

ElectroPuls™ | E1000 All-Electric Dynamic Test Instrument

The ElectroPuls™ E1000 is a state-of-the-art, all-electric test instrument designed for dynamic and static testing on a wide range of materials and components. It includes Instron® advanced digital control electronics, Dynacell™ load cell, Console software, and the very latest in testing technology – hassle-free tuning based on specimen stiffness, electrically operated crosshead lifts, a T-slot table for flexible test set ups, and a host of other user-orientated features. Powered from a single-phase supply it requires no additional utilities for basic machine operation (for example, pneumatic air, hydraulics, or water).

Features

- Patented, oil-free linear motor technology for clean conditions
- Designed for both dynamic and static testing on a variety of materials and components
- High dynamic performance, capable of operating at over 100 Hz
- ±1000 N dynamic load capacity and ±710 N static load capacity
- Electrically powered from single phase main supply, no need for hydraulic or pneumatic air supplies
- Temperature-controlled air-cooling system
- High-stiffness, precision-aligned twin column load frame with actuator in upper crosshead
- Versatile T-slot table for regular and irregular grips and specimens
- Compact instrument - frame requires less than 0.15 m² (1.6 ft²) of desk space

Hardware and Software Interfaces Designed to Put You in Control

- Console software control interface - engineered with Instron's knowledge of machine usability
- Rigidly mounted control pod with critical controls and emergency stop at your fingertips
- Electrically powered crosshead lift system with manual lever clamps for ease of test space adjustment
- System status indicator shows system conditions (off, on, emergency stop, and fault)

Hidden Technology Designed to Improve Your Test

- Patented stiffness-based loop tuning system
- Unique actuator bearing system maintains load string alignment when offset or lateral loads are induced by specimens or fixtures
- An optical encoder for precise digital extension control and a dedicated position channel for set up and end of test
- Digital controller based on the industry's most advanced controller
- Dynacell advanced load cell technology for faster testing and reduction of inertial errors

A High Level of Versatility

- Readily adjustable test space to suit a wide variety of specimens, grips, fixtures, and accessories
- 60 mm (2.36 in) stroke for a wide range of tests, as well as ease of specimen set up
- Offset diagonal column configuration provides optimum access to the test area
- Compatible with WaveMatrix™, Bluehill® Universal* and Application Specific software
- Compatible with a large range of grips, fixtures, chambers, saline baths, video extensometers, and other accessories
- Optional accessory kit to allow frame to be mounted in horizontal orientation for ease of testing with imaging systems and microscopes

