

# 6800 Series

Universal Testing Systems



**6800 SERIES**  
the **NEXT**  
**GENERATION** of  
Universal Testing Systems





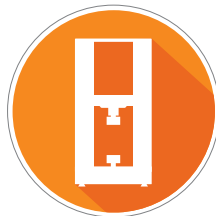
For over **75 YEARS** the Intron® brand has been widely recognized for producing some of the most advanced mechanical testing systems in the world. Our systems are designed by industry experts, vetted by active members of major standards organizations, and supported by a global network of skilled and experienced service technicians. This comprehensive approach allows us to back each Intron system with an unmatched level of industry and application expertise designed to support it throughout its lifetime.



**1500+ employees**  
A highly-educated, experienced, and diverse workforce



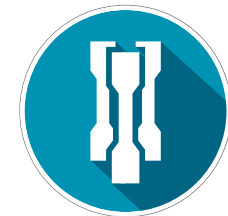
Representing **160 countries**, speaking **40+ languages**



**50,000+ systems** installed worldwide



**75+ years** of engineering and manufacturing testing systems



**Diverse product range** for nearly all global markets and industries

# SOLUTIONS FOR ALL OF YOUR TESTING NEEDS

Application-Based Testing Solutions 500 N to 50 kN

The 6800 Series Universal Testing Systems provide exceptional performance with unparalleled accuracy and reliability. Offering up to 5 kHz data acquisition and  $\pm 0.5\%$  accuracy down to 1/1000th of load cell capacity, the 6800 Series offers ultimate flexibility for any testing need.

## SINGLE COLUMN TESTING SYSTEMS

For low force applications, the 6800 single column series provides up to **5 kN** capacity available in standard and extra height options.



SCAN THE QR CODE  
to learn more and see  
the 6800 systems in action.



## TABLE MODEL TESTING SYSTEMS

For higher force applications, the 6800 dual column table model series provides up to **50 kN** capacity available in standard and extra height/width options.

# SOLUTIONS FOR ALL OF YOUR TESTING NEEDS

Application-Based Testing Solutions 100 kN to 300 kN

## FLOOR MODEL TESTING SYSTEMS

The 68FM-100 series testing systems provide up to **100 kN** capacity available in standard, extra height, and tall base options.





## FLOOR MODEL TESTING SYSTEMS

The 68FM-300 series testing systems provide up to **300 kN** capacity available in standard, extra height, extra wide, and tall base options.

# FLEXIBILITY BY DESIGN

Application-Based Testing Solutions

Instron® systems are routinely found in industries that require the testing of plastics, metals, elastomers and packaging. Some of our key applications can be found in the biomedical, automotive, electronics, and raw materials industries.

The 6800 Series universal testing machines are designed to perform tensile, compression, flex, peel, puncture, friction, shear tests, and more. The systems are compatible with hundreds of grips and fixtures found in Instron's expansive accessories catalog, with specific configurations designed to perform many of the most popular ASTM and ISO tests.

SCAN THE QR CODE  
to see Instron's full  
Accessories Catalog.







02



03



04



05



06



07

## Tensile Testing

- 01 Temperature Chamber with AVE 2
- 02 Cord And Yarn Grips
- 03 Manual Wedge Action Grips & T-Slot Table
- 04 Dual Column XL Extensometer
- 05 Bio Bath & 250 N Pneumatic Grips
- 06 Hydraulic Wedge Action Grips
- 07 1 kN Pneumatic Grips

# FLEXIBILITY BY DESIGN

Application-Based Testing Solutions



## Compression and Flexure Testing

- 01 Syringe Compression Fixture
- 02 Three-point Bend Fixture
- 03 Compression Platens
- 04 Three-point Bend Fixture with Clip-On Extensometer
- 05 Compression Fixture with Composite Fixture



06



08



10



07



09

## Peel, Friction, and Torsion Testing Solutions

- 06 Syringe Test on Torsion Add-On 2.0
- 07 Quick Change Load Cell
- 08 Variable Angle Peel Fixture
- 09 Fully Enclosed Safety Shield
- 10 Coefficient of Friction



## Simpler

Powered by Bluehill® Universal

The 6800 Series Universal Testing Systems are powered by Instron's Bluehill Universal Software. Equipped with easy-to-understand icons and workflows, Bluehill Universal makes it simple to train users and set up tests, helping you maximize lab efficiency while minimizing costly errors.



### QuickTest

For when you need results fast, QuickTest allows users to enter a few simple parameters and run their test within seconds.



### Pre-Loaded Templates

Bluehill Universal includes an extensive library of pre-configured methods for some of the most commonly used ASTM, ISO, and EN standards. The methods are packaged in modules that are specific to your testing application.



