

# 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)



## Ordering

### Dial Style - LBF

Model	Capacity
<b>DG-200</b>	200 x 1 lbf
<b>DG-300</b>	300 x 1.5 lbf
<b>DG-400</b>	400 x 2 lbf
<b>DG-500</b>	500 x 2.5 lbf

### Dial Style - KGF

Model	Capacity
<b>DG-100KG</b>	100 x 0.5 kgf
<b>DG-250KG</b>	250 x 1.25 kgf

### Dial Style - N

Model	Capacity
<b>DG-1000N</b>	1000 x 5 N
<b>DG-2500N</b>	2500 x 12.5 N

### Accessories

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

Standard Accessory = ■

Optional Accessory = ●

# Dimensions

