

TB1 servo solutions

THE BOX ONE SERVO MOTOR FEEDBACK TESTER.
ADVANCED STANDALONE SERVO DIAGNOSTICS.
NO PC REQUIRED. NO RECURRING FEES.



Own Your Test Equipment

Stop paying endless subscription fees for motor testing.

For years, expanding a shop's repair capacity meant buying clunky, PC-dependent setups and bleeding budget on time-based software models.

Engineered by industry experts, the TB1 eliminates the bottleneck. It's a fully independent diagnostic hub built to get motors tested, aligned, and out the door without the software overhead.

The Hardware Advantage

- **Touchscreen Control Center:** The TB1 handles all diagnostics through the built-in touchscreen. You never have to hook it up to a computer or tie up your laptop.
- **No Expensive Adapters:** Test a massive array of feedback devices from day one. The TB1 connects directly. No proprietary hardware adapters are needed.
- **Run Motors Easily:** Pair the TB1 with a standard servo amplifier and a VARIAC transformer to create a complete test stand. You control the speed directly from the touchscreen, eliminating the need to wire up an external pot.
- **Integrated Jog Feature:** Easily set an automatic back-and-forth cycle between two points. This continuous motion is perfect for testing the in-and-out travel of linear actuators and the forward/reverse rotation of motors without having to continuously press buttons or manually adjust a knob.
- **Simple Multimedia Card Updates:** The TB1 unit itself never needs to connect to your shop's Wi-Fi or network. When we release software updates or add support for new encoders, simply download the files to a standard media card and plug it directly into the tester.
- **Faster Workflow:** The interface is instantly familiar to veteran technicians but significantly faster and easier to navigate than legacy software.

For Plant Maintenance: Stop Guessing

The TB1 is also a useful tool for the plant floor. Test spares right off the shelf to verify they are fully functional before you mount them. If a machine goes down, hook up the motor to the TB1 to see if the feedback is the problem. This stops you from shipping out perfectly good motors for unnecessary repairs.

Alignment & Diagnostics

Whether you're checking to see if an encoder or resolver is aligned correctly or realigning it from scratch, the TB1 gives you a steady, reliable angle. You get a clear reading of exactly where the encoder is aligned so you can be 100% sure the motor is right before it leaves your bench.

- **Check the Commutation:** Lock the motor up and see the electrical angle instantly. It is the most direct way to check the alignment before you bother pulling a motor apart. Whether you are at a repair bench or on the plant floor, you need to know if you actually have a commutation issue or if the motor is perfectly healthy.
- **Serial Alignment:** The TB1 is able to align Stegmann and Heidenhain encoders so you can get the job done without wrestling with OEM software.
- **Diagnostic Testing:** The TB1 has extensive testing capabilities for incremental encoders. You can check the counts, verify the phasing, and monitor line levels directly on the screen to ensure the encoder is working correctly.
- **Plain-Text Error Codes:** If a feedback device is failing, the TB1 tells you exactly why. Instead of just throwing a numeric code, it translates faults into clear, plain-text error messages right on the screen, helping you identify the issue quickly and accurately.

Extensive Built-In Support

The TB1 reads the industry standards out of the box, including direct bench testing for Hiperface DSL and the ability to read the internal data to verify OEM label info.

- **Generic Incremental Encoders & Resolvers**
- **Stegmann** (Generic, Allen-Bradley, and Rexroth data profiles)
 - ◇ SRS, SRM, SKS, SKM, EKS, EKM
- **Heidenhain**
 - ◇ ECN1313, EQN1325, ECN1113, EQN1125, EQN1135, EBI1135, EQI1331, ERN1387, ERN1381, ECN1325, EQN1337, ECN1123, EQI1329



Own your equipment. Control your turnaround.

Whether you are an independent repair shop or an industrial plant, the TB1 gives you control over your diagnostics. Get accurate results, speed up your turnaround, and own your equipment outright.

239 W. 61ST STREET, WESTMONT, IL 60559
Ph (630)-963-5400 Fax (630)-963-9160
INFO@SERVOSOLUTIONS.COM
WWW.SERVOSOLUTIONS.COM


servosolutions