

Chatillon®

X-3328 Series Digital Force Gauge

Specification Sheet

SS-X3328-0210

February 2010

The CHATILLON® X-3328 Series is ideal for job task analysis and ergonomic evaluations. This compact, easy-to-use force gauge has a measurement accuracy of better than 0.1% full scale. A large, easy-to-read, high resolution dot matrix LCD display supports a variety of measurements including normal and peak readings, force comparisons, pass/fail results, statistical results, measurement actuation and direction. Measurements are displayed in ozf, gf, lbf, kgf and N units. The display can be inverted and displayed results may be "hidden" from the patient during testing. The X-3328 gauge comes standard with carrying case, battery adapter/charger and NIST Certificate of Calibration with data. A variety of testing fixtures are supplied standard. The gauge has an RS232 digital output that can be used with our TCD WEDGE application software and your personal computer for downloading and analyzing measurement and results data.

Features

- Advanced Operating Modes
 - Load Comparison
 - Normal
 - Peak Load
 - Load Limits
 - Pass-Fail Limits
- Statistical Calculations
 - Mean with Maximum and Minimum Values
 - Coefficient of Variation with Mean and Standard Deviation
 - Standard Deviation with Variance and Mean
 - % Differentiation
- Integral Loadcells
 - Accuracy $\pm 0.1\%$ Full Scale
 - Mechanical Overload Protection to 150% Full Scale
- Simple Operator Interface
 - High Resolution Dot-Matrix
 - Menus with Prompts for Easy Use
 - Dedicated and Function Keys with Navigation Pod
- NIST Calibration with Data
 - Available IEC/ISO17025 Cert with Uncertainty
- 2 Year Warranty



Shown: X3328 Series with standard accessories

Notice

The X-3328 digital force gauge is a general purpose force measurement instrument. It is not intended for applications requiring Class 2 designation by the United States Food & Drug Administration or by Health Canada.

Quality Assured.

AMETEK® | **Chatillon®**
Force Measurement

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www.chatillon.com

Ordering

Standard Models

Model	Capacities		
X3328-100	100 x 0.01 lbf	50 x 0.005 kgf	500 x 0.05 N
X3328-200	200 x 0.02 lbf	100 x 0.01 kgf	1000 x 0.1 N
X3328-500	500 x 0.05 lbf	250 x 0.02 kgf	2500 x 0.2 N

X3328 Series Accessories

Part No.	Description	X3328-XXX	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 Loop	■	500 lbf, 2.5 kN	5/16-18F
NC000857	Knurled Nut	■	500 lbf, 2.5 kN	5/16-18F
SPK-FMG-141	Pistol Grip	■	500 lbf, 2.5 kN	5/16-18F
SPK-DF-HANDLE	Handle Assembly	■	500 lbf, 2.5 kN	5/16-18F
SPK-FMG-015	Hex Key	■		
NC002860	Battery Charger Adapter	■		
SPK-FMG-149	Carrying Case	■		
NC002845	Soft Case Fanny Pack	●		

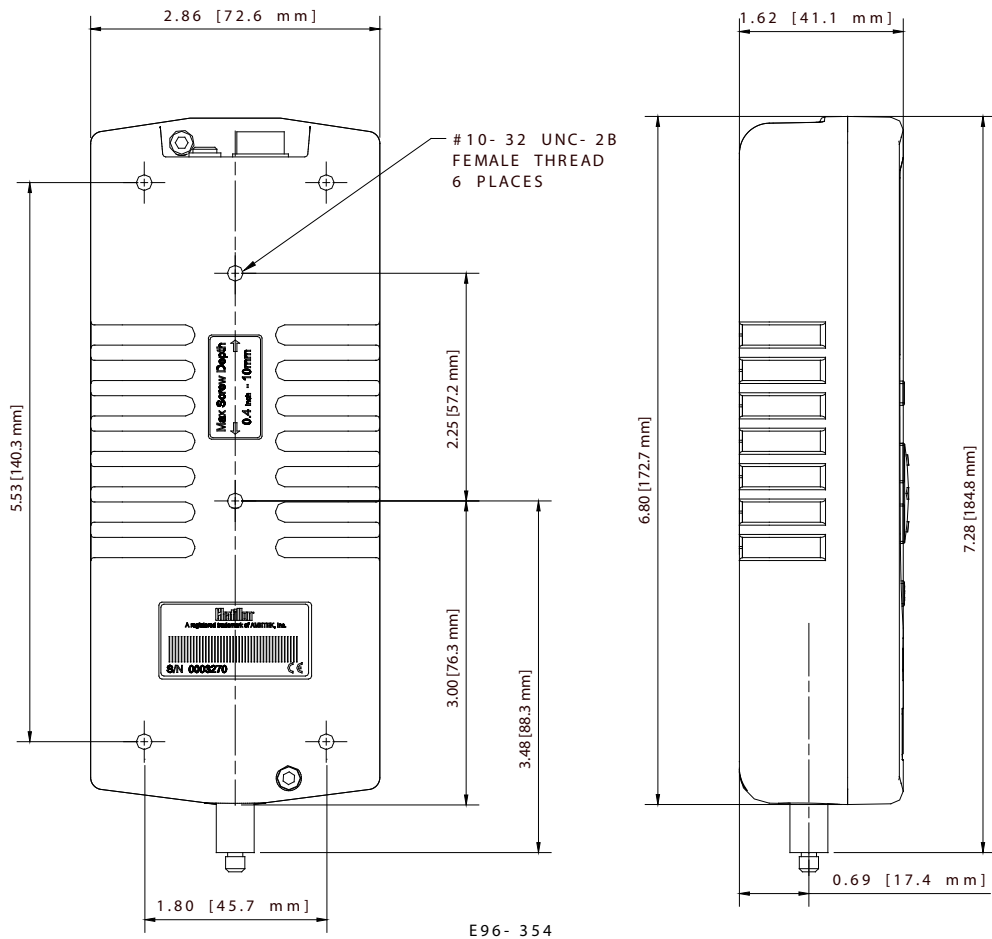
Standard Accessory = ■

Optional Accessory = ●



Shown: MSCK-TRAVEL kit. Separate carrying case for medical evaluation accessories. No cutout for digital dynamometer.

Dimensions



Specifications

Accuracy: $\pm 0.1\%$ of full scale

Certification: Calibration with NIST Data, IEC/ISO17025 optional

Data Sampling Rate: 5000 Hz

Peak Capture Rate: 5000 Hz

Display Update Rate: 80 Hz

Tare Capacity: 10% full scale

Overload Protection: 150% full scale

Display Characteristics: High resolution, dot-matrix LCD, 8 lines, 40 characters, adjustable contrast, invert and "hide" capability

Automatic Shut Down: Configurable time. May be disabled.

Data Storage: 10 results

Outputs: RS-232, Mitutoyo (Digimatic) and +2Vdc analog

Power: Battery or direct AC operation. Universal Power 110V/230V, Rechargeable Nickel Metal Hydride (supplied), International Universal AC Adapter

Battery Life: Approximately 30 hours, continuous use

Instrument Weight: 1.5 lbs (0.7 kg)

Operating Temperature: 40° to 100°F (4° to 38°C)

Warranty: 2 year

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