40°F to 110°F 5°C to 45°C
<b>Instrument Weight:</b>	4.7 lbs (0.68 kg)
<b>Shipping Weight:</b>	8.4 lbs (3.80 kg)



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Force Measurement

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## Ordering

### Dial Style - LBF

Model	Capacity
DG-200	200 x 1 lbf
DG-300	300 x 1.5 lbf
DG-400	400 x 2 lbf
DG-500	500 x 2.5 lbf

### Dial Style - KGF

Model	Capacity
DG-100KG	100 x 0.5 kgf
DG-250KG	250 x 1.25 kgf

### Dial Style - N

Model	Capacity
DG-1000N	1000 x 5 N
DG-2500N	2500 x 12.5 N

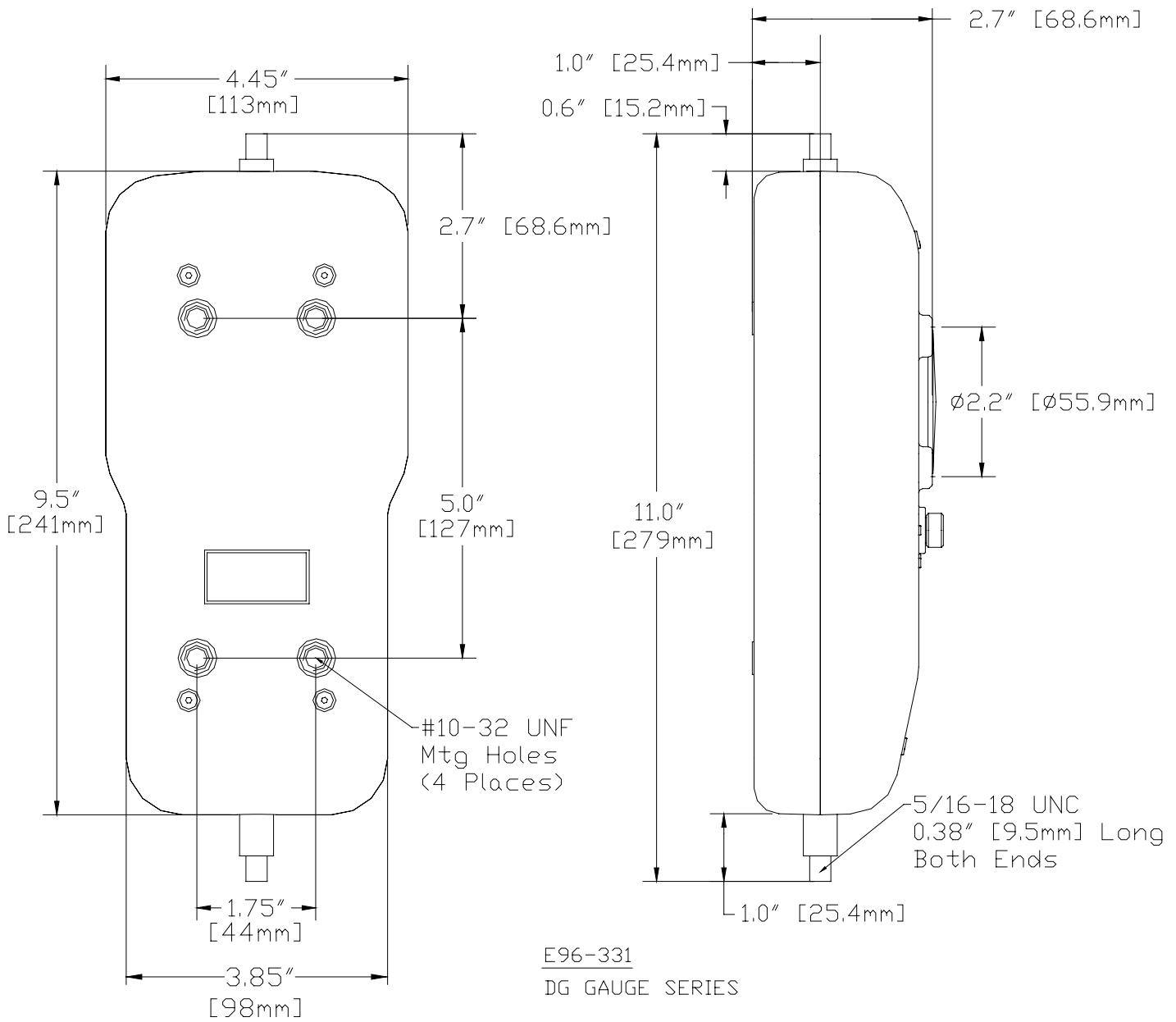
### Accessories

Part No.	Description	DG-XXXX	Capacity	Thread
SPK-FMG-011B	Flat Adapter	■	500 lbf, 2.5 kN	5/16-18F
SPK-FMG-012C	Hook, Stationary	■	500 lbf, 2.5 kN	5/16-18F
NC002500	Hook, with Snap Latch	●	500 lbf, 2.5 kN	5/16-18F
SPK-FMG-008B	Chisel Point Adapter	■	500 lbf, 2.5 kN	5/16-18F
SPK-FMG-009B	Point Adapter	■	500 lbf, 2.5 kN	5/16-18F
SPK-FMG-010B	Notch Adapter	■	500 lbf, 2.5 kN	5/16-18F
NC000725	V-Notch Fixture, Large	●	500 lbf, 2.5 kN	5/16-18F
NC000721	V-Notch Fixture, Small	●	500 lbf, 2.5 kN	5/16-18F
SPK-FMG-013B	Extension Rod, 13-inch	■	500 lbf, 2.5 kN	5/16-18F
SPK-FMG-142	Curved Compression Fixture	●	500 lbf, 2.5 kN	5/16-18F
SPK-FMG-143	Compression Plate, Circular	●	500 lbf, 2.5 kN	5/16-18F
SPK-FMG-144	Palm Fixture	●	500 lbf, 2.5 kN	5/16-18F
SPK-FMG-145	Compression Plate, Rectangular, Large	●	500 lbf, 2.5 kN	5/16-18F
SPK-FMG-146	Compression Plate, Rectangular, Small	●	500 lbf, 2.5 kN	5/16-18F
NC002844	Grasping Cable	●	500 lbf, 2.5 kN	5/16-18F
SPK-DG-HANDLE	Handle Assembly	●	500 lbf, 2.5 kN	5/16-18F
NC002728	DG Series Carrying Case	■		
NC002845	Soft Case Fanny Pack	●		

Standard Accessory = ■

Optional Accessory = ●

## Dimensions



### MEASUREMENT & CALIBRATION TECHNOLOGIES

For the authorized Chatillon Distributor or Manufacturer's Representative near you, go to [www.chatillon.com](http://www.chatillon.com)

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Manufacturer