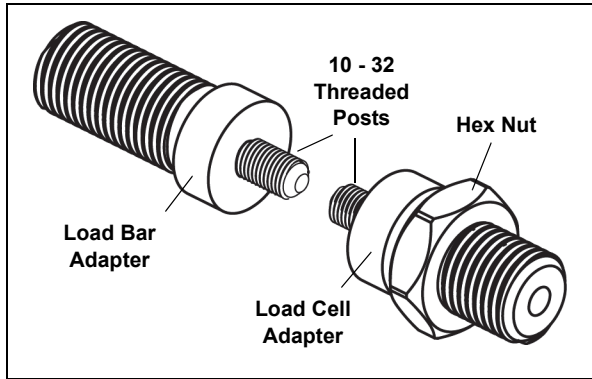


Materials 10-32 Adapter

ME-8246

For Use with the Materials Testing Machine (ME-8236)



Included Items
Materials 10 - 32 Adapter
Hex Nut, M12 6 mm thick

Recommended Items*
Materials Testing System (ME-8230)
Materials Testing System Accessories*
PASCO Data Collection System*

*See the PASCO catalog or web site at WWW.PASCO.COM

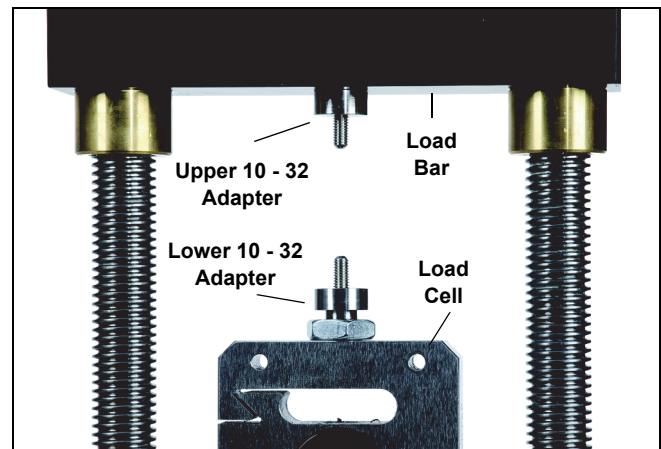
Introduction

The Materials 10 - 32 Adapter is designed to work with the PASCO Materials Testing Machine (ME-8236), part of the Comprehensive Materials Testing System (ME-8244). The Materials Testing Machine is a device for measuring force and displacement for various materials as the materials are stretched, compressed, sheared, or bent. The Materials Testing Machine has a built-in load cell (strain gauge transducer) capable of measuring up to 7100 newtons (N) of force (1600 pounds), and an optical encoder module that measures displacement of the load bar. Force data from the load cell and displacement data from the encoder module can be recorded, displayed, and analyzed through a PASCO Interface with PASCO Data Collection Software. The sensor cable from the Materials Testing Machine connects to a PASPORT interface such as the PS-2100A USB Link.

Materials 10 - 32 Adapter (ME-8246)

There are several devices used in material testing that hold materials in place and have a threaded 10 - 32 hole designed for mounting the device on a materials tester, such as the Materials Testing System. The Materials 10 - 32 Adapter is designed to connect devices with a threaded 10 - 32 hole to the Load Bar and Load Cell of the Materials Testing Machine.

The 10 - 32 Adapter with the longer larger diameter threaded section is mounted in the Load Bar of the Materials Testing Machine, and the 10 - 32 Adapter with the shorter threaded section and the hex nut is mounted in the top of the Load Cell.



Setup

Put the longer threaded end of the upper Materials 10 - 32 Adapter up through the hole in the Load Bar and use the Load Bar Sample Nut to secure the adapter in place. Screw the larger diameter threaded end of the lower Materials 10-32 Adapter into the top of the Load Cell.

Mount the optional materials holding device (not included) onto the 10 - 32 threaded posts of the adapters. Position the sample to be tested in the materials holding device.

Alternately, it may be easier to screw the optional material holding device onto the 10 - 32 threaded posts of the adapters, and then mount the adapters to the Load Bar and the Load Cell of the Materials Testing Machine.

Experiment Guide

NOTE: An Experiment Guide in electronic format for the Materials Testing System is available to download from www.pasco.com.

Enter “Materials Testing System” in the Search window and look for the down-loadable file(s) under “User Resources”.

Other Equipment

Other accessories are available separately for the Material Testing Machine. Please see the PASCO web site at www.pasco.com for more information.

Technical Support

For assistance with any PASCO product, contact PASCO at:

Address: PASCO scientific
10101 Foothills Blvd.
Roseville, CA 95747-7100

Phone: +1 916-462-8384 (worldwide)
800-373-0300 (U.S.)

E-mail: support@pasco.com

Web www.pasco.com

For the latest information about the Materials 10 - 32 Adapter, the Materials Testing System, or the replacement items and accessories, go to the PASCO web site at www.pasco.com and enter the model number or the model name in the search window.

Limited Warranty For a description of the product warranty, see the PASCO catalog. **Copyright** The PASCO scientific *Instruction Sheet* is copyrighted with all rights reserved. Permission is granted to non-profit educational institutions for reproduction of any part of this manual, providing the reproductions are used only in their laboratories and classrooms, and are not sold for profit. Reproduction under any other circumstances, without the written consent of PASCO scientific, is prohibited. **Trademarks** PASCO, PASCO Capstone, PASPORT, SPARK Science Learning System, SPARK SLS, and SPARKvue are trademarks or registered trademarks of PASCO SCIENTIFIC, in the United States and/or in other countries. For more information visit www.pasco.com/legal.