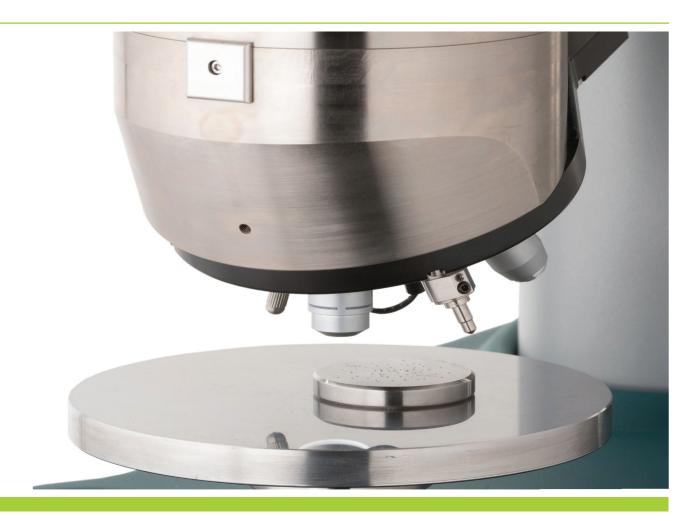


The first name in materials testing

Evotech 7*** Series

Universal hardness testing system



Features:

- Automatic
- Multiple load cells
- Closed loop
- Advanced force sensor

Test types:

- Rockwell
- Superficial rockwell
- Vickers, Knoop
- Brinell









Universal systems of Evotech series

Universal hardness testing systems are versatile instruments used to measure the hardness of materials. They can perform a variety of hardness tests, including Brinell, Vickers, Rockwell, Superficial rockwell and Knoop, as well as tests for plastics and carbon testing. These machines support a wide load range, typically from 0.3 to 3,000 kg, to accommodate different materials and component geometries across various industries.

One significant advantage of these machines is their ability to quickly switch between individual test methods without extensive machine conversion. This makes them a flexible solution for testing the hardness of a wide range of materials in both laboratory and production environments. The key components of a universal hardness testing machine include:

- Load Application Feature: This is the mechanism that applies force to the indenter, which in turn presses into the material being tested.
- Indenter: A hard object, often made of diamond or another hard material, that is pressed into the material to create an indentation.
- Test Anvil: A support platform on which the test material is placed.
- Optical Evaluation System: Used for examining the indentation made by the indenter to measure hardness.
- Depth Measurement System: Measures the depth of the indentation, which is crucial for certain types of hardness tests.

These components work together to determine the hardness of a material by measuring its resistance to deformation under a standardized force. The universal nature of these machines allows them to perform multiple types of hardness tests, making them a versatile tool in material science and quality control processes.



Model Evotech 701*









The model Evotech 701*, Rockwell, Vickers, Knoop and Brinell hardness tester provides exceptional performance, designed to match the most demanding user tasks. This tester contains a revolutionary force application range and renewed optical system.

The all new 9 position turret accommodates a wide range of indenters, indenter actuators with load cells, objectives, a cross-laser positioning system and a load cell supported touch probe. It also provides a base to the 18 megapixel full color measurement camera and 18 megapixel full color overview camera with variable

field of view, motorized zoom and auto focus system.

Features and benefits

- Multi load cell, closed loop, force control
- Load range 10gf-3000kgf (0.1N-30kN)*
- Meets or exceeds ISO, ASTM and JIS standards
- 9 position tool changer (turret) with visual LED process indicators
- 18 megapixel full color measurement camera, bright white LED TTL illumination
- 18 megapixel full color sample image & stage overview
 camera
- Automatic workpiece height detection
- Top quality ABS replaceable body parts, no frame damage from falling objects
- Horizon high performance PC-based camera indent measuring system. Automatic measurement of the indent on the industrial touch screen. Archive file, handle images and data on the tester or your network

* Configurations - as per table below



MODEL DETAILS

EV-051-7010 0.2-250kgf EV-051-7012 0.2-750kgf EV-051-7014 0.2-3000kgf

Rockwell, Vickers, Knoop, Brinell Rockwell, Vickers, Knoop, Brinell Rockwell, Vickers, Knoop, Brinell

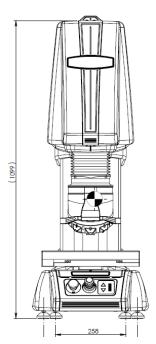
Specifications

| | EV 7010 Specifications |
|----------------------------|---|
| Item # | EV-051-7010, EV-051-7012, EV-051-7014 |
| Hardness scales | Vickers, Knoop, Brinell, Rockwell |
| Load application | Load cell, force feedback, closed loop system |
| Load range | 10gf-3000kgf |
| Motorized turret | 9 positions: 8 free to configure (8 for indenters or 8 for objectives), 1 fixed (for cross laser & touch probe), |
| Optical system | High definition, 18MP machine vision system |
| Objectives | 0.7x, 2.5x, 5x, 10x, 20x, 40x, 60x, 100x |
| Overview camera (optional) | 18MP optical zoom camera, field of view 40x30mm / 140x100mm |
| Electronic system | High performance embedded micro system controller, MS windows®, 27" full color industrial touchscreen, automatic and manual measurement |
| Test loads | 10, 15, 20, 25, 50, 100, 200, 300, 500gf 1, 1.25, 2, 2.5, 3, 4, 5, 6.25, 7.8125, 10, 15, 15.625, 20, 30, 31.25, 40, 50, 60, 62.5, 80, 100, 120, 125, 150, 187.5, 250kgf |
| Brinell test range | HBW1/1, 1/1.25, 1/2.5, 1/5, 1/10, 1/30 HBW2.5/6.25, 2.5/15.625, 2.5/31.25, 2.5/62.5, 2.5/187.5 HBW5/25, 5/31.25, 5/62.5, 5/125, 5/250, 5/750 HBW10/100, 10/125, 10/250,10/500, 10/1000, 10/1500, 10/3000 |
| Vickers test range | HV0.010, 0.015, 0.020, 0.025, 0.050, 0.1, 0.2, 0.3, 0.5, 1, 2, 2.5, 3, 4, 5, 10, 20, 25, 30, 40, 50, 60, 100, 120, 150 |

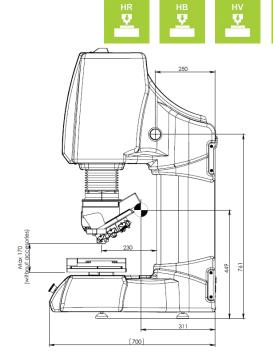
| | | Evotech 701* force configuration option | ıs |
|-------------------|----------------------------------|--|-------------|
| ce ge Ision | Force range extension 10 - 200gf | EV-051-0001 | |
| For | ran | Force range extension 250 - 750kgf (EV-051-7010 model only) | EV-051-0002 |
| | | | |