*Only supported in desktop mode

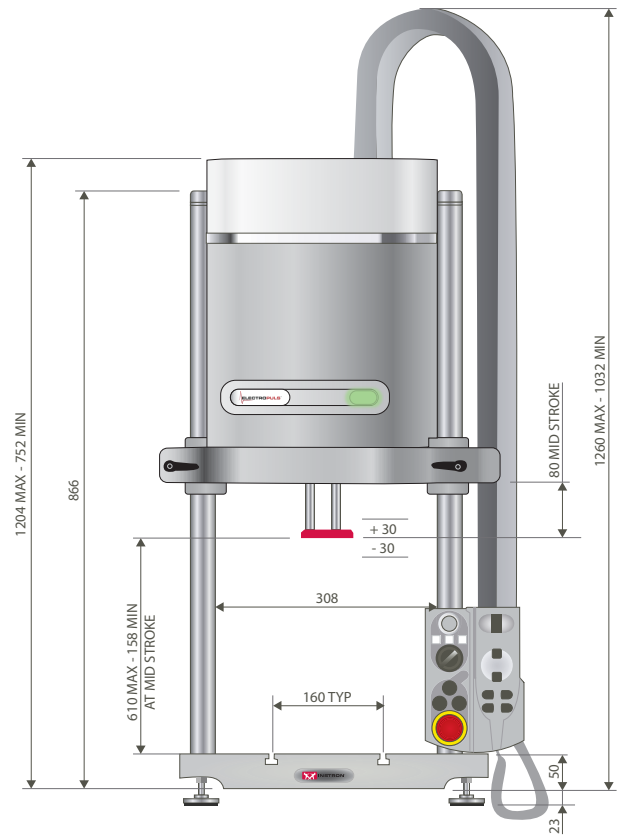


Specifications

Dynamic Capacity	±1000 N (±225 lbf)
Static Capacity	±710 N (±160 lbf)
Stroke	60 mm (2.36 in)
Load Weighing Accuracy	±0.5 % of indicated load or ±0.005 % of load cell capacity, whichever is greater
Daylight Opening	610 mm (24 in) maximum with actuator at mid stroke
Configuration	Diagonal twin-column with actuator in upper crosshead
Mounting	Tabletop: Vertical (Horizontal with optional mounting kit)
Lift and Locks	Electrically powered lifts with manual lever clamps
Load Cell	±2 kN Dynacell™ mounted to base
Weight	92 kg (202 lb) [frame only] 40 kg (88 lb) [controller]
Electrical Supply	100 VAC to 140 VAC 20A single phase 50/60 Hz 220 VAC to 240 VAC 10A single phase 50 Hz
Cooling	Temperature-controlled air cooling
Operating Temperature	+10 to +30 °C (+50 to +86 °F)

INTERFACES

Actuator	M6 × 1 right hand central thread 3 × M6 on 57 mm PCD
T-Slot Table	M6 × 1 right hand central thread 3 × M6 holes on 57 mm PCD 6 × M10 holes on 100 mm PCD 4 × M10 holes on a 280 mm x 90 mm accessory rectangle 4 × M6 T-slots spaced 80 mm from center



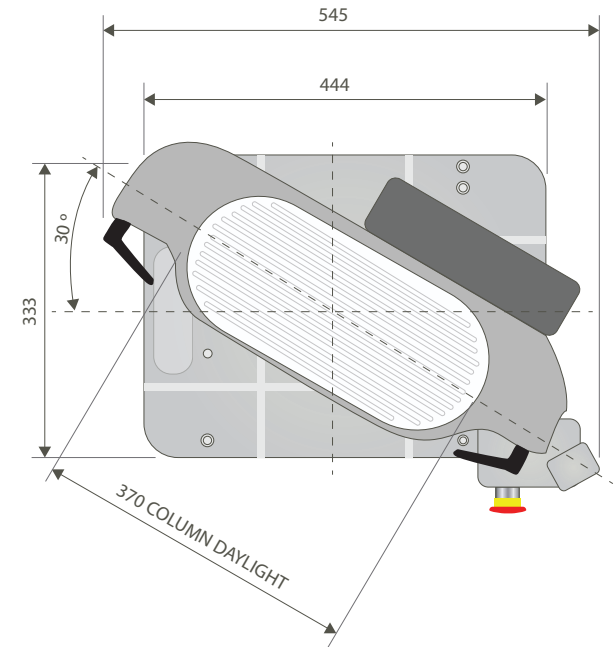
E1000 dimensions front view

Accessories

1300-311	High Stiffness Support Table
1300-151	Horizontal mounting kit for ElectroPuls™ E1000 test instrument
1300-301	Safety Screen for E1000 test instrument
2742-102	±1 kN (±225 lbf) fatigue-rated mechanical wedge grip
2742-103	±1 kN (±225 lbf) fatigue-rated pneumatic wedge grip
2718-013	Pneumatic grip air kit for dynamic systems
CP114160	±3 kN (±675 lbs) Compression Platens



E1000 test instrument in horizontal configuration



E1000 dimensions plan view

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Worldwide Headquarters
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Tel: +44 1494 464646

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Features

- Oil-Free linear motor technology for clean conditions
- The actuator can be unlocked to allow free rotation on the actuator to add flexibility in the tests that require this
- Designed for both dynamic and static testing on a variety of materials and components
- High dynamic performance, capable of performing at over 100 Hz
- ±3000 N dynamic linear load capacity and ±2100 N static load capacity
- Electrically powered from single phase main supply, no need for hydraulic or pneumatic air supplies
- Temperature-controlled air-cooling system
- High-stiffness, precision-aligned twin column load frame with actuator in upper crosshead
- Versatile T-slot table for regular and irregular grips and specimens
- Compact instrument - frame requires less than 0.3 m² (3.2 ft²) of desk space

Hardware and Software Interfaces Designed to Put You in Control

- Console software control interface - engineered with Instron's knowledge of machine usability
- Rigidly mounted control pod with critical controls and emergency stop at your fingertips
- Electrically powered crosshead lift system with manual lever clamps for ease of test space adjustment
- System Status Indicator shows system conditions (off, on, emergency stop, and fault)

