Universal Testing Machines
**About Universal Testing Machines**

**Construction**

The high-end design, ease of use and high performance, makes the UTMs ideal for testing applications up to 300kN. The UTMs are equally suitable for routine quality control testing as for complex multi-stage tests. The solution is highly customizable, offering you maximum flexibility for both tensile and compression test.

**Scope**

The SALT by SCITEQ SXW Universal Testing Machines offers a wide range of test used in the plastics industry. The UTMs perform tensile, compression, and bending tests according to a large variety of international standards i.e. ISO 527, ISO 6259, ISO 9967, ISO 9969, ASTM D 638.
**Highlights** Universal Testing Machines

- high accuracy equipment
- user friendly
- solid construction
- customizable test rooms
- 1, 2, 4 columns
- speed range 0.01–500 mm/min
- multiple programmable test set-ups
- accessories such as extensometers, grips and compression plates
- high accuracy interchangeable load cells from 10kN up to 300kN

**Standards**

The SALT by SCITEQ SXW Universal Testing Machines enables you to test according to a large variety of international standards i.e. ISO 527, ISO 6259, ISO 9967, ISO 9969, ASTM D 638.

Please contact us at sales@sciteq.com for further information on the test procedure and please refer to technical specifications in this brochure or contact SCITEQ A/S for more information.
**Features Universal Testing Machines**

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**Highly customizable UTM series**
To ensure optimal performance, the UTMs are equipped with components of the highest quality, such as Mitsubishi servo motors, Motovario gears from Italy, and German ball screws.

**Software**
The software enables users to know intrinsic characteristics of various materials, such as stress, strain, E-modulus, yield point etc. for material property test such as tensile, compression, bend, flaking tests. The software is easy to use and designed to enable a large range of different test procedures according to various international standards.

**Load method**
Servo motor (Mitsubishi), electronic control measuring

**Extensometer**
Encoder type, Position meter, Yield point or compressive type optional

**Accessories**
A large programme of accessories is available: grips, load cells, peel grips, rectangular and circular compression platens, extensometer and various solutions for test of physical characteristics of various materials and products.
CNC copy milling machine
For preparing plastic pipe samples (sometimes referred to as “dumbbell” specimens or “dogbone” specimens) for e.g. tensile tests and other kinds of elongation tests.

Laboratory Saw
The SCITEQ lab saw is specially designed for laboratory preparation of pipe samples for dimensions from Ø 32 mm up to Ø 660 mm as standard and larger on request. The Laboratory Saw makes cutting and chamfering pipes faster, safe and more precise than ever, with the whole process taking place all in the same time.
<table>
<thead>
<tr>
<th></th>
<th>SCT1001-10 &amp; 20kN</th>
<th>SCT1002-30 / 1002-50kN</th>
<th>SCT1002-100kN</th>
<th>SCT1002-100kN—4 column</th>
<th>SCT1002-200 kN</th>
<th>SCT1002-300 kN</th>
<th>SCT1000—2kN – single column</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frame capacity</td>
<td>10/20 kN</td>
<td>30/50 kN</td>
<td>100 kN</td>
<td>100 kN – four column</td>
<td>200 kN</td>
<td>300 kN</td>
<td>2 kN</td>
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<tr>
<td>Crosshead speed</td>
<td>0.01 to 500mm/min</td>
<td>0.01 to 500mm/min</td>
<td>0.01 to 500mm/min</td>
<td>0.01 to 500mm/min</td>
<td>0.01 to 500mm/min</td>
<td>0.05 to 500mm/min</td>
<td>0.01 to 500mm/min</td>
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<tr>
<td>Crosshead travel</td>
<td>1200mm</td>
<td>1300mm</td>
<td>1400mm</td>
<td>2800mm</td>
<td>1200mm</td>
<td>1500/1600mm</td>
<td>1200mm</td>
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<tr>
<td>Width between columns</td>
<td>460mm</td>
<td>470mm</td>
<td>500mm</td>
<td>950mm</td>
<td>550mm</td>
<td>660mm</td>
<td>-</td>
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<tr>
<td>Stroke resolution</td>
<td>0.001 mm</td>
<td>0.001 mm</td>
<td>0.001 mm</td>
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<td>0.001 mm</td>
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<tr>
<td>Force range</td>
<td>4 steps</td>
<td>4 steps</td>
<td>4 steps</td>
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<tr>
<td>Controller</td>
<td>LCD Digital indicator</td>
<td>LCD Digital indicator</td>
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<tr>
<td>Power supply</td>
<td>220VAC 50, 60Hz, single phase</td>
<td>220VAC 50, 60Hz, 3 phase</td>
<td>220VAC 50, 60Hz, 3 phase</td>
<td>220VAC 50, 60Hz, 3 phase</td>
<td>220VAC 50, 60Hz, 3 phase</td>
<td>220VAC 50, 60Hz, 3 phase</td>
<td>220VAC 50, 60Hz, 3 phase</td>
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<tr>
<td>Dimensions</td>
<td>850 x 650 x 1500mm</td>
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<td>850 x 650 x 1500mm</td>
<td>850 x 650 x 1500mm</td>
<td>850 x 650 x 1500mm</td>
</tr>
<tr>
<td>Weight</td>
<td>200 kg</td>
<td>600 kg</td>
<td>1200 kg</td>
<td>1500 kg</td>
<td>1200 kg</td>
<td>1500 kg</td>
<td>70 kg</td>
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Service & Support

Service agreements

SCITEQ offers service agreements for all SCITEQ equipment, meaning specialized service engineers will visit the customer annually for service and calibration of equipment.

Installation & Training

SCITEQ offers onsite installation of new SCITEQ equipment and onsite or remote training of the operating personnel that are going to use the equipment.

Support online & on-site

SCITEQ offers online and on-site support on all SCITEQ products, for fast and effective problem solving, training, setup, etc.