STANDARD ACCESSORIES

- 18MP HD indent viewing camera
- Descending test head with collisio detection
- Four vibration dampers
- Power cable
- Certificate of calibration
- Installation and user manual
- Keyboard & Mouse



| | EV 7010 Specifications | | | |
|---|--|--|--|--|
| Knoop test range | HK0.01, 0.02, 0.025, 0.05, 0.1, 0.2, 0.3, 0.5, 1, 2, 5 | | | |
| Rockwell pre and main load | 10kgf and 60, 100, 150kgf | | | |
| Superficial rockwell pre and main load | 3kgf and 15, 30, 45kgf | | | |
| Rockwell scales | A, B, C, D, E, F, G, H, K, L, M, P, R, S, V | | | |
| Superficial rockwell scales | 15N, 30N, 45N, 15T, 30T, 45T, 15W, 30W, 45W, 15X, 30X, 45X, 15Y, 30Y, 45Y | | | |
| Test cycles | Fully automatic, automatic and manual | | | |
| Standards | complies to or exceeds ISO, ASTM, JIS (Nadcap) | | | |
| Test for accuracy | <0.25% for test force 100gf to 3000kgf <0.5% for test force below 100gf | | | |
| Display resolution | 0.01HV, HK and HB | | | |
| Hardness conversion | Rockwell, Superficial Rockwell, Vickers, Brinell, Knoop, Leeb & Tensile | | | |
| Statistics | Total test, max, min, average, range, standard deviation, all in real time after each test | | | |
| Data storage capacity | Internal and external mSSD, SSD or HDD | | | |
| Connectivity | 5 USB ports, RJ45 ethernet, LAN, W-LAN, RS232, Bluetooth, 5-axis CNC and motorized XY stage connector, Dual HDMI screen connectors | | | |
| Dwell time setting | Default 10 seconds, user defined | | | |
| Workpiece accommodation | 150 x 230mm (HxD) | | | |
| Machine dimensions | 695 x 425 x 1100mm (WxDxH) | | | |
| Weight | 180kg (397lb) | | | |
| Operating temp. | 10-35°C (50-95°F) non-condensing | | | |
| Power consumption | 100W | | | |
| Power supply | 100-240V AC, 50Hz/60Hz, single phase | | | |
| Humidity | 10-90%, non-condensing | | | |
| *Calibration of scales is required prior to use. Please specify desired scales at | | | | |



Model Evotech 702*

The model Evotech 702* is a heavy duty, rock solid C-frame with supreme rigidity. The closed loop system based on a load cell and Rockwell, Superficial Rockwell, Vickers, Knoop, Brinell, Ball indentation, HVT and HBT scales are part of testing capabilities.

The test force ranges from 200gf to 3000kgf and test cycles can be automatic or manual. With motorized 9 position turret, descending test head capable of workpiece detection, it is one of the most loaded technological hardness tester. 22" industrial touch screen and PC based Horizon software added advantage for this equipment.

Features and benefits

the time of ordering

- Multi load cell, closed loop, force feedback system
- Load range 200gf-3000kgf (1.96-30kN)
- Meets or exceeds ISO, ASTM and JIS standards
- 9 position (turret) with visual LED process indicators
- Descending test head with automatic workpiece detection
- 18Mpx measurement camera & 18Mpx overview camera
- High definition optical system for images of 0.7x to 1000x magnification

- PC based Horizon Hardness testing firmware and database file system, standard
- Large, adjustable 22" industrial touch screen
- Automatic or manual focus, manual or fully automatic indent measurement, standard
- Testing procedure and results storage on embedded hard drive
- LAN, WLAN, USB-2, RS232, printer and DVI connectivity, standard
- On board built-in driver for (optional) motorized XY stage, standard
- * Configurations as per table below

MODEL DETAILS

EV-091-7020 0.5-250kgf Rockwell, Vickers, Knoop, Brinell
EV-091-7022 3-750kgf Rockwell, Vickers, Knoop, Brinell
EV-091-7024 5-3000kgf Rockwell, Vickers, Knoop, Brinell
EV-091-7026 3-3000kgf Rockwell, Brinell

| | Evotech 702* force configuration options | |
|------------------------|--|-------------|
| ge | Force range extension 200 - 500gf | EV-091-0001 |
| Force ran extension | Force range extension 200gf - 3kgf | EV-091-0002 |
| | Force range extension 1 - 5kgf | EV-091-0003 |
| | Force range extension 200gf - 5kgf | EV-091-0004 |

STANDARD ACCESSORIES

- Motorized turret with 8 positions including cross laser touch probe
- Built-in 3 axis support driver
- Power cable
- Certificate
- Installation and user manual
- Keyboard & Mouse

Specifications

| | EV 702* specifications |
|--|---|
| Item # | EV-091-7020, EV-091-7022, EV-091-7024, EV-091-7026 |
| Hardness scales | Rockwell, Superficial Rockwell, Vickers, Knoop, Brinell, Ball indentation, HVT, HBT |
| Load application | Load cell, force feedback, closed loop system |
| Load range | 200gf-3000kgf |
| Motorized turret | 9 positions: 8 free to configure (8 for indenters or 8 for objectives), 1 fixed (for cross laser & touch probe), |
| Objectives | 0.7x, 2.5x, 5x, 10x, 20x |
| Indenters | Rockwell diamond cone: 120° Rockwell balls: 1/16in, 1/8in, 1/4in, 1/2in Brinell balls: 1mm, 2.5mm, 5mm, 10mm |
| Display | 22" full color industrial touchscreen, testing results, statistics |
| Optical system | High definition 18MP machine vision system |
| Display resolution | 0.01HV, HK, HB |
| Standards | Meets or exceeds ISO, ASTM, JIS standards |
| Test cycles | Motorized, automatic, pre-load, load, dwell, unload process |
| Brinell test scales | HBW1/1, 1/1.25, 1/2.5, 1/5, 1/10, 1/30, 1/31.25 HBW2.5/6.25, 2.5/15.625, 2.5/31.25, 2.5/62.5, 2.5/187kgf HBW5/25, 5/31.25, 5/62.5, 5/125, 5/250, 5/750 HBW10/100, 10/125, 10/250,10/500, 10/1000, 10/1500, 10/3000 |
| HVD (HVT) | HV5,10, 20, 25, 30, 40, 50, 60, 100, 120, 150 |
| HBD (HBT) | HBT1/5, 1/10, 1/30kgf HBT2.5/6.25, 2.5/15.625, 2.5/31.25, 2.5/62.5kgf HBT5/25, 5/31.25, 5/62.5, 5/125kgf HBT10/100, 10/125kgf |
| Vickers test range | HV0.2, 0.3, 0.5, 1, 2, 2.5, 3, 4, 5, 10, 20, 25, 30, 40, 50, 60, 100, 120, 150 |
| Knoop test range | HK0.2, 0.3, 0.5, 1, 2, 5 |
| Rockwell pre and main load | 10kgf and 60, 100, 150kgf |
| Superficial rockwell pre and main load | 3kgf and 15, 30, 45kgf |
| Rockwell test scales available | A, B, C, D, E, F, G, H, K, L, M, P, R, S, V |