Hidden Technology Designed to Improve Your Test

- Patented, stiffness-based loop tuning system
- Unique actuator bearing system that maintains load string alignment when offset or lateral loads are induced by specimens or fixtures
- An optical encoder for precise digital extension control and a dedicated position channel for set up and end of test
- Digital control based on the industry's most advanced controller
- Dynacell advanced load cell technology for faster testing and reduction of inertial errors

A High Level of Versatility

- Readily adjustable test space to suit a wide variety of specimens, grips, fixtures, and accessories
- 60 mm (2.36 in) stroke, for a wide range of tests, as well as ease of specimen set up
- Twin column configuration provides easy access to the test area
- Compatible with WaveMatrix™, Bluehill® Universal* and Application Specific software
- Compatible with a large range of grips, fixtures, chambers, saline baths, video extensometers, and other accessories

*Only supported in desktop mode

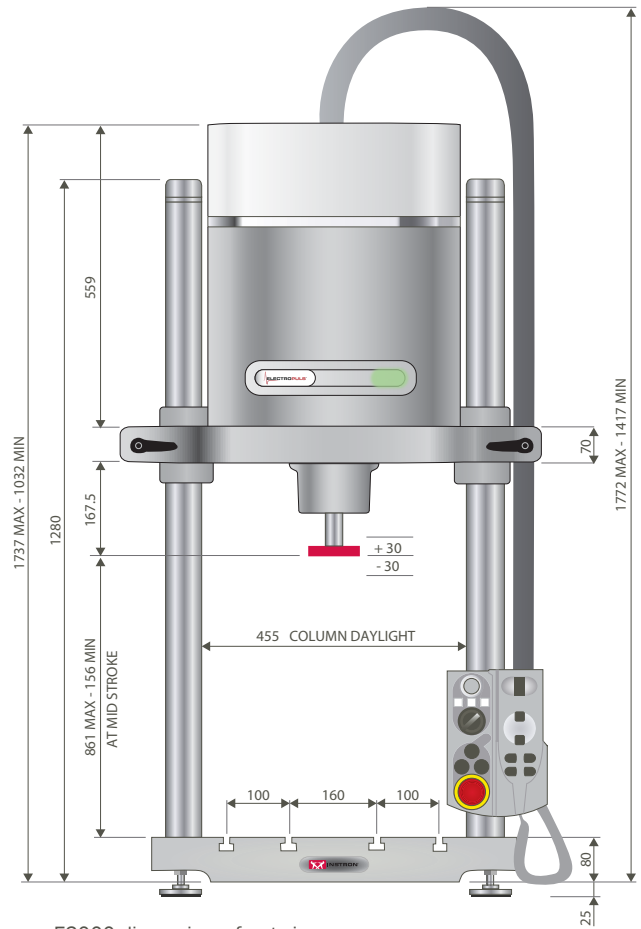


Specifications

Dynamic Capacity	±3000 N (±675 lbf)
Static Capacity	±2100 N (±472 lbf)
Stroke	60 mm (2.36 in)
Load Weighing Accuracy	±0.5 % of indicated load or ±0.005 % of load cell capacity, whichever is greater
Daylight Opening	861 mm (34 in) maximum with actuator at mid stroke
Configuration	Twin-column with actuator in upper crosshead
Mounting	Tabletop: Vertical
Lift and Locks	Electrically powered lifts with manual lever clamps
Load Cell	±5 kN Dynacell™
Weight	240 kg (529 lb) [frame] 42 kg (92.5 lb) [controller]
Electrical Supply	200 VAC to 240 VAC 16A single phase 50/60 Hz
Cooling	Temperature-controlled air cooling
Operating Temperature	+10 to +30 °C (+50 to +86 °F)

INTERFACES

Actuator	3 × M6 on 75 mm PCD 3 × M6 on 57 mm PCD
T-Slot Table	M6 × 1 Right Hand Central Thread 3 × M6 Holes on 75 mm PCD 3 × M6 Holes on 57 mm PCD 6 × M10 Holes on 100 mm PCD 3 × M10 Holes on 125 mm PCD 4 × M10 Holes on a 280 mm x 90 mm Accessory Rectangle 4 × M6 T-slots spaced 80 mm and 100 mm from Centre

