



# Computerized Function Tester for Heavy Duty Starters

# SMFT-2

## Features:

- The SMFT-2 is a unique tester designed to automatically check heavy duty starter functions including: solenoid pull in, free spin RPM coast down time, starter sound & vibration and optional pinion size.
- Test results include: motor current, solenoid current, starter pinion speed, solenoid voltage drop, vibration & sound with averaging and order analysis, free run coast down time and motor leakage current.
- Work instructions for the operator include step by step machine setup instructions with text and pictures or video, instructions can be localized for any language.
- For fast cycle time the tester uses automatic connections.
- A special fork is used to perform the "Block" test, in this test step the fork is placed in the starter pinion's engagement path it is used to verify that the pinion has moved to the engaged position. An optional feature can measure the pinion engagement force.
- An optional laser sensor can measure the pinion's gear profile, tooth size, internal & external diameter.
- Statistical data is saved for retrieval with a unique serial number.
- Calibration, Verification and Self Diagnostic software are also included.
- The SMFT-2 uses the D&V X-1 Measuring Platform this platform offers password protection of administrative functions, custom test procedures via scripting capabilities and optional printed reports and labels.



## Technical Data & Measured Parameters:

**Starter Free Run Current up to 200 Amps peak**  
**Free Run Speed** 0 to 12000 Rpm  
**Solenoid Pull-In Current up to 150 Amps peak**  
**Solenoid Hold-In Current up to 150 Amps peak**  
**Solenoid Contact Voltage Drop** 0 to 2.5 Volts

**Solenoid Pull-In Voltage** 0 to 24 (32 optional) Volts  
**Solenoid Hold-In Voltage** 0 to 24 (32 optional) Volts  
**Shipping Weight** 1158lbs. 525kg  
**Shipping Dimensions:** 77x 48 x 82 inches

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