

Device to Test Tightening by Ultrasounds

- **Fast**

- **Economic**

- **Simple**

- **Transportable**

- **Non
destructive**

Controls and measurements for your quality!

Due to this new device, gain in **quality** and **safety** : it tests tension in bolts to check that they are neither too, nor insufficiently tight and it allows also to detect if bolts are not straight, twisted... So, be sure that your assemblies are **tight in an optimal way**, and thus that they are **less fragile!**

Moreover, **save time** because this system is transportable, easy to use and measurements are done in the same time as the tightening : it does not imply added handlings !

Finally, **save a lot of money by increasing the lifespan of your assemblies**. But also, by not wasting more time to do some tests of fragility which deteriorate materials and take a lot of time : tests by ultrasounds are **non destructive** and **fast** !

ULTRA-RS

Technopole de l'Aube en
Champagne

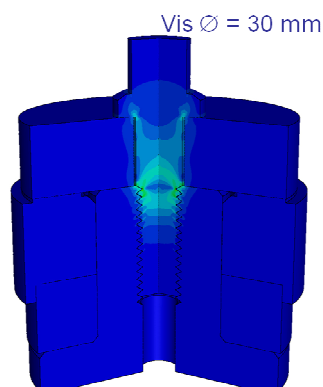
2, Rue Gustave Eiffel
10 430 Rosières près

Troyes
FRANCE

Tél. : +33 (0) 3 25 72 92 60

Fax : +33 (0) 3 25 83 21 80

a.lemarchand@ultrars.fr



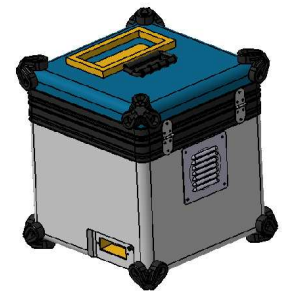
Product Description

The device of measurement is composed by an electronic module and by a socket of tightening instrumented of an ultrasonic sensor.



The socket makes it possible to **tighten while measuring** the prestressed in bolts. It is based on a standard one with a square hole to place a spanner ratchet. And an assembly with an ultrasonic sensor is placed in the center of this socket.

The electronic module contains the generator of electric impulses and the central processing unit, in which the capture card is installed. During the starting of the module, all the material starts and the « Ultra-sys » software, allowing measurements, is launched **automatically**.



At the beginning of a test, some electric impulses are emitted by the generator. Then, these ones are transformed in ultrasounds by the sensor, and they are sent in bolts. Arrived at the end, ultrasounds make an echo and return towards the sensor. The ultrasonic signals corresponding to the prestressing of tightening are **treated and post on the control screen** of the electronic module. All these operations are done **in real times**, there is no waiting to see the results!

Then, it is possible to save and print a summary of each test to keep a **traceability**.

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Ultra-sys software

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Examples of companies which already trust Ultra-RS:

- AREVA
- Snecma
- EADS
- EDF
- Cezus Framatome
- SNCF
- GDF
- DNV