

See us on the WEB @  
<http://www.altekcompany.com>  
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**MODEL**  
**9221C2**

## AXIAL LOAD TEST STATION FOR FOOD/UTILITY AND BEVERAGE CANS

### FEATURES

- INDUSTRY STANDARD
- VERTICAL AND ANGULAR TESTING
- ADJUSTABLE GAP BETWEEN PLATENS
- DURABLE LOAD CELL DESIGN
- MICROPROCESSOR CONTROLLED
- DIGITAL DISPLAY OF RESULTS
- RS-232 COMMUNICATIONS CAPABILITY
- CHOICE OF FORCE RANGE
- MECHANICAL OVERLOAD PROTECTION
- AUXILIARY ANALOG OUTPUT (OPTIONAL)



LATEST MODEL MAY VARY SLIGHTLY FROM PHOTO

### DESCRIPTION

The MODEL 9221C2 Axial Load Test Station is used to determine the load carrying capacity of food/utility and beverage cans. The 9221C2 displays the peak force that is applied to a sample before it collapses or otherwise fails.

### OPERATION

An appropriate set of Change Parts, determined by the can type and size being tested and by whether the test is upright or angular, are installed on the unit. A sample is placed between the Change Parts and compressed until it fails. The peak force is registered on the digital display.

### SAFETY

The 9221C2 safety features include a pneumatic safety valve and load cell overload protection for safe, reliable operation.

## PRODUCT OVERVIEW

The 9221C2 Axial Load Test Station was designed to test the load carrying capacity of food/utility and beverage cans. The 9221C2 compresses a sample until it fails.

The 9221C2 can compress upright cans directly along their long axis, or it can compress cans mounted at an angle to simulate a shear force. In addition, the upper platen of the 9221C2 can be adjusted to accommodate samples of various heights.

The 9221C2 uses plant-supplied air to compress a sample between two platens and a load cell is used to determine the applied force. The test sequence is controlled by the 9221C2's built-in microprocessor, and the bright, front panel digital display indicates both the load applied during compression and the load at which the sample failed.

This unit provides switch-selectable options which are factory pre-set and customer alterable. These options include parameters such as digital display units. The 9221C2 provides RS-232 communications allowing test results to be sent to a PC or similar device and an optional auxiliary analog output can also be provided for connection to a device such as a recorder.

The 9221C2 should be fitted with an appropriate set of Change Parts in order to test each specific size and type of sample. These Change Parts are manufactured by the Altek company and are suggested for operation of the unit.

When the 9221C2 is ordered, the customer specifies the maximum force that will be applied to test samples. The unit will then be fitted with a properly sized load cell and the corresponding options will be set at the factory.

The 9221C2 has been carefully designed to provide years of safe, trouble-free operation.

## APPLICATION NOTES

The 9221C2 is a two-post unit used for most standard food/utility and beverage cans. The 9221C2 is identical to the older 9221B2 tester, with the exception that the 9221B2 does not have RS-232 communications capability.

## SPECIFICATIONS

The following document describes the specifications for this unit:

CDXM4401 - Specifications for the 9221C2

## CHANGE PARTS

This unit should be used with Change Parts. Please refer to the following documents for details regarding the Change Parts available for this unit:

CDLC08## - Advertising Flier

CDXC08## - Change Parts Specifications

## OPTIONS

Options specified when ordering the 9221C2 include the following:

Input Line Voltage

Digital Display Readout Units

Maximum Test Force

Platen Travel Rate

Serial Communication Settings

Analog Output

## ACCESSORIES

Accessories available for this unit include:

9819 - Calibration Cell

## TECHNICAL SUPPORT

Altek provides comprehensive technical support to its customers worldwide. For assistance, contact Altek and ask for the Engineering department.

## REPAIR

Altek customers can obtain a return authorization from Altek and ship a faulty unit in for repair, if necessary. In addition, replacement parts for all models are available from Altek.

## WARRANTY

All Altek products are built to the highest standards of quality and reliability. This Altek product is backed by a full 90-day warranty.

## FURTHER INFORMATION

See the accompanying fliers and specifications for additional information concerning this product. If these documents were not included with this flier, please call Altek; they will be mailed or faxed as quickly as possible.

## CUSTOM DESIGN

Altek can custom design inspection and test equipment to meet specific customer requirements. Custom Change Parts can also be designed and manufactured for most Altek products; contact Altek for further information.

For more information, contact Altek between 8:00 am and 5:00 pm ET, Monday thru Friday. The Altek company address and phone numbers can be found on the front of this flier.

## ORDERING INFORMATION

To purchase this product:

This flier is supplemented by additional literature, including specification sheets and Change Parts fliers and specifications.

The 9221C2 Axial Load Test Station should be used with Change Parts, which must be ordered separately; see the accompanying literature.

Accessories must also be ordered separately.

Options are specified when the unit is ordered.

The 9221C2 is ordered by requesting the 9221C2 Customer Order Guide from the Altek Sales Department. The Order Guide, which is filled out by the customer and returned to Altek, provides Altek with the information necessary to process an order for this unit.

*Thank you for your interest in TECH • products from Altek!*

CDXM4401.005

9221C2 SPECIFICATIONS

ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

MODEL: ..... 9221C2 AXIAL LOAD TESTER

CHANGE PARTS USED: ..... C08 (CDXC0801)

EFFECTIVE DATE: ..... JUNE 18, 1997

& DENOTES OPTIONS SPECIFIED BY CUSTOMER

\* DENOTES FIELD ALTERABLE OPTIONS INITIALLY SPECIFIED BY CUSTOMER

WEIGHT/DIMENSIONS: ..... 130# / 25"l x 18"w x 28"h

ENVIRONMENT:    Temperature ..... 50 - 105 degrees F  
                  Humidity ..... 80% max

ELECTRICAL:    Supply Connection ..... standard 3-prong grounded  
                  & Supply Voltage ..... {115, 230} vac  
                  Supply Frequency ..... 50/60 hz, single phase  
                  Supply Protection ..... 15 amp max  
                  Operating Current ..... 1 amp max

PNEUMATIC:     Supply Connection ..... male 1/8 npt fitting  
                  Supply Pressure ..... 150 psig max  
                  Supply Delivery ..... 1 cfm min  
                  Operating Pressure .... 30 psig (200, 500, 1000 lbs)  
  45 psig (2000 lbs)  
  60 psig (3000 lbs)

HYDRAULIC:     Cylinder Size ..... 8" bore, 1" stroke  
                  Reservoir Capacity .... 1 quart  
                  Oil ..... #10 hi-quality, non-detergent

OPERATION:     Mode switch ..... Test or Calibrate  
                  Calibration Adjust ..... Inside Panel Control  
                  Zero Adjust ..... Inside Panel Control  
                  \* Test ..... {manual or automatic}  
                  Platen Gap ..... 1" - 16" (adjustable)  
                  & Maximum Test Force .... {200, 500, 1000, 2000,  
  3000} lbs  
                  \* Platen Speed ..... 1" / min (adjustable)  
                  Platen Travel ..... 1"  
                  Sample Capacity ..... 612 dia x 1600 hgt  
  (6 12/16" dia, 16" hgt)

OUTPUT:        Display ..... 4 digit 0.560" red LED  
                  \*    Units ..... {lb, kg, n} - force  
                          Resolution ..... 1 lb, kg or n - force  
                  & Recorder Output ..... 0-1 vdc analog  
                  Auxilliary Output ..... 25 pin RS-232 serial  
                  \*    Communications ..... 9600, 8 bit, 1 stop, no parity