



Thwing-Albert Instrument Company

More than a Century of Testing Solutions

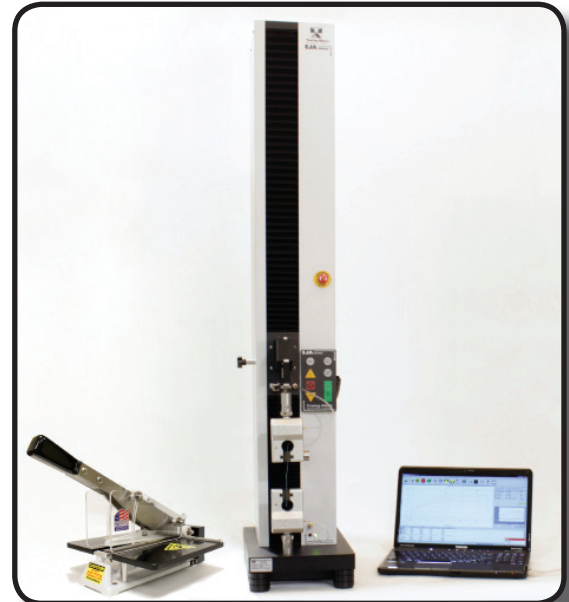
The Thwing-Albert EJA Vantage testing system provides maximum testing flexibility in a compact frame, only 250 mm (10 in) wide. Three low-profile frames are available providing capacities from 1 kN (225 lb) to 5 kN (1,000 lb) of tension/compression force. Both frames fully integrate system electronics and software controls eliminating the complications of interfacing with external control boxes or additional PC cards.

Small Footprint.

Large Test Capability.

- Measure **Tensile, Peel, Compression, Cycling, Tear, Burst, ZDT, Flex/Bend, Stress Relaxation and Insertion/Extraction, and more.**
- Ideal Industry Uses:
Paper, Nonwovens & Textiles, Film, Plastics & Rubber, Packaging Materials, Biomaterials, and Adhesives
- Automatic Electronic Calibration
- One-touch Auto Zero
- Electronic Air Switches
- One Serial Interface to a PC
- Serial Load Cell Interface
- User Positionable Test Control Panel
- Digital Motion Controller Utilizing Pulse Width Modulation
- Easy Installation
- Side Electronics Panel for Easy Access
- Configurations to meet most International Standards ASTM, TAPPI, ISO & DIN including:
ASTM E4
ISO 5893, 7500-1, 9283
EN 1002/1-4
- Manual and Air-Operated Grips
- Fixtures Available:
Compression plates, peel fixtures, coefficient of friction, burst, extensometer and puncture fixtures

Vantage Series Tensile Tester



Software Control.

The EJA Vantage is controlled via a serial interface connection between the tester and any standard PC or laptop. A magnetic test control keypad also provides convenient access to basic test functions.

There are two Windows®-based materials testing software packages available:

The **EJA Simplicity™ Software** provides the ability to perform tension, compression and peel tests, store test data and analyze results.

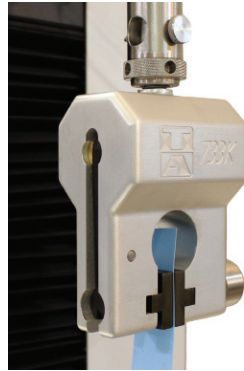
MAP-3™ Software provides powerful capabilities for defining complex motion control and enabling unlimited test methods. MAP automatically generates a real-time curve, performs statistical analysis and exports results to database management packages including Access™ and Excel™.





Load Cells

A variety of high precision load cells are available for compression and tensile testing needs. Available load cells range from 5 N (1.1 lb) to 5 kN (1000 lb).



Variety of Grips & Fixtures

A wide range of grips and fixtures enable the EJA Vantage to be configured to most International Standards including ASTM, TAPPI, ISO & DIN. Manual & air-operated grips, compression plates, peel fixtures, coefficient of friction, burst, extensometer and puncture fixtures provide endless test possibilities.

Physical Specifications

	Vantage (1750-2000)	Vantage (1750-2001)	Vantage (1750-2002)	Vantage (1752-2000)	Vantage (1752-2001)	Vantage (1752-2002)	Vantage (1755-2000)
Width:	254 mm (10 in)	254 mm (10 in)	254 mm (10 in)	254 mm (10 in)	254 mm (10 in)	254 mm (10 in)	254 mm (10 in)
Depth:	419 mm (16.5 in)	419 mm (16.5 in)	419 mm (16.5 in)	419 mm (16.5 in)	419 mm (16.5 in)	419 mm (16.5 in)	432 mm (17 in)
Height:	1067 mm (42 in)	1321 mm (52 in)	1626 mm (64 in)	1067 mm (42 in)	1321 mm (52 in)	1626 mm (64 in)	1346 mm (53 in)
Net Weight:	51 kg (112 lbs)	59 kg (130 lbs)	68 kg (150 lbs)	51 kg (112 lbs)	59 kg (130 lbs)	68 kg (150 lbs)	100 kg (220 lbs)
Crosshead Travel:	610 mm (24 in)	915 mm (36 in)	1200 mm (48 in)	610 mm (24 in)	915 mm (36 in)	1200 mm (48 in)	915 mm (36 in)

NOTE: 5 kN - 1219.2 mm (48 in) and 10kN - 609.6 mm (24 in) & 1219.2 mm (48 in) models available.

Performance Data

Force Capacity

1 kN (225 lbs)
2 kN (450 lbs)
5 kN (1000 lbs)

Force Measurement

Interchangeable load cells available (see above list)

Force Accuracy

10% to 100% Load Capacity: $\pm 0.25\%$ Measuring Value
Less than 10% Load Capacity: $\pm 0.025\%$ of Load Cell Capacity

Force Resolution

16 Bit A/D to 0,001 N

Position Resolution

0,6 μm (0.00002 inch)

Position Accuracy

$\pm 2.5 \mu\text{m}/25 \text{ mm}$ ($\pm 0.0001 \text{ inch}/1.0 \text{ inch}$)
or 0.01% of Distance

Crosshead Guidance

Precision Ball Screw

Horizontal Clearance

Unlimited

Depth Clearance

89 mm (3.5 in)

Specifications subject to change without notice.

System Control

PC-Based with serial interface (No PC slave cards)

Operating System

Windows® 98/NT/2000/XP

Crosshead Speed

1 to 1000 mm/min (0.05 to 40 in/min)

Crosshead Accuracy

0.1%

Safety Features

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

Power Requirements

110 VAC, 50/60 Hz / 220/230 VAC, 50 Hz / 240 VAC, 50 Hz

Operating/Storage Environment

Air Temperature: Operating: 10° to 50° C (50° to 122° F)
Storage: -25° to 70° C (-13° to 158° F)

Relative Humidity:

Operating: 10% to 85% (Non-Condensing)
Storage: 5% to 90% (Non-Condensing)

Thwing-Albert Instrument Company

14 W. Collings Avenue, West Berlin, NJ 08091

tel 856-767-1000 ■ fax 856-767-2615 ■ info@thwingalbert.com

www.thwingalbert.com



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