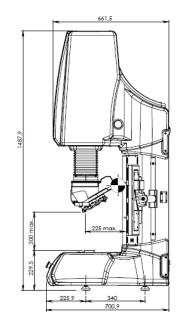


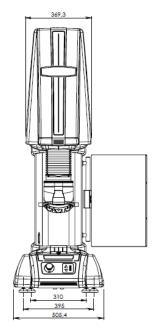












| EV 702* specifications | | | |
|---|---|--|--|
| Superficial Rockwell scales available | 15N, 30N, 45N, 15T, 30T, 45T, 15W, 30W, 45W, 15X, 30X, 45X, 15Y, 30Y, 45Y | | |
| Connectivity | LAN, W-LAN, USB-3, Bluetooth (optional) | | |
| Workpiece accommodation | 300 x 225mm (HxD) | | |
| Machine dimensions | 510 x 710 x 1500 mm (WxDxH) | | |
| Weight | 280kg (617lb) | | |
| Test force tolerance | <0.25% | | |
| Operating temp. | 5-40°C (41-104°F) non-condensing | | |
| Power supply | 100-240V AC, 50Hz/60Hz, single phase | | |
| Humidity | 10-90%, non-condensing | | |
| *Calibration of scales is required prior to use. Please specify desired scales at the time of ordering | | | |

Model Evotech 705*









The model Evotech 705* is a heavy duty, rock solid C-frame with supreme rigidity. The closed loop system based on a load cell and Rockwell, Vickers, Knoop, Brinell, Ball indentation, HVT and HBT scales are part of testing capabilities.

The test force ranges from 200gf to 3000kgf and test cycles can be automatic or manual. With motorized Z axis, descending test head capable of workpiece detection and motorized 8 position turret, it is one of the most loaded technological Hardness tester. 15" industrial touch screen and PC based Horizon software added advantage for this equipment.

Features and benefits

- Load cell, closed loop, force feedback system
- Load range 200gf-3000kgf (2N-30kN)
- Meets or exceeds ISO, ASTM and JIS standards
- Z-axis with ball bearing spindle
- Descending test head with automatic workpiece detection
- 3 indenter positions, 3 LWD objectives installed (included)
- High definition optical system for images of 0.7x to 1000x magnification
- PC based Horizon hardness testing firmware and database file system, standard
- Large, adjustable 15" industrial touch screen
- Automatic or manual focus, manual or fully automatic indent measurement, standard
- Testing procedure and results storage on embedded hard
 drive
- LAN, WLAN, USB-2, RS232, printer and DVI connectivity, standard
- On board built-in driver for (optional) motorized XY stage, standard
- Free definable test patterns case depth, traverse, free style, etc, optional
- Raise and lower up to 800kg specimen (standard)

MODEL DETAILS

EV-096-7050 0.5-250kgf EV-096-7052 0.2-250kgf EV-096-7054 5-3000kgf EV-096-7056 0.2-3000kgf

Rockwell, Vickers, Knoop, Brinell Rockwell, Vickers, Knoop, Brinell Rockwell, Vickers, Knoop, Brinell Rockwell, Vickers, Knoop, Brinell

Evotech 705* force configuration options

High force extension

High force extension 500kgf & 750kgf for Brinell and ball indentation (EV-096-7052)

FH-500-0033

Specifications

| | EV705* specifications |
|--------------------|--|
| Item # | EV-096-7050, EV-096-7052, EV-096-7054, EV-096-7056 |
| Hardness scales | Rockwell, Vickers, Knoop, Brinell, Ball indentation, HVT, HBT |
| Load application | Load cell, force feedback, closed loop system |
| Load range | 0.2-3000kgf |
| Motorized turret | 8 position, 3 indenter, 3 objective positions |
| Objectives | 0.7x, 2.5x, 5x, 10x, 20x, 40x, 60x, 100x |
| Indenters | Rockwell Diamond cone: 120° Rockwell balls: 1/16in, 1/8in, 1/4in, 1/2in Brinell balls: 1mm, 2.5mm, 5mm, 10mm |
| Display | 15" full color industrial touchscreen, testing results, statistics |
| Optical system | High definition 18MP machine vision system |
| Display resolution | 0.01HV, HK, HB |
| Standards | Meets or exceeds ISO, ASTM, JIS standards |

STANDARD ACCESSORIES

- T-slot testing table 650x500mm
- Motorized turret with 8 positions including cross laser touch probe.
- Objectives for 0.7x, 2.5x and 10x magnification
- Built-in 3 axis support driver
- Power cable
- Certificate
- Installation and user manual
- Keyboard & Mouse

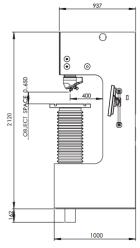


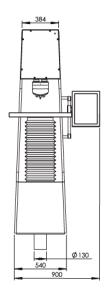






| | EV705* specifications |
|--|--|
| Test cycles | Motorized, automatic, pre-load, load, dwell, unload process |
| Rockwell pre and main load | 10kgf and 60, 100, 150kgf |
| Superficial rockwell pre and main load | 3kgf and 15, 30, 45kgf |
| Rockwell test scales available | A, B, C, D, E, F, G, H, K, L, M, P, R, S, V |
| Superficial Rockwell scales available | 15N, 30N, 45N, 15T, 30T, 45T, 15W, 30W, 45W, 15X, 30X, 45X, 15Y, 30Y, 45Y |
| Brinell test scales | HBW1/1, 1/1.25, 1/2.5, 1/5, 1/10, 1/30kgf HBW2.5/6.25, 2.5/15.625, 2.5/31.25, 2.5/62.5, 2.5/187kgf HBW5/25, 5/31.5, 5/62.5, 5/125, 5/187.5, 5/250kgf HBW10/100, 10/125, 10/250, 10/750, 10/1000, 10/1500, 10/3000kgf |
| HVD (HVT) | HV0.2, 0.3, 0.5, 1, 2, 2.5, 3, 4, 5, 10, 20, 25, 30, 40, 50, 100, 120, 150 |
| HBD (HBT) | HBT1/1, 1/1.25, 1/2.5, 1/5, 1/10, 1/30kgf HBT2.5/6.25, 2.5/15.625, 2.5/31.25, 2.5/62.5, 2.5/187.5kgf HBT5/25, 5/31.25, 5/62.5, 5/125, 5/187.5, 5/250kgf HBT10/100, 10/125, 10/250, 10/750, 10/1000, 10/1500, 10/3000kgf |
| Vickers test range | HV0.2, 0.3, 0.5, 1, 2, 2.5, 3, 4, 5, 10, 20, 25, 30, 40, 50, 60, 100, 120, 150 |
| Connectivity | LAN, W-LAN, USB-3, Bluetooth (optional) |
| Workpiece accommodation | 650 x 395mm (HxD) |
| Machine dimensions | 540 x 1000 x 2120 mm (WxDxH) |
| Weight | 800kg (1764lb) |
| Test force tolerance | <0.25% |
| Operating temp. | 5-40°C (41-104°F) non-condensing |
| Power supply | 100-240V AC, 50Hz/60Hz, single phase |
| Humidity | 10-90%, non-condensing |
| *Calibration of scales time of ordering | is required prior to use. Please specify desired scales at the |





Model Evotech 708*

The model Evotech 708* is a large radial frame that allows testing either on the machine base or beside it. The heavy-duty test head easily pivots, ensuring seamless positioning of workpieces without any hindrance. Forget the hassle of manual workpiece adjustments. Use a crane or forklift truck to effortlessly position your parts. With its unique dual Z-axis, this tester provides an impressive range of test scales. From Vickers 500gf to Brinell 3000kgf, this tester can determine the hardness of objects ranging from small to remarkably large. The standard delivered removable cast iron block stage makes it convenient to test smaller parts at an ergonomic working height, ensuring precision and ease of use.

