

function

The **SCITEQ SXW** Series Material Testing Machine combines high performance, flexibility and ease of use. Ideal for testing applications up to 100kN. Designed equally for routine quality control testing and for performing complex multi-stage tests. Complies with ISO178, ISO 527, ISO 6259, ISO 9969, ASTM D 638, ASTM D 790.

highlights

- high accuracy equipment
- superior software package
- solid construction
- user friendly
- many accessories available
- multi functional

features

- Load measuring system exceeds the requirements of all recognised international standards
- Uses high accuracy interchangeable load cells (0.5% of reading)
- Crosshead travel 1150 mm (Optional 1400mm travel)
- Speed range 0.05– 500 mm/min (0.002 to 19.68 in/min)
- Saves up to 600 test results
- 3 programmable test set-ups (tensile, compression and bending)
- Ring stiffness programmable test set-up is optional
- 8 inch touch LCD colour display with intuitive operator interface
- Extensometer, inner diameter measurement system and ring stiffness software is available as options
- Can be placed on a table or on the floor for large sample/complete assembly testing
- PC software for material testing and data analysis is optional (touch screen is not operational when PC software is connected to SXW Material Testing Machine).



construction

The machines use high accuracy interchangeable load cells for tension, compression and bending through zero force measurements.

The SXW-series are microprocessor controlled, incorporating world proven 32-bit technology for highly accurate load measurement and rapid data acquisition. The machines feature an integral backlit 8 inch touch LCD colour display with intuitive operator interface which is easy to read. It displays test and set-up information. The touch screen displays prompts and menus, which guide the user through machine operations and feature a choice of user-selectable display languages.

The high stiffness frame incorporates a crosshead guidance system to prevent side loading of the test sample. Max. crosshead travel 1150mm (extended version 1650mm) and max. tensile travel 900mm (extended version 1400mm)

The stand alone system is capable of storing up to 600 test results from a choice of 3 programmable test set-ups. Connected to a PC (optional) running data analysis software (optional) it is possible to analyse and display test data in user definable ways.

A large programme of accessories is available: grips, load cells, peel grips, rectangular and circular compression platens, extensometer, inner diameter measurement system for ring stiffness testing and ring stiffness software.

We wish to give our partners the tools to produce to the highest standard, while helping them to produce as cost-effectively as possible with Q.C. tools throughout the factory.

associated equipment ▲ essential equipment

load cells	grips	compression platens	extensometer	inner diameter measuring	ring stiffness software	PC analysis software	die cutter	copy miller	SCITEQ — A Brand of Quality
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	SXW 10kN (EXT)	SXW 20kN (EXT)	SXW 30kN (EXT)	SXW 50kN (EXT)	SXW 100kN (EXT)
force range:	10kN	20kN	30kN	50kN	100kN
crosshead speed:	0.05 to 500mm/min	0.05 to 500mm/min	0.05 to 500mm/min	0.05 to 500mm/min	0.05 to 500mm/min
speed accuracy:	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%
tensile travel range:	0-900mm (0-1400mm)	0-900mm	0-900mm	0-900mm	0-900mm
crosshead travel:	0-1150mm (0-1650mm)	1150mm	1150mm	1150mm	1150mm
width between columns:	406mm	406mm	406mm	406mm	406mm
load resolution:	< 0.005% of load cell used (max)	< 0.005% of load cell used (max)	< 0.005% of load cell used (max)	< 0.005% of load cell used (max)	< 0.005% of load cell used (max)
load cell accuracy:	± 0.5% of reading	± 0.5% of reading	± 0.5% of reading	± 0.5% of reading	± 0.5% of reading
load measurement range:	0.2-100% of full scale	0.2-100% of full scale	0.2-100% of full scale	0.2-100% of full scale	0.2-100% of full scale
crosshead travel resolution:	< 1 micron	< 1 micron	< 1 micron	< 1 micron	< 1 micron
data sampling rate:	5kHz	5kHz	5kHz	5kHz	5kHz
extensometer resolution:	< 6 micron	< 6 micron	< 6 micron	< 6 micron	< 6 micron
display:	8 inch touch screen LCD colour display with back light	8 inch touch screen LCD colour display with back light	8 inch touch screen LCD colour display with back light	8 inch touch screen LCD colour display with back light	8 inch touch screen LCD colour display with back light
load measuring system:	Exceeds the requirements of BS EN ISO 7500-1, ASTM E4, DIN 51221	Exceeds the requirements of BS EN ISO 7500-1, ASTM E4, DIN 51221	Exceeds the requirements of BS EN ISO 7500-1, ASTM E4, DIN 51221	Exceeds the requirements of BS EN ISO 7500-1, ASTM E4, DIN 51221	Exceeds the requirements of BS EN ISO 7500-1, ASTM E4, DIN 51221
software for tensile, compression and bending:	included	included	included	included	included
ring stiffness software:	optional	optional	optional	optional	optional
supply voltage:	220VAC 50Hz 1kVA, single phase three wires	220VAC 50Hz 1kVA, single phase three wires	220VAC 50Hz 1kVA, single phase three wires	220VAC 50Hz 1kVA, single phase three wires	220VAC 50Hz 1kVA, single phase three wires
dimensions:	750mm×478mm×1915 mm 750mm×478mm×2415 mm (EXT)	750mm×478mm×1915 mm 750mm×478mm×2415 mm (EXT)	750mm×478mm×1915 mm 750mm×478mm×2415 mm (EXT)	750mm×478mm×1915 mm 750mm×478mm×2415 mm (EXT)	750mm×478mm×1915 mm 750mm×478mm×2415 mm (EXT)
weight:	300 kg (EXT: 380kg)	300 kg (EXT: 380kg)	300 kg (EXT: 380kg)	330 kg (EXT: 410kg)	330 kg (EXT: 410kg)
operating temperature:	5°C to 35°C	5°C to 35°C	5°C to 35°C	5°C to 35°C	5°C to 35°C



Wedge grips



Three point bending jig



Circular direct compression platens

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associated | equipment | essential equipment

load cells	grips	compression platens	extensometers	inner diameter measuring	ring stiffness software	PC analysis software	die cutter	copy miller
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