DANIELS MANUFACTURING CORPORATION

MPT-250C Wire Crimp Pull Tester



The **MPT-250C** is a Motorized Tensile Wire Crimp Pull Tester used to test a crimp contact's or terminal's tensile strength. The unit has a range of 2.5 lbf to 250 lbf and a full color LCD touchscreen interface. Includes data capture capability for exporting test data to a PC via USB or RS-232. *The MPT-250C meets UL, ISO, SAE, MIL, and ASTM tensile test requirements.*

Features and Specifications

- 2 Test Types: "Pull to Fail" and "Force Hold"
- Data Capture (measures continuous and peak force values)
- Compact / High Stability Profile
- Intuitive Full Color Touchscreen LCD User Interface
- Easy Setup, Operation, and Grip Change
- Force Measurement Range: 2.5 250.0 lbf (113kgf or 1112.0N)
- Force Measurement Resolution: 0.1 (lbf, kgf, N)
- Force Measurement Accuracy: +/- 0.5% Full Scale
- Force Readout in (lbf, kgf, N)
- Safe Force Overload: 150% of Full Scale
- Pull Rate Speeds: 1 to 10 inches per minute (inch / min)
- Pull Rate / Speed Accuracy: 1-5 +/- 0.125 inch/min, 6-10 +/- 0.250 inch/min
- Accomodates Most 10 AWG 26 AWG Wire
- Communication Ports: Serial RS-232 (DB9 female connector), USB 2.0
- Power Requirements: IEC Connector, 100 240VAC, 50/60Hz, 25 Watts maximum
- External Fuse Type and Rating: Type 3AG (6.3 X 32mm) 1A time delay, 250VAC

Standard Accessories

- Self-Tightening Cam-Type (Contact) Grip (P/N 15-3202C)
- Heavy-Duty Swivel Lockdown Upper Grip (P/N 15-3046)
- Custom Fit, Foam Lined, Hard Shell Shipping / Travel Case

Optional Accessories

- Ring Terminal Grip (P/N 15-0066C)
- Miniature Contacts Grip (P/N 15-3314)
- Slotted Terminal Grip (P/N 15-3087C)
- Safe-T-Cable Grip Set (P/N 15-3318)
- Customized Grips are available for specific applications

Physical

- Weight 23.64 lbs (less options)
- Shipping Weight \approx 40.6 lbs (with typical / standard grips)
- Case Weight 16.12 lbs
- Base Dimensions: 13.3" Wide x 6" High x 11" Deep

Calibration

- New units are supplied with a "Certificate of Calibration"
- Factory Calibration available

MINIMUM TENSILE STRENGTH REQUIREMENT*

CONDUCTOR SIZE AWG (REFERENCE)	UL 486A TEST VALUES (COMMERCIAL STANDARD)		TYPICAL MIL-SPEC (AS22520, AS7928, ETC)		
AWG	Pounds	Newtons	Pounds	Newtons	
26	3	13.4	7	31.2	
24	5	22.3	10	44.5	
22	8	35.6	15	66.8	
20	13	57.9	19	84.6	
18	20	89.0	38	169.1	
16	30	133.5	50	222.5	
14	50	222.5	70	311.5	
12	70	311.5	110	489.5	
10	80	356.0	150	667.5	

*Consult DMC for specific information on tensile strength standards.

MPT-250C STANDARD AND OPTIONAL GRIPS



15-3202C Cam Grip Standard Contact Grip Terminal Lugs, Machined Contacts



15-3046 Standard Wire Pull Grip Heavy-Duty Swivel Lockdown Upper Grip



15-3318 Safe-T-Cable Pull and Grip Set Optional Self-aligning Hole Guides .022, .032, & .040 Safe-T-Cable.



15-0066C Post Grip Optional Contact Grip Ring Terminals



15-3087C Slotted Wheel Grip Optional Contact Grip Terminal Lugs, Machined Contacts



15-3314 Mini-Vise Grip Optional Contact Grip Miniature Contacts



MPT-VF Weight Hanger for Verification Only Optional Accessory Verification Fixture

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HPT-200 PORTABLE TENSILE TESTER DEC DANIELS CORPORATION

Tensile Testing Breaks Out Of The Lab...