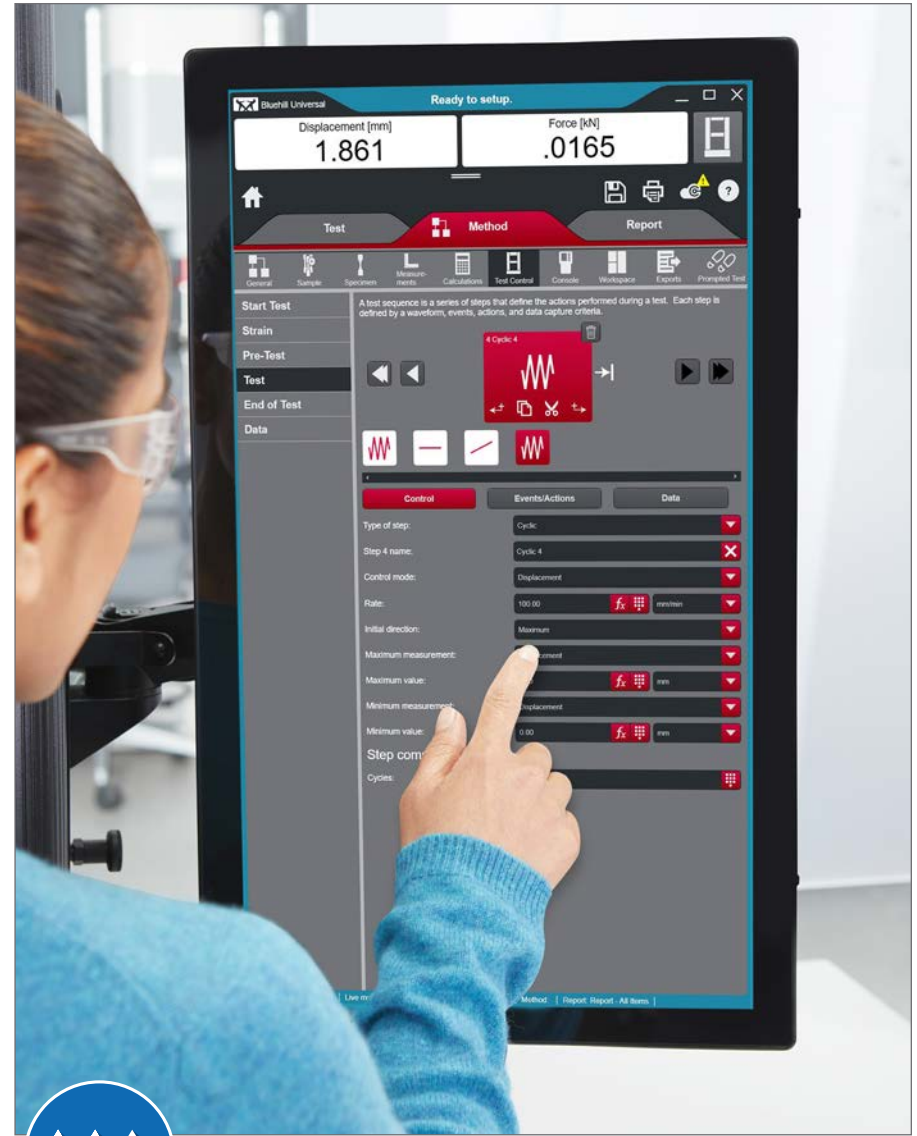
### Workflow

Users can be guided through the entire testing process with step-by-step instructions, ensuring that their tests remain repeatable, simple, and error-free. The prompts can be easily customized with your own text and images.



## Auto Positioning

Auto Positioning saves the correct fixture separation starting location for each test method. This ensures all operators run each test from exactly the same place across all shifts every day.



## TestProfiler

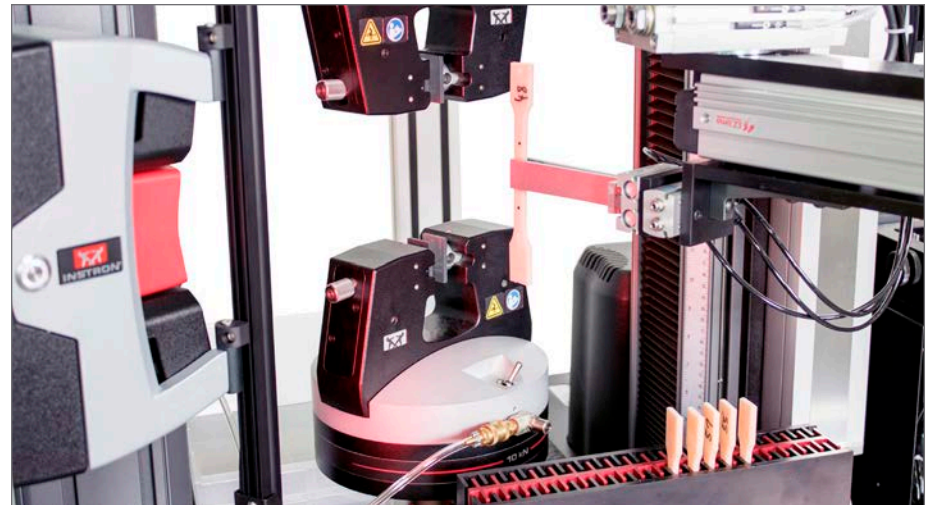
Build simple cyclic tests that include ramps, holds, and triangle waves. Conditional logic allows users to create looping patterns that help mimic real life scenarios within tests.

# SMARTER

## Advanced Performance and Applications

The 6800 Series can be expanded to include Digital Input/Output Channels and up to 11 Sensor Conditioning Modules to ensure compatibility with advanced accessories and external devices.

