

3400 SERIES SYSTEM RETROFITS

Legacy Table Model System Upgrades and Modernization

3400 Series system retrofits allow older legacy Instron electromechanical table model universal testing machines to be upgraded with the latest control electronics and testing software so you can enjoy the latest in testing technology. Instron's universal testing machines are built to provide decades of reliable and repeatable test results. The comprehensive retrofit upgrade is a cost-effective way to extend the life of your legacy machinery, prevent unexpected downtime, and enjoy the latest in testing software and features.

FEATURES AND BENEFITS

A retrofit upgrade breathes fresh life into a wide variety of legacy table model systems from 5 kN to 50 kN and provides them with the following benefits:

- **System Life Extension:** Rejuvenates your system and extend its life.
- **Downtime Prevention:** A comprehensive replacement of vulnerable and worn components and electronics prevents unplanned downtime.
- **Supportability:** Upgrades your system with fully-supported electronics and mechanical components.
- **3400 Architecture:** Provides full access to latest Bluehill® Universal software and platform testing features.
- **Lab Uniformity:** Simplify operator training by upgrading all your machines to run on Bluehill Universal software and 3400 Series controls.
- **Accessory Compatibility:** Full compatibility with latest software and accessories. Backwards compatible with most extensometers, load cells, and accessories.

3400 UPGRADE FEATURES

- **Operator Protect:** Instron's patent-pending Operator Protect system architecture is an intelligent workflow that keeps equipment and operators safer by controlling system status from setup to test completion.
- **Safety Coaching:** 3400 Series systems provide clear visual feedback regarding system status at all times. Users will easily understand when the system is in a safe setup mode, and are clearly reminded to exit the test space once safety limits are removed.
- **Collision Mitigation:** Reduce damage to equipment and delicate specimens by stopping the crosshead if force is detected upon return or during a jog.
- **Smart-Close Air Kit (optional):** Finger pinch hazards from pneumatic grips are reduced through lower grip closing pressure and restricted speed during the setup phase of your test.
- **3400 Operator Panel:** The all-new operator panel includes LED status indicators for start, stop, jog, and return keys.



NEW & REPLACED COMPONENTS

- 3400 Series control electronics
- Robust sheet metal electronics enclosure
- Integrated 3400 operator panel
- Maintenance-free brushless AC servomotor
- Speed sensor
- Power amplifier
- Drive belt
- E-stop button
- Indicator panel
- System front cover
- Smart-close air kit (optional add-on)

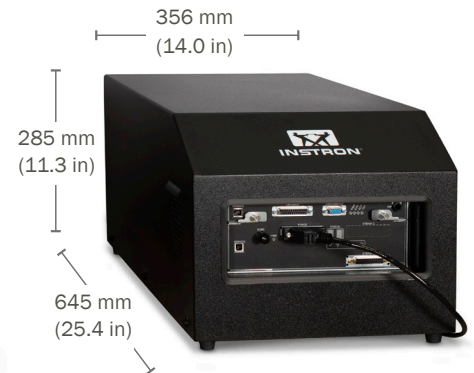
UPGRADE PROCESS

- Site survey conducted to assess viability of system upgrade
- Retrofit package installed on-site by Instron Field Service Engineer in 1-2 days
- System calibration and training provided
- Availability of Retrofit replacement parts and service guaranteed for 10 years



The retrofit's control electronics can be flexibly relocated** to either side of the machine or to the floor to make more room on your workspace. Its robust sheet metal enclosure allows it to also serve as a monitor stand.

**Distance of retrofit controller box from the machine is limited by 1524 mm (60.0 in) cable length



FRAMES ELIGIBLE FOR 3400 SYSTEM RETROFIT

Model	Capacity (kN)	Support Phase	Manufacturing Period
3365	5	2	2002 - 2020
3366	10	2	2002 - 2020
3367	30	2	2002 - 2020
3369	50	2	2002 - 2020

Notes:

1. Additional unlisted models can be upgraded upon request. Please contact Instron for support.
2. System speed, compliance, and general operating specifications are limited by the system being upgraded and the strain and load equipment utilized.

Data Acquisition Rate at the PC:

Up to 1 kHz simultaneous on force, displacement, and strain channels.

Load Measurement Accuracy:

±0.5% of reading down to 1/200th of load cell capacity.

±1.0% of reading down to 1/500th of load cell capacity.

Displacement Measurement Accuracy:

±0.02 mm or 0.15% of displacement (whichever is greater).

Testing Speed Accuracy:

(Zero or constant load) ±0.2% of set speed.

Single Phase Voltage:

100, 120, 220, or 240 VAC ±10%, 47 to 63 Hz.

Operating Temperature:

+5 to +40 °C (+41 to +104 °F)

Storage Temperature:

-25 to +55 °C (-13 to +131 °F)

Ingress Protection (IP) Rating:

IP 2X. Protective measures may be required if excessive dust, corrosive fumes, electromagnetic fields, or hazardous conditions are encountered.

Humidity Range:

+10 to +90%, non-condensing at 20 °C

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