Alphatron, by DMC, introduces a new portable tensile tester capable of pull testing wire crimps up to 200 pounds (and size 10 AWG in most cases). The Alphatron HPT-200 is a complete system, contained in a protective carrying case with contoured pockets for the meter case, the hand-held test fixture, and the international battery charger.

It is only natural that the company, which is known throughout the world for quality wire termination tools and equipment would add the very best portable tensile tester to meet your need for fewer sources and improved support through a wider range of capabilities. The HPT-200 hand held pull tester combines the accuracy and rugged design of our other Alphatron pull testers into a portable battery powered unit. We follow that up with our expert factory service and calibration.

FEATURES:

- Built-in NIMH Battery, With Charger
- 14 Hours of Use on a Single Charge
- Portable. Lightweight & Ergonomic
- Low Stress Tensioning Mechanism
- Protective Carrying Case
- Verify Calibration Anytime
- Accuracy: ± (0.5% of Full Scale)
- Resolution: (0.1 Pounds.)
- Optional Display in Newtons or Kilograms
- International Power Adaptor

This lightweight self-contained tester extends your testing capability to the shop floor. You no longer have to wait for process samples to arrive in the QA Lab. Costly problems can be identified on the spot.

Durable construction and the convenient carrying case ensure protection, and the Low Stress Tensioning Mechanism makes the HPT-200 versatile and easy to use. The pull strength value is pre-set at the factory to display pounds, kilograms, or newtons. The calibration may be verified at any time during use by a simple R-Cal test.

The Power Management Circuit allows use during charging.

Specifications:

Height: 2 in. (5.08 cm) case Width: 9.5 in. (24.13 cm) case Depth: 6.25 in. (15.87 cm) case Weight: 2.5 lbs (1.21 kg) case and hand unit Capacity: 200LBF 90.7 kg 889N Accuracy: ± .5% of full scale Resolution: .1 lbf Display: LCD w/.56" high digits Display Type: Digital display w/peak hold reading Electrical: 12 VDC Int. Battery Operating Temperature: 50°F to 100°F (10°C to 38°C)



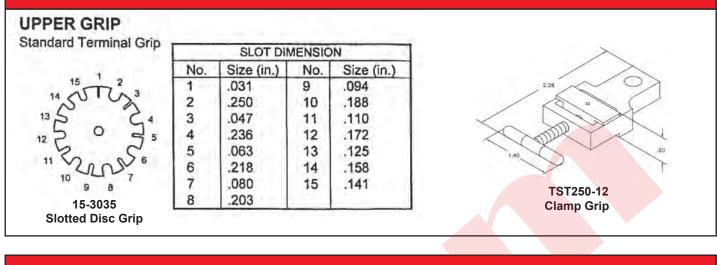
Protective Carrying Case: Part No. HPT-200 Includes Protective Carrying Case and International Battery Charger

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0212 482 83 83

HPT-200 PORTABLE TENSILE TESTER

HPT-200 STANDARD GRIPS







Minimum Tensile Strength Requirements					
Wire Size (AWG)	Per AS7928 (lbs.)	Per UL 486 (lbs.)			
26	7	-			
24	10	-			
22	15	8			
20	19	13			
18	38	20			
16	50	30			
14	70	50			
12	110	70			
10	150	80			

PT-150H WIRE CRIMP PULL TESTER



Now available from DMC is the PT-150H Electronic Manual Tensile Test System which may be used in conjunction with SPC Programs or other Quality Control disciplines in both OEM and maintenance applications. The electronic digital readout display is a fast and reliable source of test data.

The operation of the equipment is simple yet versatile, and DMC will customize the gripping jaws or other components to make test sample installation and removal an easy task.

STANDARD FEATURES

- Capacity: 150 lb, 667 N, 68 Kg
 Display units factory set for pounds,
- Display units factory set for pounds newtons or killograms
- Resolution: 0.1 lb
- Accuracy: ± 0.5 % of full scale
- Digital Display with Peak Hold
- Backlit LCD Display with 0.56" High Digits
- Self-Tightening Grip
- 15 Position Slotted Terminal Grip
- Lever Arm Pull Mechanism

ACCESSORY GRIPS (Optional)

- Ring Terminal Grip (P/N 15-0066)
- Self-Tightening Grip (P/N 15-3202)
- Right Angle Terminal Grip (P/N 15-3042