Features and benefits

- Multi load cell, closed loop system, force feedback system
- Load range 200gf-3000kgf (2N-30kN)
- Meets or exceeds ISO, ASTM and JIS standards
- Z-axis with ball bearing spindle
- Descending test head with automatic workpiece detection
- 9 position turret with visual LED process indicators
- 18MP measurement camera+18MP overview camera
- PC based Horizon hardness testing firmware and database file system, standard

- Large, adjustable 22" industrial touch screen
- Automatic or manual focus, manual or fully automatic indent measurement, standard
- Testing procedure and results storage on embedded hard drive
- LAN, WLAN, USB-2, RS232, printer and DVI connectivity, standard
- On board built-in driver for (optional) motorized XY stage, standard
- Free definable test patterns case depth, traverse, free style, etc, optional

MODEL DETAILS

 EV-098-7080
 0.5-250kgf
 Rockwell, Vickers, Knoop, Brinell

 EV-098-7082
 0.2-250kgf
 Rockwell, Vickers, Knoop, Brinell

 EV-098-7084
 5-3000kgf
 Rockwell, Vickers, Knoop, Brinell

 EV-098-7086
 0.2-3000kgf
 Rockwell, Vickers, Knoop, Brinell

 EV-098-7088
 3-3000kgf
 Rockwell, Brinell

Evotech 708* force configuration options

High force extension

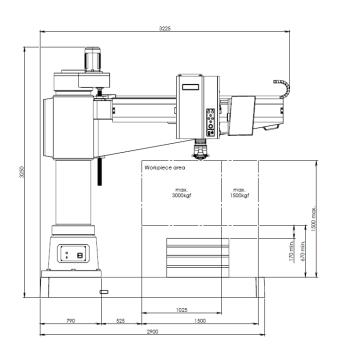
High force extension 500kgf & 750kgf for FH-500-0033 Brinell and ball indentation (EV-098-7082)

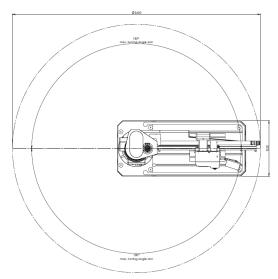
STANDARD ACCESSORIES

- Motorized turret with 9 positions
- Power cable
- Certificate
- Installation and user manual
- Keyboard & Mouse

| Keyboard & | Mouse |
|--|--|
| | EV708* specifications |
| Item # | EV-098-7080, EV-098-7082, EV-098-7084, EV-098-7086, EV-098-708 |
| Hardness scales | Rockwell, Vickers, Knoop, Brinell, Ball indentation, HVT, HBT |
| Load application | Load cell, force feedback, closed loop system |
| Load range | 200gf - 3000kgf |
| Motorized turret | 9 positions: 8 free to configure (8 for indenters or 8 for objectives), 1 fixed (for cross laser & touch probe), |
| Objectives | 0.7x, 2.5x, 5x, 10x, 20x |
| Indenters | Rockwell Diamond cone: 120° Rockwell balls: 1/16in, 1/8in, 1/4in, 1/2in Brinell balls: 1mm, 2.5mm, 5mm, 10mm |
| Display | 22" full color industrial touchscreen, testing results, statistics |
| Optical system | HD 18MP machine vision system; 18MP overview camera |
| Display resolution | 0.01HV, HK, HB |
| Standards | Meets or exceeds ISO, ASTM, JIS standards |
| Test cycles | Motorized, automatic, pre-load, load, dwell, unload process |
| Rockwell pre and main load | 10kgf and 60, 100, 150kgf |
| Superficial rockwell pre and main load | 3kgf and 15, 30, 45kgf |
| Rockwell test scales | A,B,C,D,E,F,G,H,K,L,M,P,R,S,V |
| Superficial Rockwell scales available | 15N, 30N, 45N, 15T, 30T, 45T, 15W, 30W, 45W, 15X, 30X, 45X, 15Y, 30Y, 45Y |
| Brinell test scales | HBW1/1, 1/1.25, 1/2.5, 1/5, 1/10, 1/30, 1/31.25kgf HBW2.5/6.25, 2.5/15.625, 2.5/31.25, 2.5/62.5, 2.5/187kgf HBW5/25, 5/31.5, 5/62.5, 5/125, 5/250, 5/750kgf HBW10/100, 10/125, 10/250, 10/500, 10/1000, 10/1500, 10/3000kgf |
| HVD (HVT) | HV5, 10, 20, 25, 30, 40, 50, 60, 100, 120, 150 |
| HBD (HBT) | HBT1/5, 1/10, 1/30kgf HBT2.5/6.25, 2.5/15.625, 2.5/31.25, 2.5/62.5, 2.5/187.5kgf HBT5/25, 5/31.25, 5/62.5, 5/125, 5/250kgf HBT10/100, 10/125, 10/250kgf |
| Vickers test range | HV0.5, 1, 2, 2.5, 3, 4, 5, 10, 20, 25, 30, 40, 50, 60, 100, 120, 150 |
| Connectivity | LAN, W-LAN, 5xUSB, Bluetooth, Dual HDMI connector |
| Workpiece accommodation | 1500 x 1500mm (HxD) |
| Machine dimensions | 3225 x 1250 x 3250 mm (WxDxH) |
| Weight | 6,800kg (15,000lb) |
| Test force tolerance | <0.25% |
| Operating temp. | 10-35°C (50-95°F) non-condensing |
| Power supply | 100-240V AC, 50Hz/60Hz, single phase |
| Humidity | 10-90%, non-condensing |
| *Calibration of scales time of ordering | is required prior to use. Please specify desired scales at the |







Model Evotech 700*









The model Evotech 700*, test heads can be supplied with integrated or external (table or floor mounted) operating console. The test heads can be fully integrated in product manufacturing lines. The closed loop system based on a load cell and Rockwell, Vickers, Knoop, Brinell, Ball indentation, HVT and HBT scales are part of testing capabilities.

The test force ranges from 200gf to 3000kgf and test cycles can be automatic or manual. With motorized Z axis, descending test head capable of workpiece detection and motorized 9 position turret, it is one of the most loaded technological Hardness tester. 15" industrial touch screen and PC based Horizon software added advantage for this equipment.