When testing on a 6800 Series frame you can capture synchronized data at a rate of up to 5 kHz with adjustable bandwidth to never miss a test event.



## Automated Testing Solutions

Automated Testing Systems built on the 6800 Series Systems enable a new dimension of testing productivity, improve safety, reduce variability, save time and increase throughput. From XY stages to 6-axis robots, automated testing systems can be configured for any application.



### Torsion Add-On 2.0

The Torsion Add-On easily mounts to any new or existing 68SC or 68TM system to enable biaxial testing of components such as bone screws, Luer locks, electrical knobs, and more.



### AutoX750

High accuracy automatic contacting extensometer produces reliable and repeatable results with no manual steps.



### AVE 2

The AVE 2 is a non-contacting video extensometer that provides accurate and repeatable strain measurement without affecting material properties.

# SAFER

Safety without Sacrificing Throughput



## Operator Protect

The 6800 Series is built on Instron's patent-pending Operator Protect architecture. An intelligent workflow keeps equipment and operators safer by controlling system status and speed from setup to test completion.



## Built-in Safety Coaching

The 6800 series provides clear visual feedback regarding system status at all times. Users will easily understand when the system is in a safe setup mode, and clearly reminded to exit the test space once these safety limits are removed.



## Smart-Close Air Kit

Finger pinch hazards from low-force pneumatic grips are reduced through lower grip-closing pressure and restricted speed during the setup phase of your test.



The 6800 handset brings system controls closer than ever before with an all-new ergonomic handset, mounted directly to the frame. Operators can use the handset in the mounted position or removed from its dock.



### Customizable Soft Keys

With 2 user-defined 'Soft Key' buttons, the operator can initiate a variety of commands. The Soft Keys can be defined per method, allowing for customization for each test.



### Virtual Interlock

With Instron's patent-pending system architecture, the machine's movement is restricted during setup to prevent unintended motion of the crosshead.



### Variable Speed Jog

During setup mode, your system will default to a safe speed appropriate for an operator to work in the test space.



### Precise Positioning

The Fine Position adjustment thumbwheel with tactile feedback allows for precision positioning of the crosshead in 4 μm increments when performing sensitive testing.



### Specimen Protect

Specimen Protect prevents unwanted forces from being applied to the specimen by automatically making fine adjustments to the crosshead, protecting your valuable specimen from damage.

# BUILT TO LAST

Protecting Your Investment



## Instron 2580 Series Load Cells

The 2580 Series load cells are specifically designed for use with 6800 testing systems, offering exceptional performance with the ability to measure forces as low as 1/1000th of the force capacity to an accuracy of  $\pm 0.5\%$  of reading. The Instron® designed and manufactured load cells can withstand loads up to 150% of their force capacity without damage and 300% without mechanical failure. Automatic transducer recognition and electrical calibration makes them easy to use.



## Collision Mitigation

Reduce damage to equipment and delicate specimens by stopping the crosshead if force is detected upon return or during a jog.



## Load Cell Overload Protection

The 6800 series systems automatically stop when the load cell reaches maximum capacity to prevent damage to the load cell, system, and accessories.





### Simplified Maintenance

The 6800 controller electronics can be quickly and easily removed and re-installed by a trained Field Service Engineer. Combined with advanced diagnostics and the ability to remove the system covers to perform maintenance without first removing large and/or heavy accessories means that Service visits are faster and more efficient than ever, increasing your lab's up-time and throughput.



### Ingress Improvements

Testing is a messy process and reduction in debris ingress has been achieved through gasketing and a patent-pending airflow design. Additional design steps were taken to locate internal electrical and mechanical hardware safely away from beneath the test area and an abrasion resistant coating is applied to the 12 mm metal work surface for durability.



## BUILT TO PERFORM

Protecting Your Investment

### Precision Guidance for Alignment and Bending

When performing a uniaxial test, accurate stress and strain results can only be achieved with a system that contains robust, precise guidance columns that ensure minimal specimen bending under load.

### Stiff Frames for High-Strength Materials

The 6800 is built for high performance. It features pre-loaded bearings, precision ball screws, an extra thick crosshead and base beam, and low-stretch drive belts to ensure superior performance and longevity.

### Larger Motors for Better Reliability

The 6800 load frames use powerful motors with reserve capacity that allow for quicker rates of acceleration. Maintenance-free brushless AC servomotors enable cyclic, creep, and relaxation testing for up to 10 days (up to 1Hz at 25 °C).

### Servo-Controlled Drive System

Along with a powerful motor, the 6800 drive system consists of a rugged steel casting with a dual-belt drive system. Unlike systems that use gear-reducers, which create backlash and lower drive system stiffness, the dual-belt system provides synchronous movement of the ball screws, eliminating crosshead tilt and aiding system alignment.



## Built to Perform

The high force system has been fortified against shock and vibration which allows for continuous testing at the maximum rated frame capacity and the maintenance free brushless AC servomotors support continuous cyclic, creep, and relaxation testing for up to 10 days.

## Built to Last

Reduction in debris ingress has been achieved through gasketing and a patent-pending airflow design. Internal electrical and mechanical hardware is located safely away from directly beneath the test area. The 12 mm metal work surface is treated with an abrasion-resistant coating for durability.

