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Measure Improve Service



# QC-3A - UNIVERSAL MATERIALS TENSILE TESTER


Thwing-Albert's QC tensile testers have provided quality solutions and have earned a well-deserved reputation as an easy-to-use, dependable testing platform. The QC-3A upholds the standards of the QC line while adding the functionality of a RS-232 interface, a digital load controller and enhanced software.
Ideal for tensile, compression, coefficient of friction and peel analysis, the QC-3A is an extremely flexible, costeffective testing system. The single screw frame provides up to 5 kN tensile force with extremely accu-rate control throughout the entire load range. The digital load controller ensures extremely accurate, reliable test data.

## Computer interface

The QC-3A has a serial port that enables test data to be automatically downloaded to a PC for databasing and graphing purposes.

## Powerful Software

The software maintains the functionality of previous version with several enhancements. The software allows you to set distance and load traps when testing in the tensile or compression modes. Other advantages include the ability to pre-load a sample and set dual speeds, one for pre-test and one for test.

## Features

- Menu-driven software
- RS-232 PC interface
- Distance & load traps
- Digital load controller
- Fixed and variable crosshead speeds
- Pretest speed to selectable force
- Load cell unit conversions
- Statistical analysis : standard deviation, average, high and low readings
- On-screen HELP
- Includes software for TEA, COF and Peel testing

## Simple Versatility Allows Efficient Testing

The QC-3A retains the one element that has made the QC line so popular - simplicity. Its user-friendly design lets you concentrate on the test, not on operating the instrument.
Select preset and user-adjustable crosshead speeds in a few quick steps. A clear 2-line display provides setup, status and result data. Controls are designed for maximum flexibility with uncluttered convenience.

## Highly Durable Testing Platforms

The rigid chassis of this instrument has a proven record of reliability in rigorous use. The single-screw QC-3A provides up to 1000 pounds (5000 newtons) tensile force with extremely sensitive control for light and medium-force applications.

## Technical specifications

**Drive mechanism**
Single machine screw

**Testing area**
Tension above moving crosshead

**Crosshead guidance**
Independent stainless steel guide rots

**Crosshead speed**
2.54 to 508 mm/min

**Horizontal clearance**
34 cm

**Load capacity**
5 kN

**Load measurement**
Load cells interchangeable from 10 N to 5 kN

**Load accuracy**
10 to 100 % load capacity : ± 0.25 % absolute value
Less then 10 % load cap. : ± 0.025 % of load cell capacity

**Safety features**
Emergency stop button, upper & lower limit switches with over-travel protection and load cell overload protection

**Power requirements**
110 V, 50/60 Hz - 220/230 V, 50 Hz - 240 V, 50 Hz

## Physical specifications

**Dimensions (W x D x H)**
1265-2010 - 56 x 40.7 x 112 cm
1265-2011 - 56 x 40.7 x 155 cm
1265-2013 - 56 x 40.7 x 135 cm

**Net weight**
1265-2010 - 82 kg
1265-2011 - 91 kg
1265-2013 - 86.2 kg

**Crosshead travel**
25.4 x 45.7 cm excluding grips and fixtures

**Display**
2 line x 40 character vacuum fluorescent digital display

## Options

**A wide selection of grips & fixtures**
Specialised grips enable you to test paper, plastics, textiles, fibers and foils fixtures permit compression, flexural rigidity, peel, friction and other tests

**A wide range of precision load cells**
20, 50, 100, 200, 500, 1000, 2000, 5000 N

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