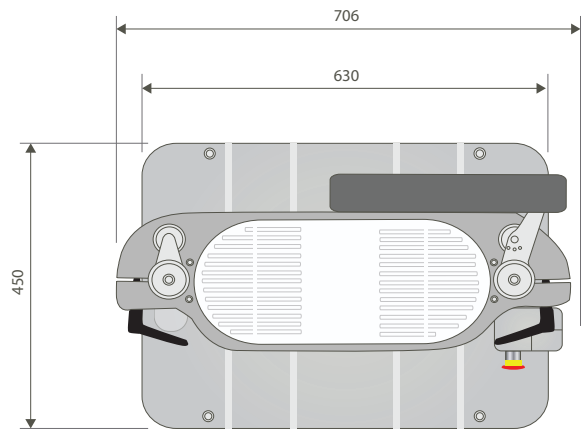


E3000 dimensions: front view

Accessories

1300-304	Safety Screen for E3000 Test Instrument
1300-311	High stiffness Table
2742-206	±3 kN ±25 Nm Linear-Torsion Mechanical Wedge-Action Grips
2810-500	3-Point Bend Fixture
2810-505	4-Point Bend Fixture Conversion Kit
2840-030	10kN Compression Platens
3117-080	ElectroPuls Pullrod kit
3119-605 ¹	Environmental Chamber

Notes: 1. Requires Pull-rods & Mounting Brackets



E3000 dimensions: plan view

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ElectroPuls™ | E3000 Linear-Torsion All-Electric Dynamic Test Instrument

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Features

- Oil-Free linear and rotary motor technology for clean conditions
- De-coupled linear/rotary actuators
- Designed for both dynamic and static testing on a variety of materials and components
- High dynamic performance, capable of performing at over 100 Hz
- ± 3000 N dynamic linear load capacity and ± 25 Nm dynamic torque capacity
- Electrically powered from single phase main supply, no need for hydraulic or pneumatic air supplies
- Temperature-controlled air-cooling system
- High-stiffness, precision-aligned twin column load frame with actuator in upper crosshead
- Versatile T-slot table for regular and irregular grips and specimens
- Compact instrument - frame requires less than 0.3 m² (3.2 ft²) of desk space

Hardware and Software Interfaces Designed to Put You in Control

- Console software control interface - engineered with Instron's knowledge of machine usability
- Rigidly mounted control pod with critical controls and emergency stop at your fingertips
- Electrically powered crosshead lift system with manual lever clamps for ease of test space adjustment
- System Status Indicator shows system conditions (off, on, emergency stop, and fault)

Hidden Technology Designed to Improve Your Test

- Patented, stiffness-based loop tuning system in both axes
- Unique actuator bearing system that maintains load string alignment when offset or lateral loads are induced by specimens or fixtures
- An optical encoder for precise digital extension control and a dedicated position channel for set up and end of test
- Digital two-axis control based on the industry's most advanced controller
- Dynacell advanced load cell technology for faster testing and reduction of inertial errors

A High Level of Versatility

- Readily adjustable test space to suit a wide variety of specimens, grips, fixtures, and accessories
- 60 mm (2.36 in) linear stroke, $\pm 135^\circ$ or ± 16 revolutions, for a wide range of tests, as well as ease of specimen set up
- Twin column configuration provides easy access to the test area
- Compatible with WaveMatrix™, Bluehill® Universal* and Application Specific software
- Compatible with a large range of grips, fixtures, chambers, saline baths, video extensometers, and other accessories

