

Subsystems and Equipment for Specialized Testing Needs	
Grips and Fixtures:	A complete line of general and special purpose grips is available to meet the testing requirements of virtually any material. Test fixtures for flexure, coefficient of friction, peel and special tests are also available.
Environmental Testing:	Temperature chambers and furnaces are available to provide precisely controlled high and low temperature testing in air, vacuum or other inert atmospheres.
Load Cells:	A broad line of load cells (2518 Series) is available for tension and compression testing, providing measurements in S.I, English or metric units. All are tension, compression and overload protected, as well as self-identifying.
Extensometry:	A range of extensometers is available for direct measurement of specimen strain on a variety of materials.
Rheometry:	A capillary rheometer accessory is available to evaluate flow behavior of complex fluids and polymer melts.
Data Readout:	Several systems for data readout, data analysis, and test control are available ranging from simple digital display to on-line systems at the personal computer or minicomputer level.
Food Testing:	Special purpose fixturing for textural measurements of food products is available.

Specifications	
Capacity:	150 kN, 15,000kg, (33,750 lb)
Force Rating:	25 kN up to 500mm/min(20in/min)(tension and compression below moving crosshead)150 kN up to 50mm/min. (2in/min)
Load Range:	0.1N to 150 kN,1500kg(10g to 33,750lb using interchangeable load cells)
Load Weighing System	±0.5% of reading to 1/10 of (2518-800 and 2512-304 type) of load cell capacity. ±1% of reading to 1/50 of load cell capacity ±1 count on the display accuracy
Strain measuring system	±0.6% of reading ± transducer linearity (at digital readout accessory or analog output.) ±1 count on the display.
Position measurement Accuracy (no load):	±0.1mm(0.004 in) or ±0.15% of displacement
Position measurement repeatability (no load):	±.05mm(0.002 in)
Crosshead speed range:	0.05 to 500mm/min (0.002 to 20 ipm)
Crosshead speed accuracy:	±0.2% of setting over full speed range (averaged over 100mm (4 in))
Return speed:	500mm/min (20in/min)
Crosshead Guidance:	±0.2mm/over 100mm, 0.4mm throughout full travel (0.008in/over 4in travel , 0.016in, throughout full travel) TIR relative to vertical axis (no load).
*Axial stiffness:	140kN/mm(800,000lb/in)
Crosshead Travel:	1220mm(48 in)(with screw covers and base adapter excluding optional grips and fixtures)

* Instron's stiffness specification includes all drive belts and components as well as the frame.

Specifications (continued)

Testing(sample) space	
Lateral:	560mm(22 in)
Front to Back:	Unlimited
Frame Dimensions	
Height:	2260mm (89 in)
Width:	1115mm(43.8in)
Depth:	660mm(26 in) requires 100mm (4 in) clearance to right of frame)
Weight:	500 kg(1100 lb)
Console Dimensions	
Height:	295mm(11.6 in)
Width:	572mm(22.5 in)
Depth:	508mm (20 in) requires 75 mm (3 in.) clearance behind console
Weight:	19kg(44lbs)
Power requirements	
Power:	2500 VA max
Voltage:	100/120/220/240 volts +/-10%, single phase
Frequency:	47 to 63 Hz
Environmental requirements	
Operating Temperature:	+10° to +30° C(+50° to +86° F) can be field adjusted for use up to +38°C(+100°F)
Storage Temperature:	-30°C to +50°C (-22 to 122°F)
Humidity:	10% to 90% (noncondensing)
Catalog Number	4206-004 Model 4206 Universal Testing Instrument:

Instron Corporation reserves the right to change specifications without notice. The performance specifications above are developed in accordance with Instron's standard procedures.

INSTRON Factory Locations:

U.S.A.
Instron Corporation
100 Royall Street
Canton, Massachusetts 02021
Tel. (617) 828-2500
FACS: (617)828-2112

Great Britain
Coronation Road, High Wycombe
Bucks HP12 3SY
Tel: 44-494-464646,
Telex: 851-83222
FACS:44-494-456123

Sales/Service Offices and Demonstration Centers
are located in major cities throughout the world.



INSTRON