



Consider choosing a Revolving Measurement Unit (RMU) instead of a single head (cartridge) to reduce the total cost of ownership and increase productivity

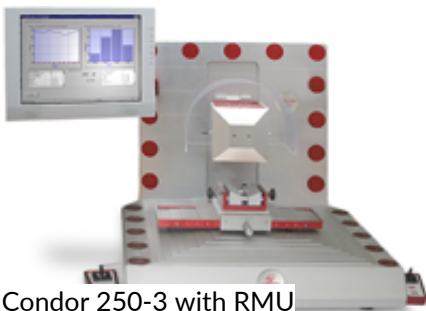
Revolving Measurement Unit (RMU) for Condor Classic

- All-in-one unique multiple sensor measurement unit; up to four sensors on one head
- Horizontal and vertical force measuring applications
- Up to 40kgf, bi-directional
- Motorized and programmable rotation of the pull tooling
- Integrated dimmable cold light source
- High UPH as the computer selects the measurement sensor automatically
- Sensor accuracy $\pm 0.1\%$ of range

[Click here](#) for the **Condor Sigma RMU**, which has 6 sensor positions and goes up to 200kgf.

High throughput and reliability

With the Revolving Measurement Unit (RMU), XYZTEC offers an unique multiple load cell cartridge for measuring all kinds of horizontally and vertically tested bonds, using pull, peel, push or shear methods; either destructive or non-destructive. The key point is the automatic selection of the pull or shear tool and corresponding measurement sensor by software. Typical applications include wire pull testing using a hook, solder ball pull testing using tweezers, gold wire ball shear, solder ball shear, die shear testing as well as full automatic testing.



Condor 250-3 with RMU

The RMU is equipped with a built-in 360° rotary motor for manual or automatic tool alignment

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- [Distributors](#)

Bond testers

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

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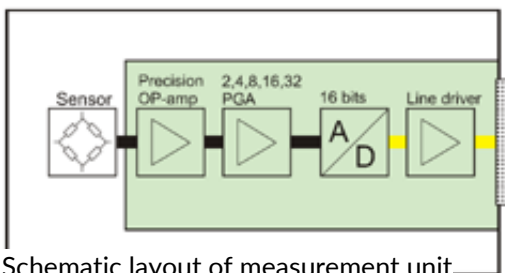
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of the pull hook to the sample under test. The maximum load of the RMU is limited to 40kgf for all four sides. If higher forces are required to measure, we offer our separately sold single Measurement Units, which are capable of loads up to 500kgf.

An RMU has up to four sensors or load cells mounted. The Condor software automatically detects what measurement unit is installed on the system and knows even when to rotate the RMU into the correct measuring position automatically within a few seconds. The operator benefits as he does not have to change test tools or load cartridges manually, which is a major cause for defects when using single load cell cartridge, as with our competition.

With the RMU mounted on the Condor platform, XYZTEC offers a unique possibility to provide fully automatic execution of pull and shear tests on one sample, without the need for operator invention. The advantages are clear: constant high UPH, improved repeatability and reproducibility and therefore increased Cpk results.



Schematic layout of measurement unit.

As the 16-bit AD circuitry is located inside the RMU, 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.

RMU specifications

Available measuring sensors	Software selectable force ranges
Pull 2N	50gf, 100gf, 200gf, 400gf, 800gf
Pull 20N	500gf, 1kgf, 2kgf, 4kgf, 8kgf
Pull 100N	2.5kgf, 5kgf, 10kgf, 20kgf, 40kgf
Shear 2N	50gf, 100gf, 200gf, 400gf, 800gf
Shear 20N	500gf, 1kgf, 2kgf, 4kgf, 8kgf
Shear 100N	2.5kgf, 5kgf, 10kgf, 20kgf, 40kgf

Sensor accuracy ±0.1% of nominal force range

Specifications subject to change without prior notice.

For higher forces, please choose a dedicated **pull & push** or **shear** unit.

Contact us

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

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