## Ergonomic Design

Tall base option on floor model systems provides an ergonomically comfortable testing station, the contoured design allows the operator easy access to the testing space for fixture assembly as well as a comfortable reach to an all-new ergonomic handset which offers customizable soft keys, specimen protect, and a fine position adjustment wheel.

# SUPPORT FOR THE LIFE OF YOUR EQUIPMENT

Protecting Your Investment

Instron® is among the largest supplier of materials testing systems in the world. Our reliable testing systems are designed to run critical tests 24 hours a day. However, if something does go wrong, or if you have a question, we offer a variety of resources to ensure you receive the assistance you need as soon as you need it.



Instron Connect

Instron connect allows you to securely share your screen with Instron service professionals and submit service requests directly through your test system. You can also use this portal to easily send test methods and sample data files for review.



Remote Support

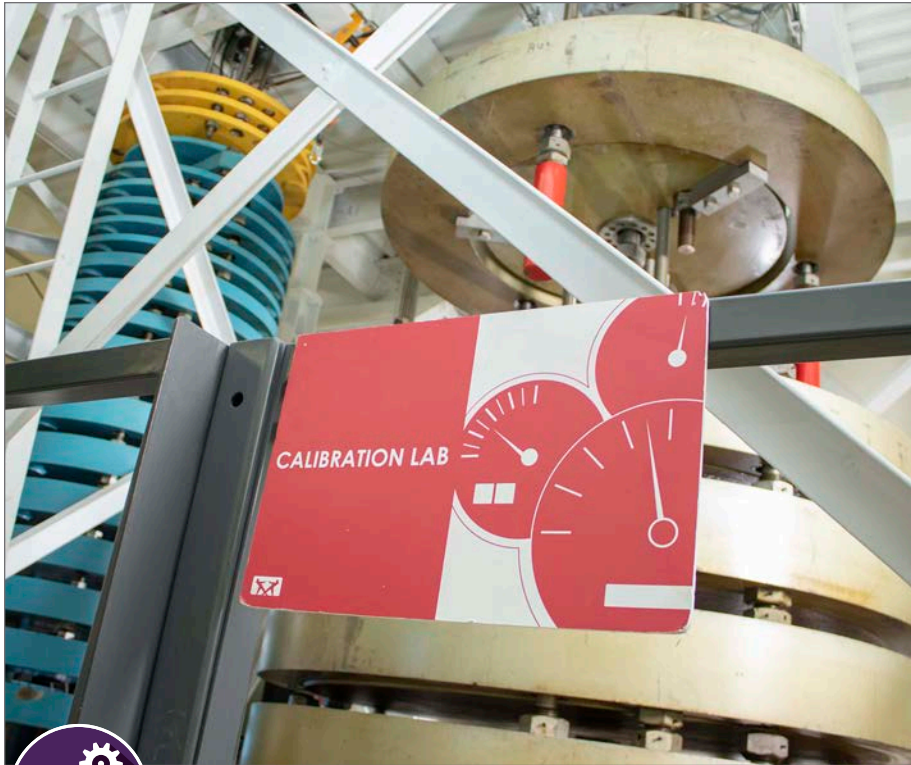
6800 Series testing systems can send errors and diagnostics to our expert technical support teams around the world for troubleshooting.



Training

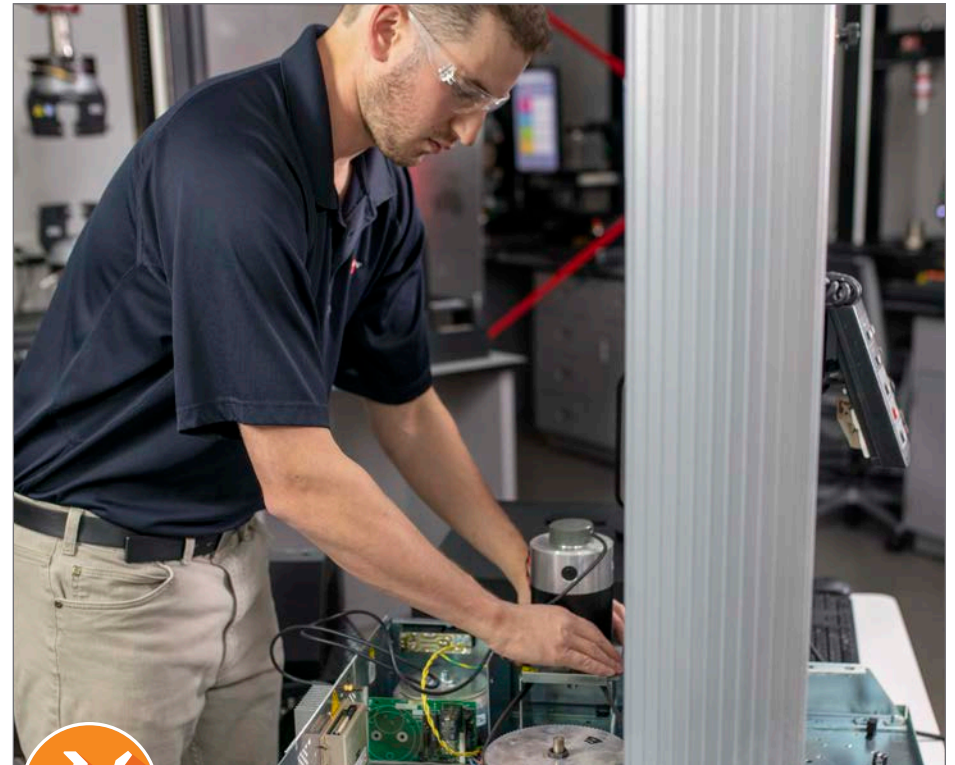
Training courses are available on-site, regionally, at an Instron factory, or online. Utilize our Applications Engineering Lab or Custom Solutions Group for the latest technological advances in materials testing.