*Only supported in desktop mode

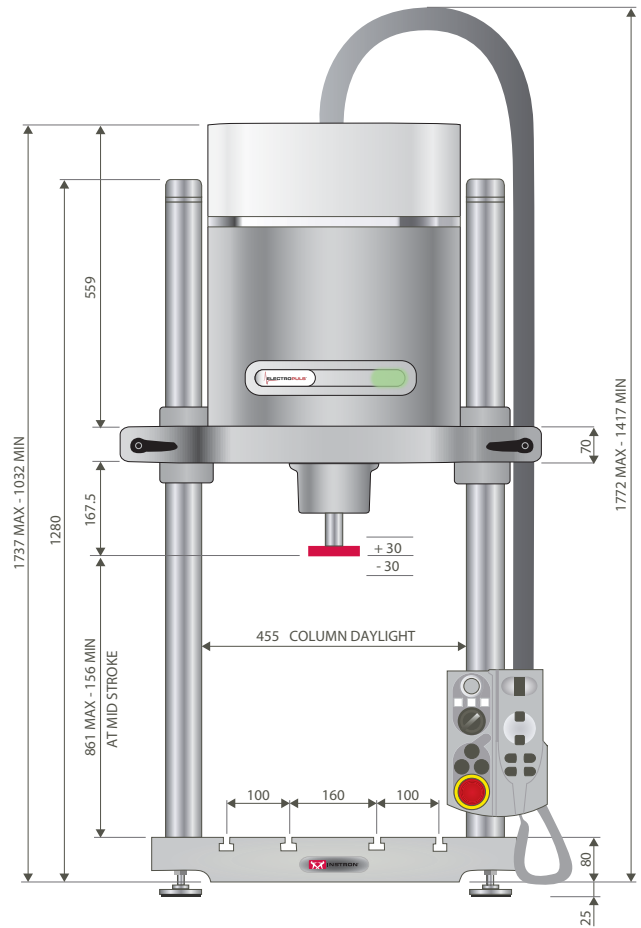


Specifications

Linear Dynamic Capacity	±3000 N (±675 lbf)
Linear Static Capacity	±2100 N (±472 lbf)
Torsional Dynamic	±25 Nm (±221 in-lb)
Torsional Static Capacity	±18 Nm (±157 in-lb)
Stroke	60 mm (2.36 in)
Rotation	±135° or ±16 revolutions; user configurable
Load and Torque Weighing Accuracy	±0.5 % of indicated load or torque, or ±0.005 % of load cell capacity, whichever is greater
Daylight Opening	861 mm (34 in) maximum with actuator at mid stroke
Configuration	Twin-column with actuator in upper crosshead
Mounting	Tabletop: Vertical
Lift and Locks	Electrically powered lifts with manual lever clamps
Load Cell	±5 kN ±25 Nm Dynacell™
Weight	250 kg (551 lb) [frame] 70 kg (154 lb) [controller]
Electrical Supply	200 VAC to 240 VAC 32A single phase 50/60 Hz
Cooling	Temperature-controlled air cooling
Operating Temperature	+10 to +30 °C (+50 to +86 °F)

INTERFACES

Actuator	3 × M6 on 75 mm PCD 3 × M6 on 57 mm PCD
T-Slot Table	M6 × 1 Right Hand Central Thread 3 × M6 Holes on 75 mm PCD 3 × M6 Holes on 57 mm PCD 6 × M10 Holes on 100 mm PCD 3 × M10 Holes on 125 mm PCD 4 × M10 Holes on a 280 mm x 90 mm Accessory Rectangle 4 × M6 T-slots spaced 80 mm and 100 mm from Centre

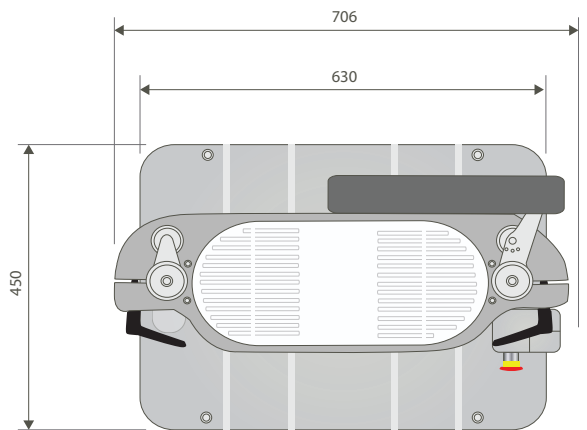


E3000 dimensions: front view

Accessories

1300-304	Safety Screen for E3000 Test Instrument
1300-311	High stiffness Table
2527-203	±1 kN (225 lbf) ±25 Nm (220 in-lb) Biaxial Dynacell
2742-206	±3 kN ±25 Nm Linear-Torsion Mechanical Wedge-Action Grips
2810-500	3-Point Bend Fixture
2810-505	4-Point Bend Fixture Conversion Kit
2840-030	10kN Compression Platens
3117-080	Electropuls Pullrod kit
3119-605 ⁺	Environmental Chamber

