



Foot Compression Test Stand

Model Number: TF-78051-600



INTRODUCTION

The Model TF-78051-600 Foot Compression Test Stand is a complete, automated test fixture for performing the foot sole inspection tests outlined in the Hybrid III 5th Percentile Small Female and Hybrid III 95th Percentile Large Male SAE User's Manuals and the Hybrid III 50th Percentile Male SAE and NHTSA PADI (April 1997) User's Manual.

DESCRIPTION

When the sole of the Hybrid III dummy's foot is compressed by applying a load through the ankle, certain defined compression stiffness characteristics should be met.

The foot with heel pad and ankle is attached to the ankle bracket adapter and leveled on the fixture's flat metal surface plate. A downward force is applied through the ankle ball by the motorized screw assembly at a controlled rate.

The Foot Compression Test Stand supplies the customer's Data Acquisition System with analog outputs for force and displacement.

Dimensions	Fixture	Work Area
Length	2.3 ft	5.0 ft
Width	2.3 ft	3.0 ft
Height	4.9 ft	—

STANDARD EQUIPMENT

The complete stand includes all equipment, including sensors, required to perform the Hybrid III Foot Compression Test.

- Linear Drive Mechanism with 3-inch stroke and 500 lb. capacity
- Linear Potentiometer for Deflection Measurement
- Digital Controller with keypad and LCD display
- User configurable software
- Analog outputs available from the controller for data collection from external DAS source
- Power requirements: 100 - 240 VAC, 50 - 60 HZ

OPTIONAL EQUIPMENT

An optional ASA software package for use with a personal computer allows the user to store digital test data. The stored data can be exported to Excel or a similar software package.