

The difference is measurable[®]

INDUSTRIAL SERIES

LX Models

Industrial Series LX Models are designed for high-capacity tension, compression, bend/flex, and shear testing. Featuring a large single, test space that delivers exceptional flexibility and a small footprint, these frames are available in a 300 kN (67,500 lbf) capacity. Understanding the critical importance of operator safety, the Instron® LX Models are CE compliant and incorporate high-quality materials, components, and craftsmanship.

FFATURES AND BENEFITS

- Large, single test space design adapts to a wide range of specimen sizes, grips, fixtures, and extensometry
- Dual-acting actuator offers precise control for tension and compression testing
- Load frame, hydraulic power supply, and controller combined in a single package saves valuable lab floor space while providing a protective environment for hydraulic and electrical components
- Optional hydraulically adjustable and clamping crosshead simplifies changing test opening for load strings or specimens of varying lengths
- Optional open-front hydraulic wedge grips improve operator safety and throughput, and allow a limited number of jaw faces to cover a large range of specimen sizes
- Convenient working height, large toe relief area, and ergonomic controls increase operator productivity and comfort
- Ergonomic handset with a fine position adjustment wheel, two programmable softkeys, start, stop and return functions, and variable speed jog
- Powerful, yet user-friendly materials testing software provides repeatable and reproducible results for simple to sophisticated testing requirements
- Variable pressure hydraulic power supply provides pressure on demand, reducing heat generation, increasing oil life, and eliminating the need for water cooling
- 300 kN (67,500 lbf) Capacity

TESTING APPLICATIONS

- Metals Bar, Plate, Pipe & Tube, Rebar, Structural
- Fasteners
- Wire Rod
- · Composites

STANDARDS

LX Models conform to many International Standards, including (but not limited to):

- ASTM A370, A615, E4, E8, E83, E290, F606
- EN10002-1, 10002-2, 10002-4
- ISO 6892-1, 6892-2, 7438, 9513, 12100, 13849-1, 15630-1
- JIS Z2241, Z2248
- BS4449



ACCESSORIES

- Tensile Grips flat, round, button head
- · Bend/Flex and Shear Fixtures
- Fastener Fixtures
- Furnaces
- Compression Platens plane and self-aligning
- · Extensometers, Deflectometers
- Low-Capacity Load Cells
- Interlocked Safety Enclosures

SPECIFICATION TABLE

Model	Load Capacity		Horizontal Opening (between columns)		Maximum Test Speed		Actuator Stroke		Floor Space Requirements (W × D)		
	kN	kgf	lbf	mm	in	mm/min	in/min	mm	in	mm	in
300 LX	300	30,000	67,500	508	20	152	6	305	12	786 × 993	30.94 × 39.13

Configuration	Description				
Jl	Manually Adjustable Crosshead with Notched Columns				
J3	Hydraulically Adjustable and Clampling Crosshead with Smooth Columns				

Model	Tension (Adjus		Maximum Operating Height		Net Weight	
	mm	in	mm	in	kgs	Ibs
J1E1	305 - 965	12 - 38	2388	94	1045	2300
J1E2	305 - 1321	12 - 52	2743	108	1060	2340
J1E3	305 - 1854	12 - 73	3277	129	1100	2420
J3E3	0 - 1854	0 - 73	3380	133	1360	3000

Notes: Linear guidance option (H2) reduces available test opening dimensions by 178 mm (7 in)

COMMON SPECIFICATIONS

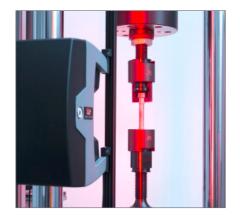
Data Acquisition Rate by Software Up to 1 kHz synchronous on load and strain

Load Measurement Accuracy ± 0.5% of reading down to 1/500 of load cell capacity

Strain Measurement Accuracy Meets or surpasses the following standards: ASTM E83, ISO 9513, and EN 10002-4

Displacement Measurement 1.0 µm (0.00004 in) resolution Accuracy of ±0.5% or 0.13 mm (0.005 in) displacement (whichever is greater)

Hydraulic Power Supply Voltage Options 200-250 VAC, 3PH, 50/60 HZ, 15 Amps 380-415 VAC, 3PH, 50/60 HZ, 10 Amps 440-480 VAC, 3PH, 50/60 HZ, 10 Amps



300 kN Split Tensile Holders for Testing .505 Button Head Specimens on 300LX



300LX with Linear Guidance option (H2)

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