

# EJA VANTAGE™

## Universal Materials Tensile Tester

Thwing-Albert's EJA Vantage™ offers the latest design in universal materials tensile testers.

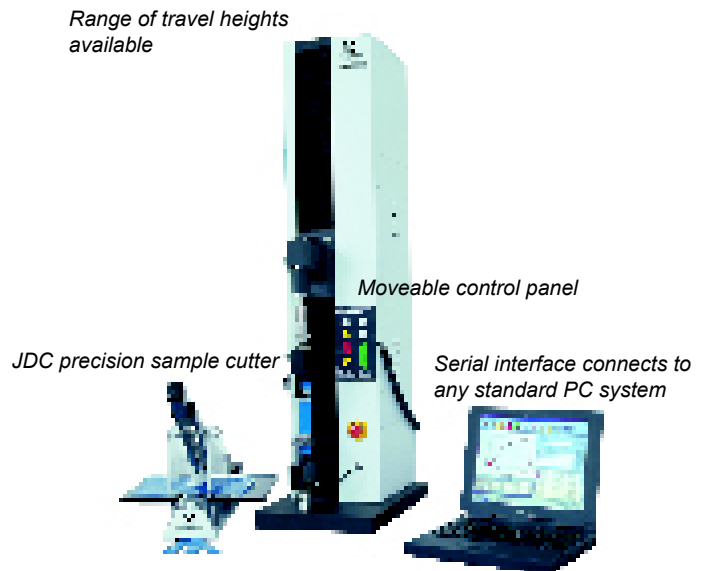
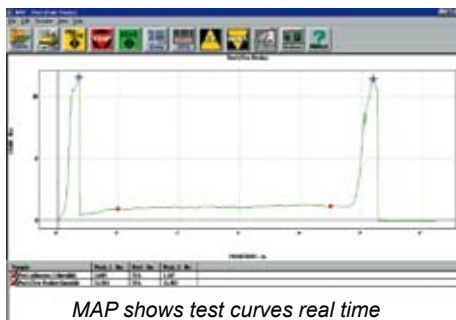
A single screw design, EJA Vantage™ is the smallest, most precise tester available. It is capable of exerting up to 2 kN of compression/tension force. The unit is available in three different size frames.

This instrument is ideal for measuring the physical characteristics of a wide range of materials such as paper, film, non-wovens, adhesives, textile, packaging and biomedical.

A wide variety of fixtures provide extensive test capabilities including tensile, peel, compression, tear, cycling, stress relaxation, insertion/extraction and more.

A magnetic test control keypad is easily positioned to provide convenient access for the operator. Other benefits include one-touch auto zero, electronic air switches for air-grip control and a software-based automatic calibration system.

Two windows-based software packages are available that offer varying levels of test control. EJA Simplicity software provides the ability to do basic testing, data storage and analysis. MAP software is much more powerful with advanced features for database management and custom test configuration capabilities.



### Features

- One serial interface to a PC
- No PC interface cards required
- Serial load cell interface
- Digital motion controller utilising pulse with modulation
- Automatic electronic calibration
- Electronic air switches
- Movable test control panel
- Easy installation
- Side electronics panel for easy access
- Push-button auto zero

*Cardboard, Non-wovens, Packaging, Paper, Plastics, Textile...*

## Physical specifications

Dimensions	(WxDxH) - excl. PC
1750-2000	25.5 x 42 x 80 cm
1750-2001	25.5 x 42 x 132 cm
1750-2002	25.5 x 42 x 163 cm

### Net weight

1750-2000	51 kg
1750-2001	59 kg
1750-2002	68 kg

### Crosshead travel - excl. grips & fixtures

1750-2000	61 cm
1750-2001	91.5 cm
1750-2002	114.5 cm

## Options

### • A wide selection of grips & fixtures :

manual and air-operated, compression plates, 90° peel, coefficient of friction, burst, puncture fixtures and custom applications.



### • A variety of high precision load cells :

5N, 10N, 25N, 50N, 100N, 250N, 500N, 1 kN, 2 kN

### • Two Windows®-based software packages :

- EJA Simplicity™ Software

for basic tension, compression and peel testing, data/curve storage and analysis.

- MAP™ Software

for defining complex motion control, enabling unlimited test methods. MAP automatically generates a realtime curve, performs statistical analysis and exports results to a database and user-defined configurations to meet exact requirements.



## Performance data

Crosshead guidance	Crosshead speed
Precision ball screw	1 to 1016 mm/min

Horizontal clearance	Depth clearance
Unlimited	89 mm

### Force capacity

2 kN

### Force measurement

Interchangeable load cells available (see options)

### Force accuracy

- 10 to 100 % load capacity :  $\pm 0.25$  % measuring value
- less then 10 % load capacity :  $\pm 0.025$  % of load cell capacity

### Force resolution

16 bit A/D to 0.001 N

### Position resolution

0.6  $\mu$ m (0.00002 inch)

### System control

PC-based with serial interface (no PC slave cards)

### Safety features

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

### Power requirements

110 V, 50/60 Hz - 220/230 V, 50 Hz - 240 V, 50 Hz

### Operating/storage environment

Air temperature : operating 10° to 50° C, storage -25° to 70°C

Relative humidity : operating 10 to 85 % (non-condensing), storage 5 to 90 % (non-condensing)

Agent