Features and benefits

- Load cell, closed loop, force feedback system
- Load range 200gf-3000kgf (2N-30kN)
- Meets or exceeds ISO, ASTM and JIS standards
- Descending test head with automatic workpiece detection
- PC based Horizon hardness testing firmware and database file system, standard
- Large, adjustable 15" industrial touch screen
- Automatic or manual focus, manual or fully automatic indent measurement, standard
- Testing procedure and results storage on embedded hard drive

MODEL DETAILS

EV-70H-7001 5-3000kgf EV-70H-7002 5-3000kgf EV-70H-7003 0.2-3000kgf EV-70H-7004 0.2-3000kgf Single indenter, BIOS, Excl screen Single indenter, BIOS, Incl screen Rockwell, Vickers, Knoop, Brinell Rockwell, Vickers, Knoop, Brinell

STANDARD ACCESSORIES

- Motorized turret with 9 positions (EV7003 & EV7004)
- Power cable
- Certificate
- Installation and user manual
- Keyboard & Mouse

Specifications

| EV700* specifications | | | |
|-----------------------|--|--|--|
| Item # | EV-70H-7001, EV-70H-7002, EV-70H-7003, EV-70H-7004 | | |
| Hardness scales | Rockwell, Vickers, Knoop, Brinell, Ball indentation, HVT, HBT | | |
| Load application | Load cell, force feedback, closed loop system | | |
| Load range | 0.2-3000kgf | | |
| Motorized turret | 9 position | | |
| Objectives | | | |
| Indenters | | | |
| Display | 15" full color industrial touchscreen, testing results, statistics | | |
| Optical system | | | |
| Display resolution | 0.01HV, HK, HB | | |
| Standards | Meets or exceeds ISO, ASTM, JIS standards | | |



EV 7001 & EV 7002 Single indenter testheads



EV 7003 & EV 7004 with 9 position turret









The models of Evotech Universal hardness systems have optional accessories in support of different types of tests and/or materials

| | Indenter seats | models | | Indenters | models |
|----------------------------|--|---|----------------------------|--|--|
| EV-LTP-0000 | Cross laser & touch probe base | EV701*, EV702*, | FH-200-1026 | 1/2"carbide ball, ASTM & ISO certified | EV705* |
| EV-LTP-0001 | Touch probe for laser base, closed | EV708* EV701*, EV702*, | FH-200-1027 | 1.0mm carbide ball with ASTM & ISO cert. only for ø6.35mm | EV705* |
| EV-LTP-0002 | Touch probe for laser base, open | EV708* EV701*, EV702*, | FH-200-1028 | 2.5mm carbide ball with ASTM & ISO cert.only for ø6.35mm | EV705* |
| EV-INS-0000 | Indenter seat 3mm, 10gf - (62.5 kgf) | EV708* EV701* | FH-200-1029 | 5.0mm carbide ball with ASTM & ISO cert.only for ø6.35mm | EV705* |
| EV-INS-0005 | (187.5kgf) Indenter seat 6.35mm, 200gf - 62.5kgf | EV701*, EV702*, | FH-200-1030 | 10.0mm carbide ball with ASTM & ISO cert.only for ø6.35mm | EV705* |
| TV INIC 0004 | 1 1 | EV708* | | Optical | models |
| EV-INS-0004 EV-INS-0006 | Indenter seat 6.35mm, 1kgf - 250kgf Fixed indenter seat base 6.35 mm, | EV701*, EV702*, EV708* EV702*, EV708* | EV-CAM-0000 | Overview / Full view zoom camera + software functionality, Includes | EV705* |
| V-INS-0007 | 3000kg Indenter seat 6.35mm, 200gf - 20kgf | EV702* | EV-CAM-0001 | overview lights HD Overview camera. Full view zoom | EV708* |
| 1 1113 0007 | indented seat 0.55mm, 200gi Zongi | 2 4 7 0 2 | 5V 6AM 6663 | camera + software functionality | E) (704+ E) (700 |
| V-INS-0003 V-INS-0001 | Indenter seat 6.35mm, (3kgf) (5kgf) - 750kgf Indenter seat adjustment base, mounting | EV701* EV701*, EV702*, | EV-CAM-0003 | Overview / Full view zoom camera + software functionality, field of view 57x60mm up to 225x180mm, Includes overview lights | EV701*, EV702 |
| 1 1113 0001 | set | EV708* | EV-OBJ-0000 | 0.7x Objective for Brinell | EV701*, EV705 |
| V-INS-0002 | Fixed indenter seat base, mounting set | EV701*, EV702* | EV-OBJ-0001 | BRILIGHT objective 0.7x | EV702*, EV708 |
| | (min. 1 required) | | FH-050-0211 | 2.5x Long Working Distance objective | EV701*, EV702 |
| | Indenters | models | ELL 050 0015 | F. I. W. I. D | EV705*, EV70 |
| H-200-1002 | Rockwell C Diamond Indenter. Ø3mm. ISO & ASTM certified acc. ISO 6508/2 & ASTM | EV701*, EV702*, EV705*, EV708* | FH-050-0212 | 5x Long Working Distance objective | EV701*, EV702 EV705*, EV70 |
| H-200-0054 | Rockwell Ball Indenter 1/16". Includes 1 carbide ball ∅3mm. ISO & ASTM | EV701*, EV702*, EV705*, EV708* | FH-050-0213 FH-050-0214 | 10x Long Working Distance objective 20x Long Working Distance objective | EV701*, EV702 EV705*, EV70 EV701*, EV702 |
| | certified | | 111-030-0214 | 20x Long Working Distance objective | EV705*, EV70 |
| H-200-0055 | Rockwell Ball Indenter 1/8". Includes 1 carbide ball Ø3mm. ISO & ASTM | EV701*, EV702*, EV705*, EV708* | FH-006-1005 | 40x Long Working Distance objective | EV701*, EV705 |
| | certified | | FH-006-1006 | 60x Long Working Distance objective | EV701*, EV705 |
| H-200-0056 | Rockwell Ball Indenter 1/4". Includes 1 carbide ball. Ø3mm. ISO & ASTM | EV701*, EV702*, EV705*, EV708* | FH-006-1007 | 100x Long Working Distance objective | EV701*, EV705 |
| 1 200 2057 | certified | · | EV-OBJ-0010 | Adjustable objective socket 2.5x – 100x (1x required for each objective) | EV701*, EV702 EV708* |
| H-200-0057 | Rockwell Ball Indenter 1/2". Includes 1 carbide ball. Ø3mm. ISO & ASTM certified | EV701*, EV702*, EV705*, EV708* | EV-OBJ-0011 | Adjustable objective socket 0.7x (required for 0.7 objective) | EV701*, EV702 EV708* |
| H-200-1000 | Micro Vickers Indenter ⊘3mm, ISO & ASTM certified | EV701* | EV-RIL-0000 | Crystal™ Clear LED ring light, multi use for 0.7x objectives | EV701*, EV705 |
| H-200-1001 | Micro Knoop Indenter Ø3mm, ISO & ASTM certified | EV701* | FH-050-0356 | Crystal [™] Clear LED ring light, multi use for 2.5x objectives | EV701*, EV702 EV705*, EV70 |
| H-200-1008 | Brinell Indenter 1mm. Includes 1 carbide ball. Ø3mm. ISO & ASTM certified | EV701* | FH-050-0358 | Crystal™ Clear LED ring light, multi use for 5x objectives | EV701*, EV702 EV705*, EV708 |
| H-200-1009 | Brinell Indenter 2.5mm. Includes 1 | EV701* | | Stage/Anvil | mode |
| H-200-1010 | carbide ball. Ø3mm. ISO & ASTM certified Brinell Indenter 5mm. Includes 1 carbide | EV701* | FH-050-0036 | Manual X-Y stage with analogue metric micrometers, 180x160mm Displacement 25x25mm, scale 0.01mm, max load | EV701*, EV EV708* |
| | ball. ∅3mm. ISO & ASTM certified | | | 300kg | |
| H-200-1011 | Macro Vickers Indenter ∅6.35mm, ISO & ASTM certified | EV701*, EV702*, EV705*, EV708* | FH-050-0279 | Lock flange Mounting plate for lock flange | EV701*, EV701*, EV |
| H-200-1012 | Macro Knoop Indenter Ø6.35mm, ISO & ASTM certified | EV701*, EV702*, EV705*, EV708* | FH-050-0312 | Mounting plate for lock flange | EV708* EV705* |
| H-200-1019 | Brinell Indenter 1mm. Includes 1 carbide ball. Ø6.35mm. ISO & ASTM certified | EV701*, EV702*, EV705*, EV708* | FH-050-0312 FH-050-0285 | Quick change anvil base (required for | EV701*, EV |
| H-200-1020 | Brinell Indenter 2.5mm. Includes 1 carbide ball. Ø6.35mm. ISO & ASTM | EV701*, EV702*, EV705*, EV708* | FH-050-0042 | mounting testing tables, anvils) Testing table at ø200mm, screwfix | EV708* EV701*, EV7 EV708* |
| H-200-1021 | certified Brinell Indenter 5mm. Includes 1 carbide ball. Ø6.35mm. ISO & ASTM certified | EV701*, EV702*, EV705*, EV708* | FH-050-0034 | Testing tabe at ø235mm, screwfix | EV701*, EV7 |
| H-200-1022 | Brinell Indenter 10mm. Includes 1 carbide ball. Ø6.35mm. ISO & ASTM certified | EV701*, EV702*, EV705*, EV708* | EV-RTT-0000 | Testing table ∅200mm (61 - 65HRC) requires lock flange | EV701*, EV7 |
| H-200-1023 | 1/16" carbide ball, ASTM & ISO certified | EV705* | FH-050-0066 | Manual X-Y stage with analogue metric | EV701*, EV |
| H-200-1024 | 1/8" carbide ball, ASTM & ISO certified | EV705* | | micrometers, 100x100mm. Displacement 25x25mm, scale 0.01mm, max load 100k | |
| H-200-1025 | 1/4" carbide ball, ASTM & ISO certified | EV705* | | , | <u> </u> |