Notes: 1. Requires Pull-rods & Mounting Brackets



E3000 dimensions: plan view

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Features

- Oil-Free linear motor technology for clean conditions
- Designed for both dynamic and static testing on a variety of materials and components
- High dynamic performance, capable of performing up to 100 Hz
- Up to ± 10 kN dynamic load capacity and ± 7 kN static capacity
- Electrically powered from single phase main supply, no need for hydraulic or pneumatic air supplies
- Temperature-controlled air-cooling system
- High-stiffness, precision-aligned twin column load frame with actuator in upper crosshead
- Versatile T-slot table for regular and irregular grips and specimens
- Compact instrument - frame requires less than 0.8 m² (8.6 ft²) of floor space

Hardware and Software Interfaces Designed to Put You in Control

- Console software control interface - engineered with Instron's knowledge of machine usability
- Rigidly mounted control pod with critical controls and emergency stop at your fingertips
- Electrically powered crosshead lift system with manual lever clamps for ease of test space adjustment
- System Status Indicator shows system conditions (off, on, emergency stop, and fault)

- Clamp status indicators ensure that the minimum amount of clamping force is applied to the crosshead before starting a test

Hidden Technology Designed to Improve Your Test

- Patented, stiffness-based loop tuning system in both axes
- Unique actuator bearing system that maintains load string alignment when offset or lateral loads are induced by specimens or fixtures
- An optical encoder for precise digital extension control and a dedicated position channel for set up and end of test
- Digital controller based on the industry's most advanced controller
- Dynacell advanced load cell technology for faster testing and reduction of inertial errors

A High Level of Versatility

- Readily adjustable test space to suit a wide variety of specimens, grips, fixtures, and accessories
- 60 mm (2.36 in) linear stroke for a wide range of tests, as well as ease of specimen set up
- Twin column configuration provides easy access to the test area
- Compatible with WaveMatrix™, Bluehill® Universal® and Application Specific software
- Compatible with a large range of grips, fixtures, chambers, saline baths, video extensometers, and other accessories



