



TB-1900S

Heavy Duty Industrial Starter Test Bench

STARTER TEST BENCH



Model	Application	Unit Weight	Unit Size (W x D x H)
TB-1900S	Starter Test Bench	Approx. 400.0 kg	1020 x 950 x 1670 mm

Product Specification Manual

Description

Heavy Duty Industrial Starter Test Bench.

Features

The Test Bench has four major sections:

1. Forward Control Panel

Mounted on the front of the traverse slide, the forward panel is ergonomically designed to ensure operator safety and ease of operation. Two separate starter operating push buttons are mounted on this panel and have to be pushed together. The safety feature keeps both hands safe and away from meshing pinions.

2. Control Panel Top and Lower RH Side

Digital meter displays, meter control and selection switches.

3. Control Panel Lower LH Side and Centre

Battery voltage selection switching bridge, battery warning light and output terminals.

4. Transverse Slide and Input Gear

Simple design allows the starter to be quickly mounted and aligned with the input machine spindle and gear. Feed screw allows easy and accurate gear alignment.

- **Battery Isolation Solenoid Switch:** Main battery is isolated by heavy duty solenoids which are activated by a single rocker switch mounted on the front console.
- **Battery Isolation Light:** Indicates battery supply is connected and ready for testing.
- **Construction:** The rigid, ergonomically designed, free standing Test Bench frame is constructed to allow perfect alignment and rigidity of the starter with reduced vibration while under test.
- **Battery Voltage Selector Switch:** The three main voltages are 12 Volt, 24 Volt and "OTHER". By configuring batteries on "OTHER" to suit 6 Volt or 32 Volt allows testing of these units.



Physical and Dimensional Properties

Property	Unit	In Crate
Weight	Approx. 400.0 kg	442.0 kg
Width	1020 mm	1210 mm
Depth	950 mm	1220 mm
Height	1670 mm	1890 mm

Performance

- **Digital Volt Meter:** 0-200 Volts DC, 3 1/2 digit display. Accuracy 0.25% + 1 count. Size: 96 mm x 48 mm. Two terminals are provided for connecting the volt meter test leads.
- **Digital Ammeter:** 0-2000 Amps DC, 3 1/2 digit display. Accuracy 0.25% FS + 1 count. Size: 96 mm x 48 mm. Ammeter is used to indicate current being delivered by the starter under test.
- **Digital Tachometer:** 0-20,000 RPM forward and reverse, 3 1/2 digit display. Accuracy +/- 10 RPM. Size: 96 mm x 48 mm. By simply setting gear ratio switches, the automatic calculation circuit gives direct starter motor speed.
- **Digital Load - Torque Meter:** Ft Lb or Nm, 3 1/2 digit display. Accuracy +/- 4 Nm or 5.5 Ft Lbs. Size: 96 mm x 48 mm. Range 0 to +/- 200 Nm or 0 to +/- 271 Ft Lbs. Starter motors under test give direct imperial or metric torque readings.
- **Starter Gears:** Manufactured from high quality high carbon steel. Four gears are supplied as standard to cover the majority of applications: 33 tooth, 36 tooth, 39 tooth and 59 tooth. Other custom gears to suit individual requirements are available on request.

Uses

- Suitable for Automotive, Marine, Defence, Councils and TAFE.

Documentation

Document	Reference
Bar Code Number	9346080001089
Product Specification Manual	PS 84
Work Instruction Manual	WI 84
Product Costing Manual	PC 84

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