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# MATERIAL TESTING INSTRUMENTS CATALOG



MATERIAL TESTING DIVISION

**MAXTECH CORPORATION**

Analytical, Environmental, Material Testing & Life Sciences Equipment

## TABLE OF CONTENTS

Page #

### OUR PRINCIPALS

3



#### AMETEK Inc.

3

Universal Testing Machine (UTM), Force Gauges, Hardness Tester



#### RDM Test Equipment Limited

11

Pulp, Paper and Packaging



## AMETEK INC - USA



### FORCE GAUGES

#### DIGITAL FORCE GAUGES



##### DFE3 Series Digital Force Gauges

The new generation of digital force gauges for force measurement, specially designed for easy-to-use force gauges with functionality that can help them optimize processes and save time.



##### DFX II Series Digital Force Gauges

Low-cost digital force gauge, ideal for applications in basic peak force measurement. This digital force gauge is available in 10 lbf, 50 lbf, 100 lbf and 200 lbf.



##### DFS II R ND Series Digital Force Gauges (Non-dedicated)

A Remote non-dedicated digital force gauge. Combining it with a torque sensor this force gauge turns in to a torque measurement device.



##### DFS II R Series Digital Force Gauges (Dedicated)

Available with a remote SLC load cell, dedicated to the unit to offer the ability to test in locations where a fixed and integral load cell is impractical.

#### MECHANICAL FORCE GAUGES



##### DG Series

The DG Series is an excellent, economical solution for tensile or compression testing up to 500 lbf (2.5 kN).



##### LG Series

The LG Series is an excellent, economical solution for tensile or compression testing.

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**AMETEK**<sup>®</sup>



### ERGONOMIC FORCE GAUGES



#### MSE100 Series

Simple-to-use, ergonomically designed mechanical instrument ideal for muscle strength evaluations and job task analysis.



#### DMG Series

Physical, occupational and sports applications, and general patient assessment in family, neurological, and orthopedic practices.

### HYDRAULIC FORCE GAUGES



#### Model 329

This compact hydraulic force gauge from Erichsen is designed primarily for occasional force checks.



#### Model 332

This high-quality hydraulic force gauge from Erichsen is intended for permanent fitting into machines and installations.



#### Model 338

This robust hydraulic force gauge from Erichsen is designed for permanent installation as well as for occasional force checking.



#### Model 343

This hydraulic force gauge from Erichsen can be used when there is a need to fit a link through the body of the load cell.

### MATERIAL TESTERS

#### Manual Test Stands



#### MT Series

The MT Series is a manual test stand for force measurement applications up to 500 lbf (2.5 kN) capacities. The test stand can be bench mounted, wall mounted, or positioned horizontally.



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### Motorized Test Stands



#### TCM Series

The TCM series is well adapted for production environments. This low cost, motorized, ergonomic tester attached with our Chatillon DF Series digital force gauges makes tensile, compression, peel, and flexural testing of your samples an easy task.

### Universal Test Machines

#### Up to 5 kN



#### LS Series - Up to 5 kN

Easy-to-use universal testing machines ideal for materials testing up to 5 kN (1124 lbf). The machines use high-accuracy interchangeable YLC Series load cells for tension, compression and cycling through zero-force measurements, and they have an accuracy of  $\pm 0.5\%$  from 1% to 100% of load cell value. Applications: Plastic, Rubber, Electronics, Textiles, Wood, Packaging, Medical Devices and Cosmetics.

### Universal Test Machines

#### Up to 5 kN



#### Cs2 Series - Up to 5 kN

The CS2 Series are high quality digital force testing machines optimized for production and laboratory testing of applications up to 5 kN (1100 lbf). These force testing machines are an excellent choice for simple testing.

Applications: Plastic, Rubber, Packaging, Pharma, Cosmetic, Electronics and Wood.

### Universal Test Machines

#### Up to 100 kN



#### LD Series (bench mounted)

Ease of use and superior flexibility. These universal materials testing machines are ideal for testing applications up to 100 kN (22480 lbf) and are designed for both routine quality control testing, automated testing and for performing complex multi-stage testing. Applications: Plastic, Rubber, Wood, Packaging, Construction Materials, Metals and Automotive parts.

### Application Specific Testers

#### Polymer Testers



#### Density Columns - Density Measurement

Davenport density measuring columns are designed to measure the density of solid materials such as plastics.

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### Texture Analyzers



#### Ta1 Texture Analyzer

The TA1 texture analyzer is an easy-to-use, cost-effective solution to evaluate the textural properties of a wide range of products.

### Friction Testers



#### Ft1 Friction Tester

The FT1 friction tester is a perfect choice to easily measure static and kinetic coefficients of friction.

### Hardness Testers



#### Mt91 Series - Rockwell Microhardness Testers

Modular and cost-effective solution for applications requiring advanced microhardness testing functionality, such as complex case depth traverses.



#### KB Series - Brinell Hardness Testers

The KB Series are lightweight, portable Brinell hardness testers ideal for virtually any size or shape of metal specimen.



#### Pin Brinell - Brinell Hardness Testers

The Pin Brinell testers from Newage are cost effective instruments using calibrated shear pins to control the amount of load applied.



#### Versitron Rockwell Hardness Tester

Perform Rockwell hardness testing in only 4 seconds with the unique Versitron Rockwell hardness testing system.



#### B.O.S.S. Optical Scope - Brinell Hardness Testers

Includes a high resolution video scanning head and imaging software that ensures a fast and accurate reading of Brinell impressions.



#### HiLight Optical Scope - Brinell Hardness Testers

Optical scope featuring a high intensity LED light source providing excellent contrast for measuring your Brinell impressions.