| | Stage/Anvil | models | | Stage/Anvil | models |
|---------------|--|---------------------------|-------------|---|-----------------------------------|
| FH-011-0038 | Large flat surface testing table 350x250 mm, thickness 30mm with 2 T-slots, for large components | EV701*, EV702*, EV708* | FH-049-0018 | Motorized CNC X-Y stage, 510x280 mm, total load up to 4000Kgf max. Displacement: 300x150mm, resolution 0.001mm, repeatability +/- 0.008mm | EV701*, EV702*, EV705* |
| FH-011-0018 | Large at surface testing table 450x350mm, thickness 35mm with 2 T-slots, for large components | EV701*, EV702*, EV708* | FH-049-0019 | Motorized CNC X-Y stage, 630x238 mm, total load up to 4000Kgf max. Displacement: 400x150mm, resolution | EV701*, EV702*, EV705* |
| FH-050-0010 | Digital micrometer, for manual X-Y stage, Displacement: 25mm, resolution 0.001mm | EV701*, EV702* | FH-050-0335 | 0.001mm, repeatability +/- 0.008mm Dove tail mounting plate, for UN | EV701*, EV702*, |
| EV-MSA-0001 | Manual iSMART™ stage, 150x150mm, Displacement: 50x50mm | EV701*, EV702* | FH-011-0045 | motorized stages Cable set for connecting CNC stage to | EV708* EV701*, EV702* |
| EV-MSA-0002 | Digital control unit for Manual iSMART™ stage, 25mm travel | EV701*, EV702* | FH-002-0037 | embedded driver (1 set for 2-axis) 105cm Cable set for connecting CNC stage to | EV705* |
| EV-MSA-0003 | Digital control unit for Manual iSMART™ stage, 50mm travel | EV701*, EV702* | | embedded driver (1 set for 2-axis) 155cm Anvils | models |
| EV-MSC-0001 | iSMART™ motorized CNC X-Y stage, 215x160mm, total load up to 400Kgf max. Displacement: 75x75mm, resolution 0.001mm, repeatability+/-0.015mm | EV701*, EV702*, EV708* | FH-050-0266 | Flat anvil 60mm | EV701*, EV702*, EV708* |
| EV-MSC-0002 | iSMART™ stage, 260x205mm, total | EV701*, EV702*, | FH-050-0117 | Flat anvil 80mm | EV701*, EV702*, EV708* |
| LV Mise 6002 | load up to 400Kgf max. Displacement: 120x120mm, resolution 0.001mm, repeatability+/-0.015mm | EV708* | FH-050-0041 | Spot anvil 5mm | EV701*, EV702*, EV708* |
| EV-MSC-0003 | iSMART™ stage, 360x205mm, total load up to 400Kgf max. Displacement: | EV701*, EV702*, EV708* | FH-050-0037 | Spot anvil 10mm | EV701*, EV702*, EV705*, EV708* |
| | 220x120mm, resolution 0.001mm, repeatability+/-0.015mm | | FH-050-0324 | Cylindrical V anvil 6-80mm | EV701*, EV702*, EV708* |
| EV-MSC-0004 | iSMART™ stage, 490x224mm, total load up to 400Kgf max. Displacement: | EV701*, EV702*, EV708* | FH-050-0325 | Cylindrical V anvil 50-200mm | EV701*, EV702*, EV708* |
| F) / HCC 000F | 340x120mm, resolution 0.001mm, repeatability+/-0.015mm | E) (704* E) (702* | FH-050-0353 | V block with bracket 40x40x50mm (LxBxH) | EV701*, EV702*, EV705*, EV708* |
| EV-MSC-0005 | iSMART™ stage, 410x265mm, total load up to 4000Kgf max. Displacement: 200x150mm, resolution 0.001mm, | EV701*, EV702*, EV708* | FH-050-0354 | Steel, cross type, (X) V-block 60x120x100mm 8-90mm pair | EV701*, EV702*, EV705*, EV708* |
| EV-MSC-0006 | repeatability+/-0.015mm iSMART™ stage, 510x265mm,total load | EV701*, EV702*, | FH-050-0040 | V-anvil ø40mm 6-60mm | EV701*, EV702*, EV708* |
| | up to 4000Kgf max. Displacement: 300x150mm, resolution 0.001mm, repeatability+/-0.015mm | EV708* | FH-050-0326 | V-anvil ø63mm 10-100mm | EV701*, EV702*, EV708* |
| EV-MSC-0007 | iSMART™ stage, 560x265mm, total | EV701*, EV702*, | FH-050-0025 | V-Anvil ø80mm 3.3-20mm | EV701*, EV702*, EV708* |
| | load up to 4000Kgf max. Displacement: 400x150mm, resolution 0.001mm, repeatability+/-0.015mm | EV708* | FH-050-0026 | V-Anvil ø80mm 12-80mm | EV701*, EV702*, EV708* |
| FH-049-0001 | Motorized CNC X-Y stage, 307x208 mm, total load up to 400Kgf max | EV701*, EV705* | FH-050-0027 | V-Anvil ø80mm 20-140mm | EV701*, EV702*, EV708* |
| | Displacement: 170x120mm, resolution 0.001mm, repeatability+/-0.003mm | | FH-050-0123 | V-anvil ø120mm 17-100mm | EV705* |
| FH-049-0002 | Motorized CNC X-Y stage, 357x208 | EV701*, EV702*, | FH-050-0124 | V-anvil ø120mm 3.3-20mm | EV705* |
| | mm, total load up to 400Kgf max Displacement: 220x120mm, resolution | EV705* | FH-050-0125 | V-anvil ø120mm 33-200mm | EV705* |
| FH-049-0012 | 0.001mm, repeatability +/- 0.003mm Motorized CNC X-Y stage, 237x188mm, total load up to 100Kqf max | EV705* | FH-050-0034 | Large flat surface testing table 650X500mm, thickness 45mm with 2 T-slots, for large components | EV705* |
| | Displacement: 100x100mm, resolution 0.001 mm, repeatibility +/-0.003mm | | FH-050-0029 | Test table 100x100mm, V grove 20mm wide, 10mm deep | EV701*, EV702*, EV708* |
| FH-049-0013 | Motorized CNC X-Y stage, 257x188mm, total load up to 400Kgf max | EV701*, EV702*, EV705* | FH-006-1008 | Small V-Anvil 3-20mm requires base plate (Req. Manual/Autom. X-Y stage) | EV701*, EV702*, EV705*, EV708* |
| FIL 0.40 0044 | Displacement: 120x120mm, resolution 0.001 mm, repeatability+/-0.003mm | EV (2011 EV (2001 | FH-006-1009 | Large V-Anvil 20-75mm requires base plate (Req. Manual/Autom. X-Y stage) | EV701*, EV702*, EV705*, EV708* |
| FH-049-0014 | Motorized CNC X-Y stage, 337X238 mm, total load up to 400Kgf max. Displacement: 200x150mm, resolution | EV701*, EV702*, EV705* | FH-050-0267 | Base plate for V-anvils | EV701*, EV702*, EV705*, EV708* |
| 511 0 10 0015 | 0.001mm, repeatability +/- 0.003mm | | EV-ANV-0000 | Extra long V-Anvil (Ø10 - Ø100) | EV701*, EV702*, EV708* |
| FH-049-0015 | Motorized CNC X-Y stage, 437x238 mm, total load up to 450Kgf max. | EV701*, EV702*, EV705* | | Cananda baldana | |
| | Displacement: 300x150mm, resolution 0.001mm, repeatability +/- 0.003mm | | FH-050-0268 | Sample holders 1 position sample holder, for 1 | models EV701*, EV702*, |
| FH-049-0016 | Motorized CNC X-Y stage, 630x238 mm, total load up to 450Kgf max Displacement: 400x150mm, resolution | EV701*, EV702*, EV705* | | embedded sample, diameter 50mm or 2" | EV705*, EV708* |
| | 0.001mm, repeatability +/-0.003mm | | FH-050-0269 | 4 position sample holder, for max. 4 embedded samples, Ø 50mm or 2" | EV701*, EV702*, EV705*, EV708* |
| FH-049-0017 | Motorized CNC X-Y stage, 410X280 mm, total load up to 4000Kgf max. Displacement: 200x150mm, resolution | EV701*, EV702*, EV705* | FH-050-0270 | 6 position sample holder, for max. 6 embedded samples, Ø 50mm or 2" | EV701*, EV702*, EV705*, EV708* |
| | 0.001mm, repeatability +/- 0.008mm | | EV-SHL-0000 | 1 position sample holder, for 1 embedded sample, diameter 50mm or 2" with front operation elevator knob | EV701*, EV702*, EV708* |









