MTS Fundamental Accessories are a new family of basic, affordable grips, fixtures and platens designed to support a full spectrum of basic monotonic testing of materials and small components. Ideal for testing plastics, textiles, rubber, wire and rope specimens, the MTS Fundamental family complements MTS’ high-performance Advantage® and application-specific Bionix® accessories lines, extending the range of MTS Insight™ Test Systems to fully encompass basic quality control, complex biomedical simulations and demanding research and development applications.

The accuracy and repeatability of test results depend – to a large degree – on the quality of the fixture/specimen interface. The introduction of MTS Fundamental grips and fixtures broadens the utility of MTS Insight Electromechanical Test Systems by providing labs a wider choice of accessories to more effectively engage a greater variety of test specimens and better meet the demands of specific test applications.

Contact MTS today and learn how the MTS Fundamental family of affordable and durable grips, fixtures and platens can meet your basic monotonic testing needs.
Universal Adapter Design

Durable MTS Fundamental Accessories are engineered to deliver years of accurate and efficient monotonic testing. A universal adapter design facilitates easy installation onto both MTS electromechanical and servohydraulic load frames systems, as well as other electromechanical test systems. Optional threaded frame adapters further enhance installation versatility. Anti-rotation features and integrated alignment pins enhance test accuracy and repeatability.

MTS Fundamental Vise Action Grips

MTS Fundamental Vise Action Grips are value-priced miniature, medium and heavy-duty general purpose tensile grips that use a clamping screw to tighten a vise; each order includes a set of rubber faces. Available in a variety of load capacities and sizes, they are suitable for testing paper, plastic film, textiles, sheet materials and packaging components at temperatures ranging from -10 to 50 C.

**FEATURES**
- Set of rubber faces standard with each order
- Universal adapter design
- Optional threaded frame adapter
- Anti-rotation features and integrated alignment pins
- Temperature Range: -10 to 50 C
- Applications: Paper, plastic film, textiles, sheet materials, packaging components

MTS Fundamental Roller Action Grips

Versatile MTS Fundamental Roller Action Grips are value-priced, quick-loading and self-tightening roller grips suitable for testing foil, rubber and flexible polymers at temperatures ranging from -10 to 50 C for the 1 kN grips, and -130 to 150 C for the 2kN and 5 kN grips.

**FEATURES**
- Quick-loading, self-tightening
- Universal adapter design
- Optional threaded frame adapter
- Anti-rotation features and integrated alignment pins
- Temperature Range: -10 to 50 C for 1 kN; -130 to 150 C for 2 and 5 kN
- Applications: Foil, rubber, flexible polymers

MTS Fundamental Scissors Action Grips

MTS Fundamental Scissors Action Grips are value-priced self-tightening and self-aligning grips featuring diamond faces. They are suitable for testing foil, rubber and flexible polymers at temperatures ranging from -10 to 50 C.

**FEATURES**
- Self-tightening and self-aligning
- Diamond grip faces
- Universal adapter design
- Optional threaded frame adapter
- Anti-rotation features and integrated alignment pins
- Temperature Range: -10 to 50 C
- Applications: Foil, rubber, flexible polymers
MTS Fundamental Low Force Aluminum Compression Platens

MTS Fundamental Low Force Aluminum Compression Platens are value-priced, lightweight fixed compression platens designed for testing with small load cells (1 kN and less). Available in a variety of sizes, they are suitable for testing polystyrene, rubber, composites, sintered materials and components at temperatures ranging from -130 to 150°C.

**Features**
- Universal adapter design
- Optional threaded frame adapter
- Specimen centering grooves
- Anti-rotation features and integrated alignment pins
- Temperature Range: -130 to 150°C
- Applications: Polystyrene, rubber, composites, sintered materials and components

MTS Fundamental High Force Steel Compression Platens

MTS Fundamental High Force Steel Compression Platens are value-priced, steel compression platens with precision-ground, hardened surfaces. Available in a variety of sizes, they are suitable for testing foam, composites, bottles and plastic containers at temperatures ranging from -130 to 150°C.

**Features**
- Precision-ground, hardened surface
- Optional threaded frame adapter
- Specimen centering grooves
- Anti-rotation features and integrated alignment pins
- Temperature Range: -130 to 150°C
- Applications: Foam, composites, bottles, plastic containers

MTS Fundamental 90° Peel Fixture

MTS Fundamental 90° Peel Fixtures employ precision bearings to maintain perpendicular axial alignment while measuring the force required to peel adhered material from a clamped-down substrate. They are suitable for meeting a variety of material testing standards, including ASTM D1876, FINAT FTM1/2/3 and AFERA 4015 T4. Upper grip not included.

**Features**
- Precision bearings
- Applications: ASTM D1876, FINAT FTM1/2/3 and AFERA 4015 T4
MTS Fundamental Pneumatic Bollard Grips

MTS Fundamental Pneumatic Bollard Grips are value-priced, “horn” style grips designed to reduce stress concentration on specimens and avoid grip-induced failures. They are suitable for testing cords, filaments, fibers, fine wire and yarns at temperatures ranging from -10 to 80 C. Specimen slippage is minimized by a pneumatic gripping mechanism and clamping forces are easily controlled by adjusting air supply pressure. Operation of these grips requires a dry, filtered air supply and an MTS pneumatic controller.

Features
- “Horn” style design
- Pneumatic gripping mechanism
- Requires controller
- Temperature Range: -10 to 80 C
- Applications: Cords, filaments, fibers, fine wire, yarns

MTS Fundamental Manual Bollard Grips

MTS Fundamental Manual Bollard Grips are value-priced, “horn” style grips designed to reduce stress concentration on specimens and avoid grip-induced failures. They are suitable for testing cords, filaments, fibers, fine wire and yarns at temperatures ranging from -10 to 50 C.

Features
- “Horn” style design
- Universal adapter design
- Optional threaded frame adapter
- Anti-rotation features and integrated alignment pins
- Temperature Range: -10 to 50 C
- Applications: Cords, filaments, fibers, fine wire, yarns

MTS Fundamental Coefficient of Friction Grips

MTS Fundamental Coefficient of Friction Grips employ a pulley and string mechanism to measure the force required to pull a friction sled over a material specimen. They are suitable for meeting a variety of material testing standards, including ASTM D1894 (plastic film), TAPPI T542 (paper and cardboard), TAPPI T549 (non-fibrous materials) and TAPPI T816 (corrugated).

Features
- Pulley and string mechanism
- Applications: Plastic film, paper and cardboard, non-fibrous materials, corrugated