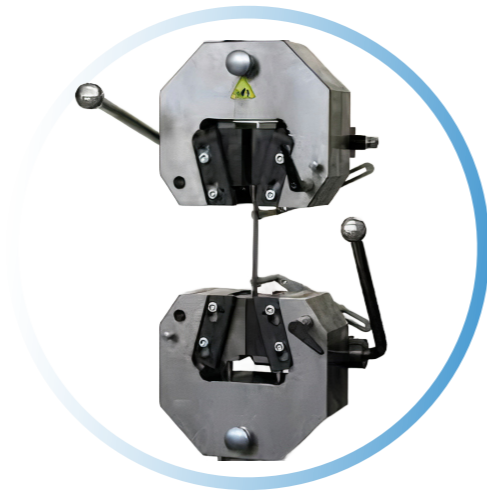


## Tests and Attachments

- ▶ Tensile Strength Test
- ▶ Compression Test
- ▶ 3 Point Bending Test
- ▶ Peeling Strength Test

Grips for testing can be but are not limited to:

- ▶ Hydraulic Grips
- ▶ Pneumatic Grips
- ▶ Peel Test Devices
- ▶ Bending Devices
- ▶ T-groove plates



## Special purposes machines

KEFAC designs special purpose machines that match the needs of your application with top notch quality.

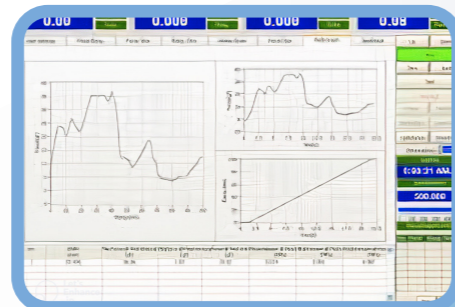
TESTS can be but are not limited to:

- ▶ Elastomeric Bearing Test
- ▶ Manhole Test



## Software

KEFAC's machines are equipped with advanced softwares and easy to handle user interfaces that will meet your needs.



**TESTING MACHINE**

Industrial Intelligence



**KEFAC**

EL-KINAWY ENGINEERING FACTORIES

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## Kefac Testing Machine

KEFAC takes pride in being the first Egyptian firm that specializes in manufacturing intelligent universal testing machines (UTM).

Universal Testing Machines are highly precise instruments essential for evaluating the mechanical properties of materials, such as tensile, compressive, and flexural strength.

Equipped with advanced load cells and high-resolution extensometers so that the smallest variations are guaranteed to be measured.

## Motor Driven Universal Testing Machine

### 1. Single column

These machines have frame capacities of **1 kN, 3 kN** and **5 kN** (for motor screw drive version).



Single column

### 2. Double column

These machines have frame capacities of:

- ▶ **10 kN, 50 kN** and **100 kN** (for motor screw drive version).

#### Common features:

- Force accuracy of 0.5% of applied load across the load cell display range.
- Displacement resolution of 0.01 mm.
- Speed resolution of 0.1 mm/min.
- 150% mechanical over load on load cells.
- 120% mechanical over load on the frame.
- Automatic motor protection over / under voltage and current.
- End stroke protection limit switches.

#### Benefits:

- Compliance with Standards.
- Data Collection and Analysis.



Double column

## Hydraulic Universal Testing Machine

### Double column

These machines have frame capacities of:

- ▶ **300 kN, 600 kN** and **1000 kN** (for Hydraulic drive version).

These machines are designed to test a variety of materials in:

- ▶ **Tension test**
- ▶ **Compression test**
- ▶ **Flexure test**
- ▶ **Shear test**



### Main specifications\* and technical parameter

Model	KTE-05 KTE-10	KTE-50	KTE-100	KTH-300	KTH-600	KTH-1000
Max. Test Force	5KN - 10KN	50KN	100KN	300KN	600KN	1000kN
Accuracy of Test Force	Class 0.5/Class 1					
Measure Range of Test Force	2%-100%FS					
Resolution of Test Force	1/500000FS					
Stress Rate Control Adjustment Range	MPa/s-60MPa/s					
Deformation Resolution (mm)	0.001					
Strain Rate Control Adjustment Range	0.00025/s-0.0025/s					
Strain Rate Control Accuracy	±1%/±2%					
Displacement Resolution (mm)	0.001					
Displacement Rate Control Adjustment Range	0.00025/s-0.0025/s					
Displacement Rate Control Accuracy	±0.5%/±1%					
Stress Strain Displacement Holding Control Range	0.3%-100%FS					
Stress Strain Displacement Holding Control Accuracy	±1%					
Tensile Space (mm)	550	650	650	1000	1000	1000
Compression Space (mm)	300	400	400	600	600	600
Column Space (mm)	350	450	450	650	650	650
Clamping Range of Round Specimen (mm)	Φ1-Φ12	Φ5-Φ20	Φ8-Φ30	Φ10-Φ40	Φ12-Φ50	Φ15-Φ60
Clamping Thickness of Flat Specimen (mm)	1-15	1-20	1-30	2-40	3-50	5-60
Max. Clamping Width of Flat Specimen (mm)	100	150	200	250	250	250
Pressure plate Size(mm)	Φ155	Φ155	Φ155	Φ155	Φ155	Φ300
Overall Dimensions of The Host Machine (mm)	700x450 x1000	1000x800 x1800	1200x900 x2200	1500x1200 x2500	1800x1500 x3000	2000x1800 x3500
Oil Source Console Size (mm)	1150x800x1000					
Total Motor Power (KW)	0.75	1.5	2.2	4	7.5	15
Total Weight (kg)	200	625	960	1780	4000	8000

\*Specifications are subject to changing without notice