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### Harness Testers



#### Optical Pocket Scope - Brinell Hardness Testers

The optical pocket scope is ideal for economy applications. This versatile scope features a 20X magnification, pre-focused lens and a narrow nose piece.

### EXTENSOMETERS



**Video Extensometers:** The VE1 is a high precision video extensometer that uses a non-contacting optical measurement based on a digital camera and real time image processing to measure longitudinal and transversal strain during tensile tests.

**Long Travel Extensometers:** Long travel extensometers are ideal for use when testing high-elongation materials. We supply two different long travel extensometers; one for plastic and rubber and one for rigid, semi-rigid and ductile materials.

**Deflection Gauge Extensometers:** A wide range of deflection gauge extensometers are ideal to measure deformation in three- and four-point bend tests and in compression testing applications. It offers a wide range in many shapes and sizes.

**Contacting Extensometers:** A wide variety of general purpose contacting extensometers in exactly the size you need. These extensometers are designed for accurate strain and extension measurement of a wide range of materials up to a maximum sample thickness of 25 mm.



### Grips and Fixtures for Force Gauges



#### Chisel Point Adapters

Adapters for a wide range of materials such as foods, plastics and soft metals.



#### Point Adapters

Point adapters for compression and puncture.



#### V Notch Adapters

V notch adapters for compression.



#### Flat Adapters

Flat adapters for compression.

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### Grips and Fixtures for Force Gauges



**Hooks, Stationary**  
Stationary hooks for tensile testing.



**Hooks, Swivel**  
Swivel hooks for tensile testing.



**Hooks, Clasp**  
Clasp hooks for tensile testing.

### Grips and Fixtures for Test Stands



**Adapters**  
Adapters for grips, fixtures and load cells.



**Bending/Flexural Jigs**  
Bending grips/flexural grips for 3-point and 4-point bending.



**Bollard Grips**  
Bollard grips for a wide range of samples such as yarn, fibre and thread.



**Compression Plates**  
Compression plates for compression testing.



**Eccentric Roller Grips**  
Eccentric roller grips for flat samples such as rubber, plastic film and paper.



**Hydraulic Grips**  
Hydraulic grips with single or double actuator.



**Peel and Friction Grips**  
The peel and friction grips come in different designs and are ideal for peeling samples at 90°, 180°, performing T-peel and COF.



**Pincer Grips**  
Pincer grips for small component parts.



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### Grips and Fixtures for Test Stands



**Pneumatic Grips**  
Pneumatic grips for all types of samples.



**Ribbon & Webbing Grips**  
Ribbon and webbing grips with split C-design.



**Scissor Grips**  
Scissor grips for flat samples such as foils, plastic film and rubber.



**Thread Head Grips**  
Thread head grips for machined dumbbells with metric threads.



**Wedge Grips**  
Wedge grips for testing the tension of plastic and metals.



**Vice Grips**  
Vice grips for all types of samples.

### Food Grips and Fixtures



**Bakery Testing**  
Test your bakery ingredients through to finished products.

### Food Grips and Fixtures



**Cereals Testing**  
Test the crispiness, firmness and flexural strength of your cereal products.



**Confectionary & Snacks Testing**  
Test the hardness, crispiness and stickiness of your boiled sweets, snacks or chocolate.



**Meat, Poultry and Fish Testing**  
Test the firmness and cutting strength of your meat, poultry or fish.



**Fruit and Vegetables Testing**  
Test the firmness and extrusion properties on your fruit or vegetables.

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### Food Grips and Fixtures



#### Dairy Testing

Test the cutting resistance, viscosity, spreadability and gel strength of your cheese, yoghurt, butter or sauces.



#### Pasta, Rice and Noodles Testing

Test the firmness, elasticity and stickiness of your pasta, rice or noodles.



#### Gels Testing

Test the bloom strength of your gels.



#### Pet Food Testing

Test the hardness and bending strength of your pet foods.



#### Cosmetics Testing

Test the consistency, spreadability and bending strength on you cosmetics products.



#### Packaging Testing

Test the top load, friction and tearing strength of your packaging.

### Accessories



#### Load Cells and Sensors

Our high-quality load cells and sensors are used for materials testing and force measurement all over the world.

### Accessories



#### Pogos

Pogo systems are available for all single column and dual column bench test stands.



#### Splinter Shields

Splinter shields are available to protect the user when testing brittle samples which are liable to fragment.



#### Thermal Cabinets

High-precision heating and combined heating and cooling thermal cabinets are available in two models.



#### Furnaces

For high temperature test applications, it offers furnaces for use with all dual column test stands.



## RDM TEST EQUIPMENT LIMITED - UK



### Laboratory & Production Heat Sealers



### Medical Heat Sealers



### Seal / Peel Strength



### Co-Efficient of Friction/Slip



### Hot Tack Seal Strength



### Pulp, Paper, Carton and Board Testing



### Thickness Measurement



### Physical Testing



### Permeation - Barrier Materials



## RDM TEST EQUIPMENT LIMITED - UK



### Package Integrity - Destructive



### Package Integrity - Non-Destructive



### Adhesive & Label Testing



### Ink Rub & Abrasion



### Sample Preparation



### Roll Hardness Testers



### Gloss / Haze / Opacity / Densitometer



### M.A.P. / Headspace Gas



### Laboratory Ovens







ANALYTICAL DIVISION



ENVIRONMENTAL DIVISION



MATERIAL TESTING DIVISION



LIFE SCIENCES DIVISION

# MAXTECH CORPORATION

Analytical, Environmental, Material Testing & Life Sciences Equipment

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