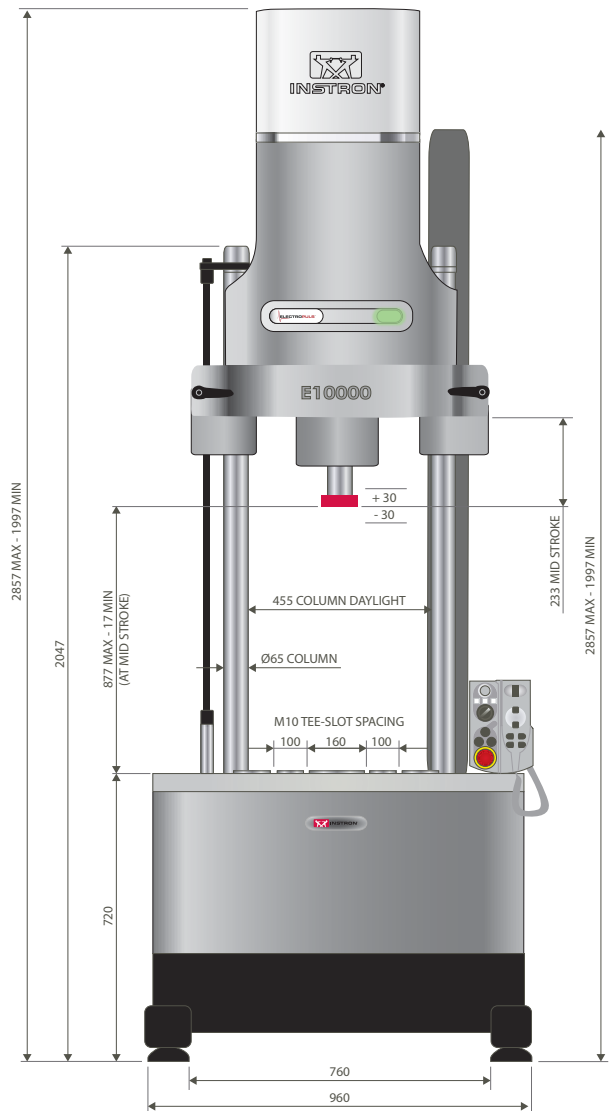
Specifications

Dynamic Capacity	±10 kN (±2250 lbf)
Static Capacity	±7 kN (±1570 lbf)
Stroke	60 mm (2.36 in)
Load Weighing Accuracy	±0.5 % of indicated load or ±0.005 % of load cell capacity, whichever is greater
Daylight Opening	877 mm (34.5 in) maximum with actuator at mid stroke
Configuration	Twin-column with actuator in upper crosshead
Mounting	Floor: Vertical
Lift and Locks	Electrically powered lifts with manual lever clamps
Load Cell	±10 kN Dynacell™ mounted to base
Weight	950 kg (2095 lb) [frame] 22 kg (48 lb) [controller]
Electrical Supply	208 VAC to 240 VAC 32A single phase 50/60 Hz
Cooling	Temperature-controlled air cooling
Operating Temperature	+10 to +30 °C (+50 to +86 °F)
INTERFACES	
Actuator	M20 × 1.5 central thread 6 × M8 on 75 mm PCD 6 × M8 clearance holes on 75 mm PCD
T-Slot Table	M12 × 1 right hand central thread 3 × M6 holes on 57 mm PCD 6 × M10 holes on 100 mm PCD 3 × M10 holes on 125 mm PCD 4 × M10 holes on a 280 mm × 90 mm accessory rectangle 4 × M6 T-slots spaced 80 mm from center

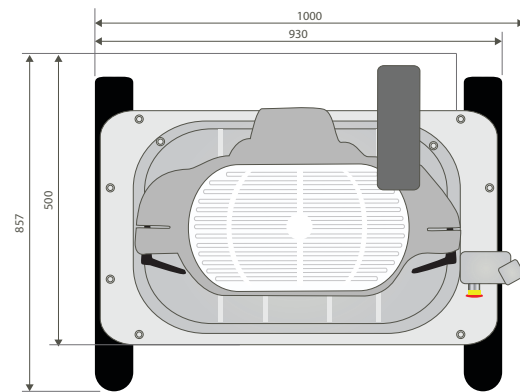
Accessories

1300-303	Safety screen for E10000 Test Instrument
2718-012 ¹	High-Pressure Pneumatic grip air kit for E10000
2718-014 ²	High-Pressure Pneumatic grip air kit for E10000
2742-206	±3 kN ±25 Nm Linear-Torsion Mechanical Wedge-Action Grips
2742-304	±10 kN (±2250 lbf) fatigue-rated Pneumatic Mechanical Wedge Grips
2840-030	±10 kN Compression Platens
2810-500	3-Point Bend Fixture
2810-505	4-Point Bend Conversion Kit
3117-080	Electropuls pullrod Kit
3119-605 ³	Environmental Chamber

Notes: 1. Only compatible with 8800 Tower Controller
2. Only compatible with 8800MT Controller
3. Requires Pull-rods & Mounting Brackets



E10000 dimensions: front view



E10000 dimensions: plan view

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Features

- Oil-Free linear and rotary motor technology for clean conditions
- De-coupled linear/rotary actuators
- Designed for both dynamic and static testing on a variety of materials and components
- High dynamic performance, Capable of performing up to 100 Hz
- ± 10 kN dynamic linear load capacity and ± 100 Nm dynamic torque capacity
- Electrically powered from single phase main supply, no need for hydraulic or pneumatic air supplies
- Temperature-controlled air-cooling system
- High-stiffness, precision-aligned twin column load frame with actuator in upper crosshead
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A High Level of Versatility

- Readily adjustable test space to suit a wide variety of specimens, grips, fixtures, and accessories
- 60 mm (2.36 in) linear stroke, $\pm 135^\circ$ rotation for a wide range of tests, as well as ease of specimen set up
- Twin column configuration provides easy access to the test area
- Compatible with WaveMatrix™, Bluehill® Universal* and Application Specific software
- Compatible with a large range of grips, fixtures, chambers, saline baths, video extensometers, and other accessories