| | | 700110 | | | |
|----------------------------|---|-----------------------------------|---|--|-----------------------------------|
| | Sample holders | models | | Software | models |
| EV-SHL-0001 | 4 position sample holder, for 4 embedded sample, diameter 50mm or 2" with front operation elevator knob | EV701*, EV702*, EV708* | FH-500-0023 | Automatic Contour scanning | EV701*, EV702*, EV708* |
| EV-SHL-0002 | 6 position sample holder, for 6 | EV701*, EV702*, | FH-500-0012 | 2D / 3D hardness scanning (mapping, includes automatic contour scanning) | EV701*, EV702*, EV708* |
| | embedded sample, diameter 50mm or 2" with front operation elevator knob | EV708* | FH-500-0024 | Drawing and measuring (distance & angles) application | EV701*, EV702*, EV708* |
| EV-SHL-0003 EV-SHL-0004 | 12 position sample holder, for 12 embedded sample, diameter 50mm or 2" with front operation elevator knob | EV701*, EV702*, EV708* | EV-ASW-0001 | DualView Technology, 2 viewing screens software, screen, cables, Eu- rope and US power cable included, 24" Industrial LCD screen included | EV701* |
| EV-3HL-0004 | 1 insert reduction ring 25mm | EV705*, EV708* | FH-050-0203 | Automatic edge detection | EV701*, EV702*, |
| EV-SHL-0005 | 1 insert reduction ring 30mm | EV702*, EV705*, EV708* | FH-500-0026 | Force depth/time diagram | EV708* EV701*, EV702*, |
| EV-SHL-0006 | 1 insert reduction ring 40mm | EV701*, EV702*, EV705*, EV708* | FU F00 0027 | 1000001 | EV708* |
| EV-050-0307 | 1 insert reduction ring 1" | EV701*, EV702*, EV705*, EV708* | FH-500-0027 | ISO898-1 screw thread measurement of (de)-carbonized part ISO-2702 tap screw thread measure- | EV701*, EV702*, EV701*, EV702* |
| EV-050-0308 | 1 insert reduction ring 11/4" | EV701*, EV702*, EV705*, EV708* | FH-300-0026 | ment | EV701*, EV702*, EV708* |
| EV-050-0309 | 1 insert reduction ring 1,5" | EV701*, EV702*, EV705*, EV708* | EV-ASW-0003 | User level management | EV701*, EV702*, EV708* |
| | Fixtures/Vice | models | FH-500-0029 | CHD, SHD, NHD congurator & graphic interface for analogue and digital micro | EV701*, EV702* |
| FH-050-0340 | Polished precision vice with lock, ope- | EV701*, EV702*, | | meter stage only (not including full pat- tern editor) | |
| FH-050-0341 | ning width 25mm, opens 20mm Polished precision vice with lock, ope- | EV705*, EV708* EV701*, EV702*, | FH-006-1012 | CHD, SHD, NHD congurator & graphic interface requires: indent pattern con- | EV701*, EV702*, EV708* |
| FH-050-0342 | ning width 36mm, opens 42mm Polished precision vice with lock, ope- | EV705*, EV708* EV701*, EV702*, | FH-500-0030 | gurator Q-DAS Certied connectivity protocol | EV701*, EV702*, |
| | ning width 48mm, opens 75mm | EV705*, EV708* | EV-ASW-0005 | Advanced 3-axis communication proto- | EV708* EV701*, EV702*, |
| FH-050-0343 | Polished precision vice with lock, opening width 75mm, opens 100mm | EV701*, EV702*, EV705*, EV708* | | col for robotic systems | EV708* |
| EV-FNV-0000 | Axle chuck 500 series for cylinder parts, dia. 0.4mm to 5mm | EV701*, EV702*, EV705* | FH-006-1013 | ISO bullets casings pattern congurator and reporting system | EV701*, EV702*, EV708* |
| FH-050-0073 | Universal Clamp & Leveling Device | EV701*, EV702*, EV705* | FH-006-1018 | ISO 9015 Weld pattern conifgurator (automatic weld pattern congurator), requires overview camera | EV701*, EV702*, EV708* |
| FH-050-0076 | Thin metal clamp | EV701*, EV702*, EV705* | EV-ASW-0006 | Vibration, temperature & humidity monitoring | EV701*, EV702*, EV708* |
| FH-050-0345 | V groove clamp for small round parts dia.0.8-5mm | EV701*, EV702*, EV705* | FH-500-0031 | Articial Intelligence Deep Learning Brinell module | EV701*, EV702*, EV708* |
| FH-050-0075 | Wire Testing Fixture for specimen dia. 0.8-3.5mm | EV701*, EV702*, EV705* | EV-ASW-0007 | Barcode & QR data mapping software | EV701*, EV702*, EV708* |
| FH-050-0112 | JOMINY Fixture, for 1 quench end test sample, quick release function | EV701*, EV702*, EV705*, EV708* | EV-ASW-0008 | MetalloscopeTM Metallogy software pack | EV701* |
| FH-050-0113 | JOMINY Fixture, for 3 quench end test sample, quick release function | EV701*, EV702*, EV705*, EV708* | FH-053-0007 | Powerful external intel core i7 pc, with 16gb ram, and 512gb ssd drive Windows 10 pre-installed including wiring and integration with tester. | EV701*, EV702*, EV708* |
| EV-FNV-0001 | Small parts vice jaw width 55mm, open 50mm, self centering | EV701*, EV702*, EV705*, EV708* | | | |
| EV-FNV-0003 | Jack Rest | EV708* | FH-053-0008 | Powerful external intel core i9 pc, with 16GB ram, and 512GB SSD drive Win- | EV701*, EV702*, EV708* |
| | Software | models | | dows 10 pre-installed including wiring and integration with tester | _,, 50 |
| | Manual on-screen measurement | EV701* | FH-500-0019 | Bluetooth connectivity | EV701*, EV702*, |
| | Automatic measurement | EV701* | | , | EV708* |
| | Automatic focussing Report congurator | EV701* EV701* | FH-050-0119 | Utility software; Import test results in MS applications like Excel | EV701*, EV702*, EV708* |
| | Snapshot function | EV701* | EV-SYS-0001 | Application of customer supplied PC, | EV708* |
| FH-006-1011 | Advanced 3 axis coordinate & free style | EV701*, EV702*, | E) / C) / C C C C C C C C C C C C C C C C | plus wiring and integration with tester | E) /704* E) /702* |
| | indent pattern congurator, for motorized stage only | EV708* | EV-SYS-0002 | USB to USB null modem cable 2.5M | EV701*, EV702*, EV708* |
| FH-500-0021 | Advanced 3 axis coordinate & free style indent pattern congurator, + CHD, SHD, NHD and edge detection, (supports manual & digital micrometer | EV701*, EV702* | FH-050-0136 | Wireless system Keyboard & wireless mouse | EV701*, EV702*, EV708* |
| | | | | Tables/Cabinets | models |
| FILE 00 0000 | stages only) | E) (704) E) (500) | FH-095-0002 | Cabinet/table for bench machines | EV701*, EV702* |
| FH-500-0022 | Image stitching, composes full stage overview, and detailed sample overview in high resolution.Req. a motorized | EV701*, EV702*, EV708* | FH-095-0003 | 710x750x800mm (grey/black top) Cabinet/table for bench machines | EV701*, EV702* |
| EH 004 1014 | stage. | E\/701* E\/700* | | 1500x750x800mm (grey/black top) | |
| FH-006-1016 | KiC crack detection under load. Palm- qvist & Median / Radial fracture toug- hness | EV701*, EV702*, EV708* | | | |