SCAN THE QR CODE  
to learn more about how Instron  
can help protect your investment.



## Calibration

Our state-of-the-art Calibration Laboratory offers a comprehensive range of accredited calibration and verification services complying with ASTM, ISO, and Nadcap standards for force, speed, strain (extensometers), displacement, impact, temperature, torque, creep, strain gauge channel, and alignment.



## On-Site Services

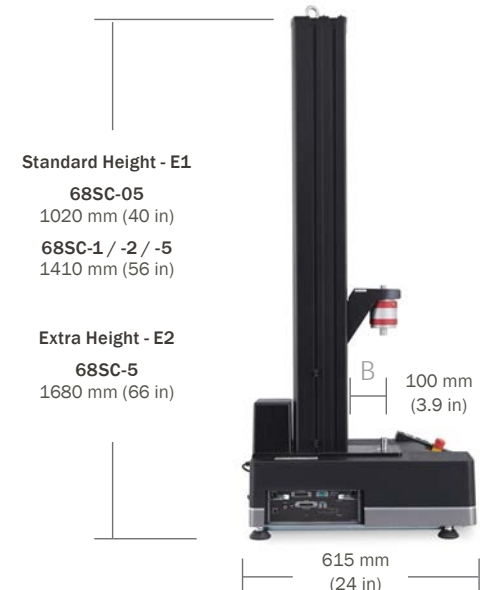
When on-site assistance is needed, our team of 300+ global service engineers can help get you back up and running. Our factory-trained technicians are located all around the world and speak 40+ languages to help solve problems no matter where they occur.

# 6800 SERIES SPECIFICATIONS

## 6800 Single Column Series

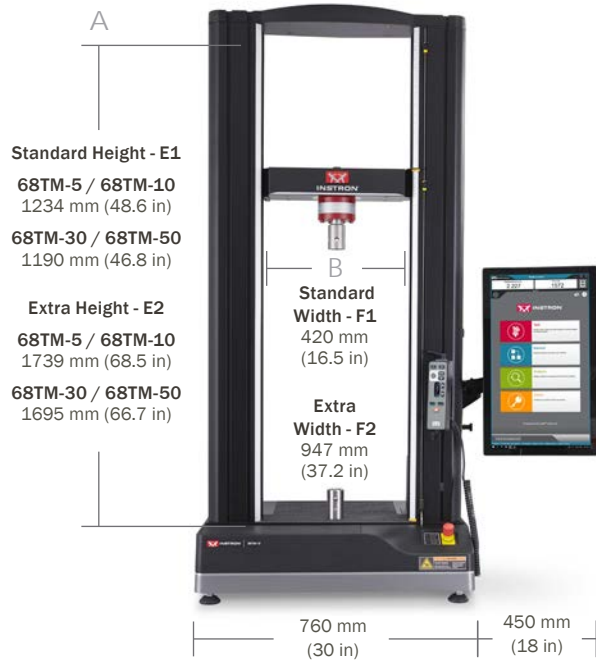
|                                   |        | 68SC-05          | 68SC-1           | 68SC-2           | 68SC-5               |
|-----------------------------------|--------|------------------|------------------|------------------|----------------------|
| Force Capacity                    | kN     | 0.5              | 1                | 2                | 5                    |
|                                   | lbf    | 112              | 225              | 450              | 1125                 |
| Crosshead Travel                  | mm     | 505              | 868              | 868              | 868 (E1), 1112 (E2)  |
|                                   | in     | 19.9             | 34.2             | 34.2             | 34.2 (E1), 43.8 (E2) |
| Vertical Test Space (A)           | mm     | 738              | 1118             | 1118             | 1118 (E1), 1375 (E2) |
|                                   | in     | 29.1             | 44.0             | 44.0             | 44.0 (E1), 54.1 (E2) |
| Horizontal Test Space (B)         | mm     | 100              | 100              | 100              | 100                  |
|                                   | in     | 3.9              | 3.9              | 3.9              | 3.9                  |
| Maximum Speed                     | mm/min | 2540             | 2540             | 2540             | 2540                 |
|                                   | in/min | 100              | 100              | 100              | 100                  |
| Minimum Speed                     | mm/min | 0.001            | 0.001            | 0.001            | 0.001                |
|                                   | in/min | 0.00004          | 0.00004          | 0.00004          | 0.00004              |
| Maximum Return Speed              | mm/min | 2540             | 2540             | 2540             | 2540                 |
|                                   | in/min | 100              | 100              | 100              | 100                  |
| Position Control Resolution       | nm     | 9.5              | 9.5              | 9.5              | 9.5                  |
|                                   | µin    | 0.38             | 0.38             | 0.38             | 0.38                 |
| Frame Axial Stiffness             | kN/mm  | 8.5              | 8.5              | 8.5              | 8.5                  |
|                                   | lb/in  | 48500            | 48500            | 48500            | 48500                |
| Maximum Force at Full Speed       | kN     | 0.5              | 1                | 2                | 2.5                  |
|                                   | lbf    | 112              | 225              | 450              | 562                  |
| Maximum Speed at Full Force       | mm/min | 2540             | 2540             | 2540             | 1270                 |
|                                   | in/min | 100              | 100              | 100              | 50                   |
| Footprint Dimensions (h × w × d)* | mm     | 1020 × 460 × 615 | 1410 × 460 × 615 | 1410 × 460 × 615 | 1410 × 460 × 615     |
|                                   | in     | 40 × 18 × 24     | 56 × 18 × 24     | 56 × 18 × 24     | 56 × 18 × 24         |
| Weight                            | kg     | 55               | 62               | 62               | 62 (E1), 67 (E2)     |
|                                   | lb     | 121              | 136              | 136              | 136 (E1), 148 (E2)   |
| Maximum Power Requirements        | VA     | 700              | 700              | 700              | 700                  |