PHYSICAL

- Weight 15.2 Lbs. (Shipping Weight 21 Lbs.)
- Stand Dimensions: H. 5", W. 8.5", D. 16"

CALIBRATION

- New units supplied with certificate of calibration traceable to NIST
- Factory calibration available
- In order to maintain NIST traceability, Do Not Exceed 12 Months Between Calibrations

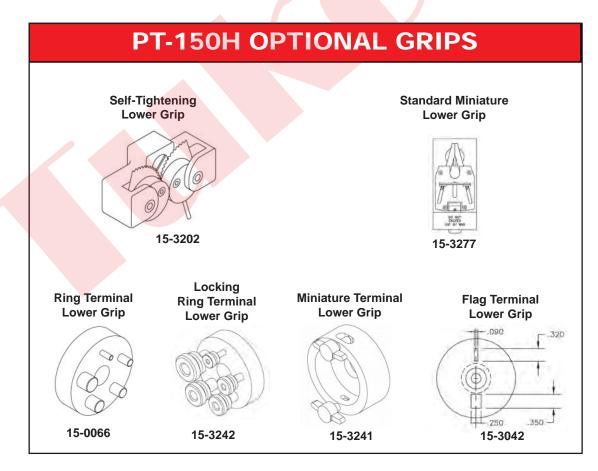
OPTIONAL FEATURES

• 230 VAC 50/60 Hz Power (P/N 15-7004)

PT-150H WIRE CRIMP PULL TESTER

PT-150H STANDARD GRIPS						
Self-Tightening Wire Grip	3087	87 inal Grip				
15-3202	1	SLOT DIN .031" .250"	/ENS 9 10	ION .094" .188"		
	2 3 4	.047"	11	.110"		
	5	.236" .063"		.172" .125"		
	6 7	.218" .080"	14 15	.158" .141"		
	8	.203"	15	. 141		

Minimum Tensile Strength Requirements					
Wire Size (AWG)	AS7928 (lbs.)	UL 486 (lbs.)			
26	7	-			
24	10	-			
22	15	8			
20	19	13			
18	38	20			
16	50	30			
14	70	50			
12	110	70			
10	150	80			
8	225	90			
6	300	100			
4	400	140			



Custom Grips Available. Consult DMC for details.

PT-40XP Small Gage Wire Crimp Pull Tester





Now available from DMC, the portable **PT-40XP** Electronic Manual Tensile Test System is specially designed to test the lower range tensile values from **0.1 to 40 lbs.** The PT-40XP may be used in conjunction with SPC Programs or other Quality Control disciplines in both OEM and maintenance applications. The electronic digital readout display is a fast and reliable source of test data.

The operation of the equipment is simple yet versatile, and the selftightening Wedge-Grip and Cam-Grip assemblies hold a wide variety of wire and terminations. **Both grips are included with the unit.** This unit easily accommodates short wire leads. (.75" minimum length test sample.) DMC will customize the gripping jaws or other components to make test sample installation and removal an easy task.

STANDARD FEATURES

- Capacity: 40 lb, 170 N
- Display units factory set for pounds or newtons
- Resolution: 0.1 lb / 0.1 N
- Accuracy: ± 0.5 % of full scale
- · Digital Display with Peak Hold
- Backlit LCD Display with 0.56" High Digits
- Self-Tightening Wedge-Grip and Cam-Grip Assemblies
- Simple Screw Pull Mechanism

POWER SPECS

- Built-in NIMH Battery, With Charger
- 14 Hours of Use on a Single Charge
- Power Management Circuit allows use during charging

PHYSICAL

- Weight 5.7 lbs.
- Dimensions: Height: 5.9", Width: 11.75", Depth 5.8"

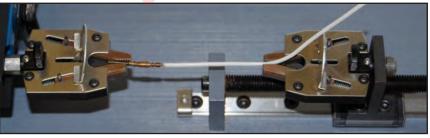
CALIBRATION

- Verify Calibration Anytime
- New units supplied with certificate of calibration traceable to NIST
- Factory calibration available
- In order to maintain NIST traceability, Do Not Exceed 12 Months Between Factory Calibrations

ALTERNATE VOLTAGE

 230 VAC 50/60 Hz Power version is available, P/N: PT-40XP-230

Standard Terminal & Wire Grips



Wedge-Grip Assembly



Cam-Grip Assembly

Custom Grips are Available. Consult DMC for details.