| | Calibration options | models |
|-------------|---|-----------------------------------|
| FH-051-0000 | Direct calibration; ISO 17025-A2LA compliant/per scale (factory) | EV701*, EV702*, EV705*, EV708* |
| FH-051-0002 | Additional scales calibration | EV701*, EV702*, EV705*, EV708* |
| FH-051-0005 | VICKERS direct and indirect verifi- cation/calibration & certification in compliance with ISO & ASTM, NADCAP. Includes direct force and indirect veri- fication report (block readings), GR & R report | EV701*, EV702*, EV705*, EV708* |
| FH-051-0006 | BRINELL direct and indirect verification/calibration & certification in compliance with ISO & ASTM, NADCAP. Includes direct force and indirect verification report (block readings), GR & R report | EV701*, EV702*, EV705*, EV708* |
| FH-051-0007 | KNOOP direct and indirect verification/ calibration & certification in compliance with ISO & ASTM, NADCAP. Includes directforce and indirect verification re- port (block readings), GR & R report | EV701*, EV702*, EV705*, EV708* |
| FH-051-0008 | Rockwell direct and indirect verification/calibration & certification in compliance with ISO & ASTM, NADCAP. Includes direct force and indirect verification report (block readings), GR & R report | EV701*, EV702*, EV705*, EV708* |

| | Cover | models |
|-------------|--|----------------|
| FH-052-0008 | Tester cover 600x700x1000mm | EV701*, EV702* |
| FH-052-0011 | Tester cover 800x1150x2100mm | EV705* |
| | Tables/Cabinets | models |
| FH-095-0002 | Cabinet/table for bench machines 710x750x800mm (grey/black top) | EV701*, EV702* |
| FH-095-0003 | Cabinet/table for bench machines 1500x750x800mm (grey/black top) | EV701*, EV702* |
| | models | |
| FH-050-0289 | Passive vibration isolation stage, broad spectrum | EV701*, EV702* |
| FH-053-0009 | Dust Protection System | EV705* |
| EV-JST-0000 | 3-axis joystick, with ne adjustment and dynamic axis control | EV701* |





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O Noida, UP, India O Shanghai, PR China