\* The footprint width is for the system only. The Operator Dashboard monitor may add 250 mm (10 in) to the overall width of the frame. The extra height (E2) option for the 68SC-5 adds 27 cm (10 in) to the overall height of the frame.





## 6800 Table Model Series



|   |        | 68TM-5               | 68TM-10              | 68TM-30  | 68TM-50              |
|---|--------|----------------------|----------------------|--|----------------------|
| <b>Force Capacity</b>                     | kN     | 5                    | 10                   | 30   | 50                   |
|   | lbf    | 1125                 | 2250                 | 6750   | 11250                |
| <b>Crosshead Travel</b>                   | mm     | 1163 (E1), 1648 (E2) | 1163 (E1), 1648 (E2) | 1119 (E1), 1605 (E2)                                 | 1119 (E1), 1605 (E2) |
|   | in     | 45.8 (E1), 64.9 (E2) | 45.8 (E1), 64.9 (E2) | 44.1 (E1), 63.1 (E2)                                 | 44.1 (E1), 63.1 (E2) |
| <b>Vertical Test Space (A)*</b>           | mm     | 1234 (E1), 1739 (E2) | 1234 (E1), 1739 (E2) | 1190 (E1), 1695 (E2)                                 | 1190 (E1), 1695 (E2) |
|   | in     | 48.6 (E1), 68.5 (E2) | 48.6 (E1), 68.5 (E2) | 46.8 (E1), 66.7 (E2)                                 | 46.8 (E1), 66.7 (E2) |
| <b>Horizontal Test Space (B)</b>          | mm     | 420                  | 420                  | 420 (F1), 947 (F2)                                   | 420                  |
|   | in     | 16.5                 | 16.5                 | 16.5 (F1), 37.2 (F2)                                 | 16.5                 |
| <b>Maximum Speed</b>                      | mm/min | 3048                 | 2032                 | 1016   | 762                  |
|   | in/min | 120                  | 80                   | 40   | 30                   |
| <b>Minimum Speed</b>                      | mm/min | 0.001                | 0.001                | 0.001  | 0.001                |
|   | in/min | 0.00004              | 0.00004              | 0.00004  | 0.00004              |
| <b>Maximum Return Speed</b>               | mm/min | 3500                 | 2100                 | 1100   | 800                  |
|   | in/min | 138                  | 83                   | 43   | 31                   |
| <b>Footprint Dimensions (h × w × d)**</b> | mm     | 1640 × 760 × 715     | 1640 × 760 × 715     | 1640 × 756 × 715                                     | 1640 × 760 × 715     |
|   | in     | 65 × 30 × 28         | 65 × 30 × 28         | 65 × 30 × 28   | 65 × 30 × 28         |
| <b>Position Control Resolution</b>        | nm     | 9.9                  | 4.9                  | 2.6 (F1), 2.8 (F2)                                   | 1.8                  |
|   | μin    | 0.39                 | 0.19                 | 0.10 (F1), 0.11 (F2)                                 | 0.07                 |
| <b>Frame Axial Stiffness</b>              | kN/mm  | 45                   | 50                   | 140 (F1), 88 (F2)                                    | 180                  |
|   | lb/in  | 256,950              | 285,500              | 799,000 (F1), 502,000 (F2)                           | 1,027,000            |
| <b>Maximum Force at Full Speed</b>        | kN     | 2.5                  | 5                    | 15   | 25                   |
|   | lbf    | 563                  | 1125                 | 3372   | 5620                 |
| <b>Maximum Speed at Full Force</b>        | mm/min | 1524                 | 1016                 | 508  | 381                  |
|   | in/min | 60                   | 40                   | 20   | 15                   |
| <b>Weight</b>                             | kg     | 139 (E1), 154 (E2)   | 139 (E1), 154 (E2)   | 196 (E1+F1), 215 (E2+F1)<br>453 (E1+F2), 471 (E2+F2) | 255 (E1), 278 (E2)   |
|   | lb     | 307 (E1), 340 (E2)   | 307 (E1), 340 (E2)   | 433 (E1), 473 (E2)<br>999 (E1+F2), 1038 (E2+F2)      | 562 (E1), 612 (E2)   |
| <b>Maximum Power Requirements</b>         | VA     | 1400                 | 1400                 | 1400 (F1)<br>1500 (F2)                               | 1400                 |

\* The F2 option for 68TM-30 reduces test space by 53 mm (2 in).