*Only supported in desktop mode



Specifications

Linear Dynamic Capacity	±10 kN (±2250 lbf)
Linear Static Capacity	±7 kN (±1570 lbf)
Torsional Capacity	±100 Nm (±800 in-lb)
Stroke	60 mm (2.36 in)
Rotation	±135° as standard, ±16 revolutions
Load and Torque Weighing Accuracy	±0.5 % of indicated load or torque, or ±0.005 % of load cell capacity, whichever is greater
Daylight Opening	877 mm (34.5 in) maximum with actuator at mid stroke
Configuration	Twin-column with actuator in upper crosshead
Mounting	Floor: Vertical
Lift and Locks	Electrically powered lifts with manual lever clamps
Load Cell	±10 kN ±100 Nm Dynacell™ mounted to base
Weight	994 kg (2190 lb) [frame] 40 kg (88 lb) [controller]
Electrical Supply	208 VAC to 240 VAC 32A single phase 50/60 Hz
Cooling	Temperature-controlled air cooling
Operating Temperature	+10 to +30°C (+50 to +86°F)

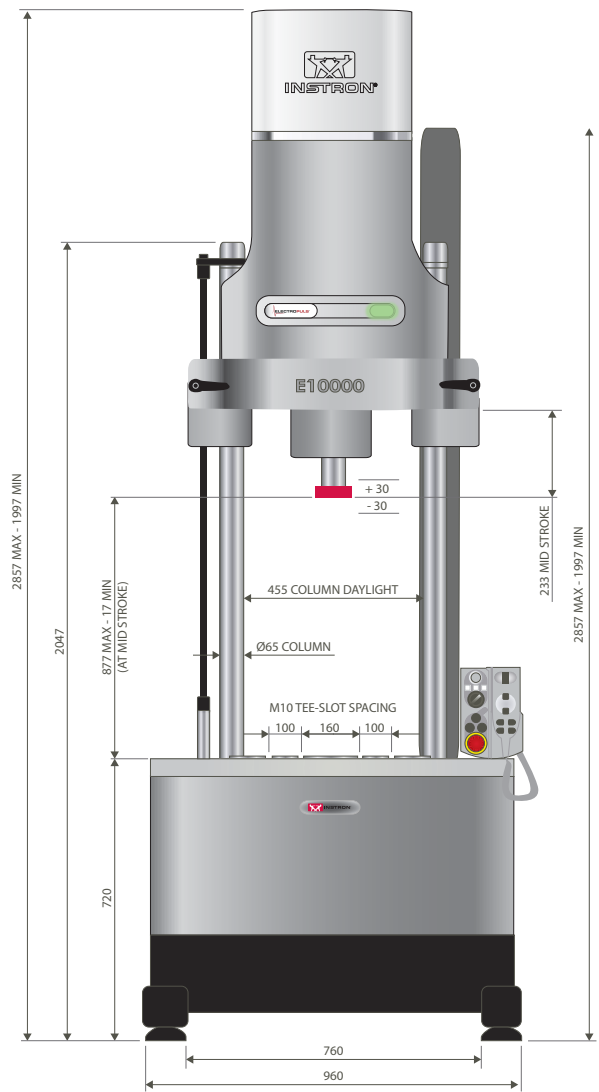
INTERFACES

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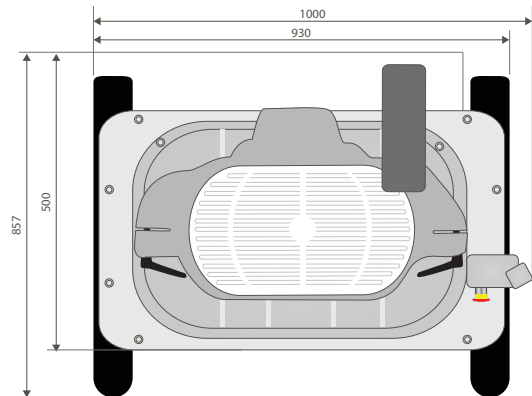
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2742-206	±3 kN ±25 Nm Linear-Torsion Mechanical Wedge-Action Grips
2742-305	±10 kN ±100 Nm Linear-Torsion Pneumatic Wedge-Action Grips
3117-080	Electropuls Pullrod kit
3119-605 ³	Environmental Chamber
2810-500	3-Point Bend Fixture
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2840-030	10 kN Compression Platens

Notes: 1. Only compatible with 8800 Tower Controller
2. Only compatible with 8800MT Controller
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E10000 Linear-Torsion dimensions: front view



E10000 Linear-Torsion dimensions: plan view

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