



- Fast testing with auto connect tooling for reducing the cycle time
- Small footprint for easy integration in production line
- Reject label & report printing capability
- Ready for Start-Stop and Change-of-Mind Starters

The ST120 is a high speed, high accuracy, robust end-of-line tester for testing starter motor assemblies. This PC based machine is designed with all the necessary requirements to fulfill high speed tool-less change over for End-Of-Line production testing:

Features

- The most advanced combination of hardware and software for automotive starter testing. Fully automated positioning, clamping and connections for high volume applications at the touch of a button
- Advanced status and high accuracy of performance, free run speed, solenoid block and coast down (stop) tests
- Load test conditions can include speed, torque and current
- Scripting of test procedure provides complete control of test process
- Easy material management via reject acknowledgement, rejects bin input and marking device output with pass/fail label and report generation
- Quick tool-less gear exchange allows changes in less than one minute
- Poke Yoke (mistake proof) tooling recognition system eliminates setup errors
- Programmable installation and setup instructions
- Ergonomically designed, operator friendly, able to load and unload the starter with ease
- Measures more than 40 different starter parameters including performance curve, free run current and speed, solenoid current, contact voltage drop, "R" terminal function, coast down time, magnetic seal, pull-in & hold-in voltage/current, solenoid pull-in and release time
- User configurable Labels, Pass and Fail reports with performance curve plotting torque, power, speed, and voltage
- Computer controlled programmable 1600 Amp starter power, simulating 200 - 2000 CCA battery (0 - 30 milliohms)
- Computer controlled 120 Amp programmable solenoid power supply, solenoid pull-in can be tested at a programmable reduced voltage during the test to insure operation under worst case conditions

- Tests starter, solenoid, drive, and spring engage, disengage timing and optional pinion movement/retract test that can reveal faulty components or assembly errors
- Built-in oscilloscope for all measured channels
- Precise waveform analysis which can detect armature, commutator and brush problems
- Optional programmable solenoid "aging" function to seat the solenoid contacts
- Optional sound and vibration measurement available
- Can scan a full performance curve in 5 seconds which increases the accuracy by decreasing test result variation caused by temperature change
- Supplied with flat touch screen color LCD monitor
- Available in many working voltages (220 to 480V at 50/60 Hz)



ST-120 Machine Status Screens

Technical Data Measured Parameters	
Starter Current	up to 1500 Amps
Starter Voltage	12 & 24 Volts (32V optional)
Starter Speed	0-20,000 RPM
Starter Torque	up to 100Nm
Solenoid Current	up to 120 Amps
Contact Voltage Drop	0-2.5 Volts
Starter Efficiency	0-100%
Starter Output Power	up to 5 kW
Starter Input Power	up to 10 kW
Ripple Current	0-200 Amps