\*\* The footprint width is for the system only. The Operator Dashboard monitor may add 450 mm (18 in) to the overall width of the frame. The extra height (E2) option adds 530 mm (21 in) to the overall height of the frame.

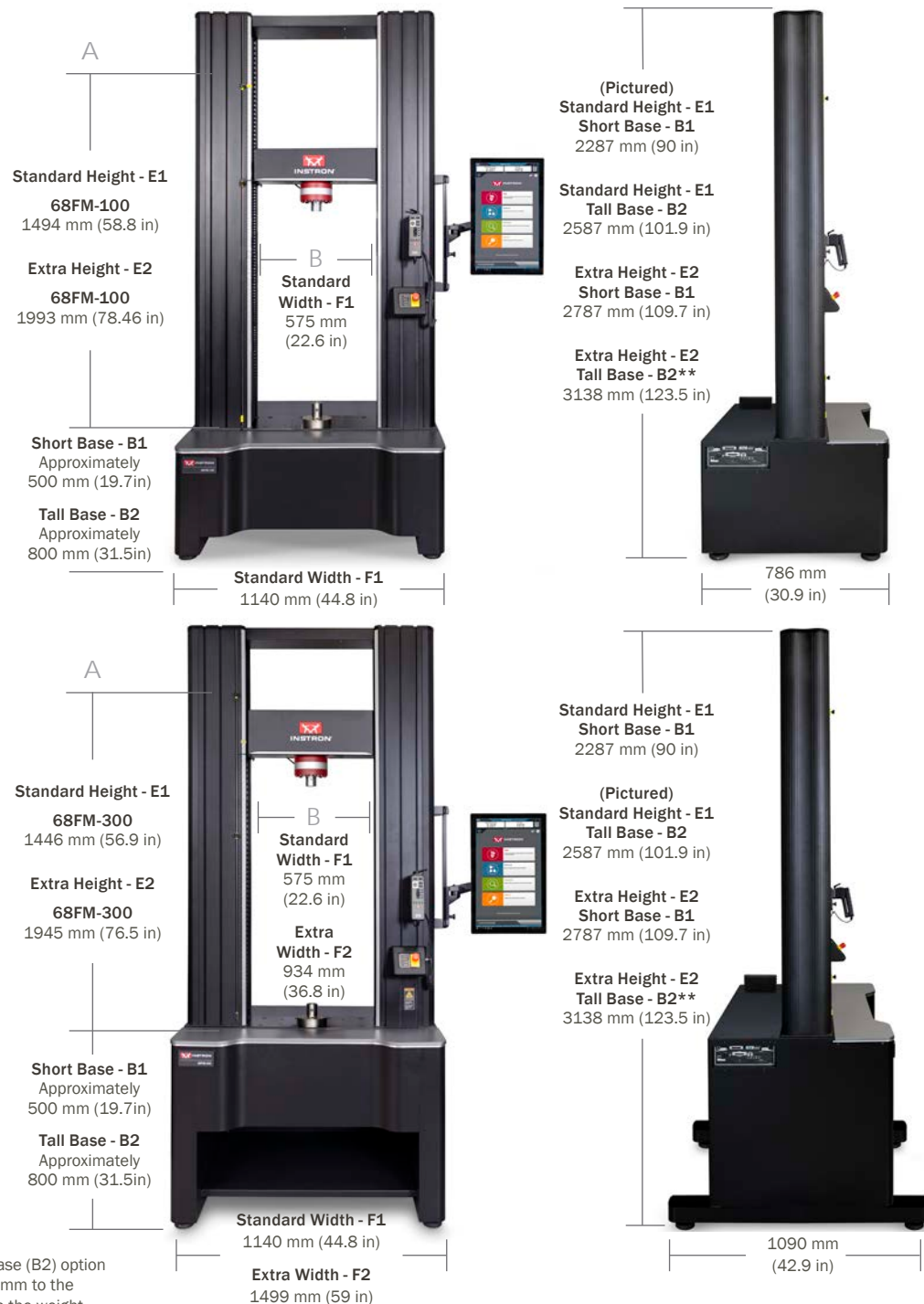
# 6800 SERIES SPECIFICATIONS

## 6800 Floor Model Series

|                                    |        | 68FM-100  | 68FM-300              |
|------------------------------------|--------|---|-----------------------|
| Force Capacity                     | kN     | 100   | 300                   |
|                                    | lbf    | 22480   | 67440                 |
| Crosshead Travel                   | mm     | 1407 (E1), 1906 (E2)                              | 1359 (E1), 1858 (E2)  |
|                                    | in     | 55.3 (E1), 75 (E2)                                | 53.5 (E1), 73.1 (E2)  |
| Vertical Test Space (A)            | mm     | 1494 (E1), 1993 (E2)                              | 1446 (E1), 1945 (E2)  |
|                                    | in     | 58.81 (E1), 78.46 (E2)                            | 56.9 (E1), 76.5 (E2)  |
| Horizontal Test Space (B)          | mm     | 575 (F1)  | 575 (F1), 934 (F2)    |
|                                    | in     | 22.6 (F1)   | 22.6 (F1), 36.8 (F2)  |
| Maximum Speed                      | mm/min | 1016 (1PH), 1080 (3PH)                            | 560 (3PH)             |
|                                    | in/min | 40 (1PH), 42 (3PH)                                | 22 (3PH)              |
| Minimum Speed                      | mm/min | 0.00005   | 0.00005               |
|                                    | in/min | 0.000004  | 0.000004              |
| Maximum Return Speed (1 & 3 Phase) | mm/min | 1016 (1PH), 1160 (3PH)                            | 640 (3PH)             |
|                                    | in/min | 40 (1PH), 45.6 (3PH)                              | 25.1 (3PH)            |
| Position Control Resolution        | nm     | 2.215625  | 1.140395              |
|                                    | µin    | 0.087   | 0.044                 |
| Frame Axial Stiffness              | kN/mm  | 300   | 350                   |
|                                    | lb/in  | 1713044   | 1998552               |
| Maximum Force at Full Speed        | kN     | 50 (1PH), 75 (3PH)                                | 150                   |
|                                    | lbf    | 11240 (1PH), 16860 (3PH)                          | 33720                 |
| Maximum Speed at Full Force        | mm/min | 508 (1PH), 762 (3PH)                              | 280 (3PH)             |
|                                    | in/min | 20 (1PH), 30 (3PH)                                | 11 (3PH)              |
| Footprint Dimensions (h × w × d)*  | mm     | 2287 (B1), 2587 (B2) × 1140 (F1), 1499 (F2) × 786 |                       |
|                                    | in     | 90 (B1), 101.9 (B2) × 44.89 (F1), 59 (F2) × 30.9  |                       |
| Weight**                           | kg     | 799.2 (E1), 860.9 (E2)                            | 871.5 (E1), 1921 (E2) |
