



Shear Measurement Unit (SMU)

Shear Measurement Unit (SMU)

- Designed for horizontal force measuring applications
- Up to 500kgf, bi-directional
- Integrated dimmable cold light source
- Easy to change without use of tools
- Sensor accuracy $\pm 0.1\%$ of range



SMU mounted

Cost effective solution that can be fitted to any XYZTEC bond tester

With the Shear Measurement Unit (SMU), XYZTEC offers a dedicated single load cell cartridge for measuring all kinds of horizontally tested bonds, using the shear method; either destructive or non-destructive. Typical applications include gold wire ball shear, solder ball shear or die shear testing.

A SMU has one sensor or load cell mounted. The Condor software automatically detects what measurement unit is installed on the system and knows even when to ask for another unit, if the required sensor does not match. Through software, five force ranges are available for the user.

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Other offices

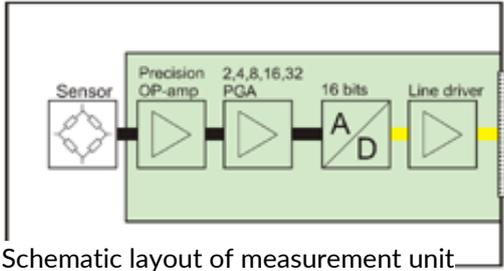
- Germany
- Taiwan
- Thailand
- United Kingdom
- USA: California
- USA: Massachusetts
- [Distributors](#)

Bond testers

- Condor *Sigma*
- Condor *Sigma Lite*
- Condor *Sigma W12*
- Condor *150HF*

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As the 16-bit AD circuitry is located inside the SMU, the connection to the Condor platform is pure digital. This provides a very robust, reproducible and accurate way of measuring. The serial number, manufacturing data and calibration data is stored in flash memory inside to offer full traceability according ISO-9001.

SMU specifications

Available measuring sensors	Software selectable force ranges
Shear 2N	50gf, 100gf, 200gf, 400gf, 800gf
Shear 20N	500gf, 1kgf, 2kgf, 4kgf, 8kgf
Shear 100N	2.5kgf, 5kgf, 10kgf, 20kgf, 40kgf
Shear 500N	12.5kgf, 25kgf, 50kgf, 100kgf, 200kgf
Shear 1000N	31.25kgf, 62.5kgf, 125kgf, 250kgf, 500kgf

Sensor accuracy ±0.1% of nominal force range

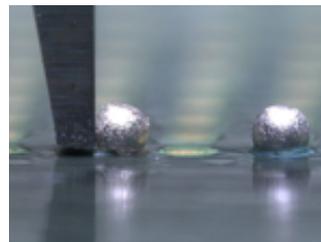
Specifications subject to change without prior notice.

Contact us

Did we catch your attention? Please [contact us](#) for more information or to request a demonstration or a quotation.

Relevant applications

- Ball shear
- Cavity shear
- Die shear
- Overhanging die
- Passivation layer gold ball shear
- Total ball shear / zone shear
- Wedge and ribbon shear



Solder ball shear

Special applications

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Please [contact us](#) if you have any special tweezer requirements.

Relevant test types

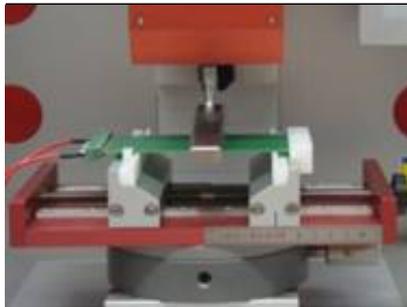
A wide variety of [test types](#) are relevant for this industry, among which are:

Pull tests

- Ribbon pull
- Thick wire
- Thin wire



Thick aluminium wire pull test



Bending test on FR4

Bending test

- 3 point
- 4 point
- Uni-axial

Special applications

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