

Control of the Tightening Force by Ultrasound technique



Controlled tightening is one of ULTRA RS specialties. Our State-of-the-Art technology allows accurate measurement of tightening force on bolts by ultrasound.

Principle: **real time** measurement

Quality: **5% accuracy** or better in measured pretension

Adaptable for different bolts and dowels,

Practical and fast.



The device consists of:

- Torque meter or hydraulic torque wrench,
- Socket instrumented by ultrasound sensor,
- and the tailored ultrasound device.



Depending on the need of our customers, we either perform controlled tightening on their behalf or tailor-make a device and provide necessary training and hotline assistance to our clients. Moreover, Ultra RS can supply tailor-made hydraulic torque tool and combine the two devices for an efficient and accurate execution.



We engage with our customers in the following steps in each project:

- * Study and advice on project specification and requirements
- * Development of measuring device adapted to the application
- * Parameterization of our proprietary measurement software
- * Control and fine-tuning of the end-to-end arrangement using real scale mock-ups
- * Qualification test campaign and associated reporting
- * Organization of training and hotline support

ULTRA-RS

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