|                                    | lb     | 1762 (E1), 1898 (E2)                              | 947.6 (E1), 2089 (E2) |
| Maximum Power Requirements         | VA     | 3000 (1PH), 4200 (3PH)                            | 4200 (3PH)            |

\* Standard height and short base dimensions only. The extra height (E2) option adds 499 mm to overall height, the tall base (B2) option adds 300 mm to overall height. The footprint width is for the system only. The Operator Dashboard monitor may add 500 mm to the overall width of the frame. Extra Height (E2) with Tall Base (B2) footprint also includes stabilizers, adding 91 kg (200 lb) to the weight.

\*\* Tall Base variants add 62 kg (136 lb) to the weight.



# | SPECIFICATIONS & REQUIREMENTS

## Data Acquisition Rate at the PC:

Up to 5 kHz simultaneous on force, displacement, and strain channels.

## Strain Measurement Accuracy:

Meets or exceeds ASTM E83, BS 3846, ISO 9513, and EN 10002-4 standards.

## Displacement Measurement Accuracy:

$\pm 0.01$  mm or 0.05% of displacement (whichever is greater).

## Testing Speed Accuracy:

(Zero or constant load)  $\pm 0.1\%$  of set speed.

## Single Phase Voltage<sup>1</sup> :

100, 120, 220, or 240 VAC  $\pm 10\%$ , 47 to 63 Hz.

## Three Phase Voltage<sup>2</sup> :

208, 240, 400 VAC  $\pm 10\%$ , 47 to 63 Hz.

## Operating Temperature:

+5 to +40°C (+41 to +104°F)

## Storage Temperature:

-25 to +55°C (-13 to +131°F)

## Load Measurement Accuracy:

$\pm 0.5\%$  of reading down to 1/1000<sup>th</sup> of load cell capacity with 2580 Series load cells (with Advanced Performance Option)

$\pm 0.5\%$  of reading down to 1/500<sup>th</sup> of load cell capacity with 2580 Series load cells

$\pm 0.5\%$  of reading to 1/250<sup>th</sup> of load cell capacity with 2525 or 2530 Series load cells

## 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

### Notes:

1. Applies to all 68SC and 68TM systems as well as the the 68FM-100 with reduced load and speed rating at 208 to 240 VAC -5% / +10%.
2. Applies to 68FM-100 and 68FM-300.

These specifications were developed in accordance with Instron's standard procedures and are subject to change without notice. All systems conform to all relevant European standards and carry a CE mark.

**6800 SERIES**  
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**GENERATION** of  
Universal Testing Systems



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## THE WORLD STANDARD

We stake our reputation on the integrity of data. From the measurement of primary test data to result generation, we design and manufacture the full data integrity chain (e.g. load cells, sensor conditioning, and software). Additionally, we calibrate more than 90,000 of these sensors annually with the lowest accumulated uncertainty.

**30,000+**

We service and calibrate more than 30,000 Instron systems in active use worldwide every year.

**96%**

96% of the Fortune 100 list of the world's largest manufacturing companies use Instron test systems.

**18,000+**

Instron systems have been cited in more than 18,000 patents since 1975.

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