

Meet our R&D engineer

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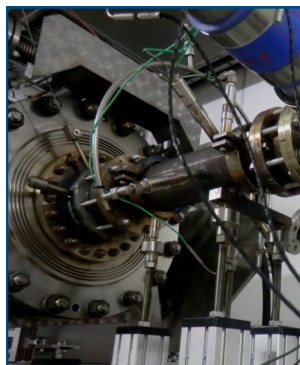
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*Andrea RINALDI,
R&D engineer*

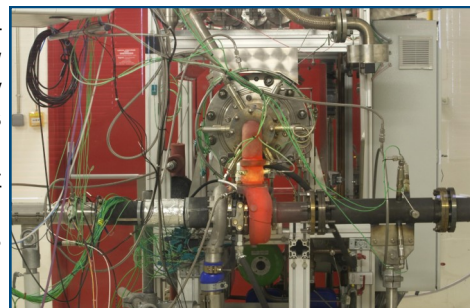


Aware of possessing an outstanding R&D innovative tool, the CRITT M2A is working on continuous improvement of its Turbocharger Test Centre.

Within this context, an R&D engineer joined our team at the end of 2011, in order to bolster our Research & Development activity « There are several development possibilities. The general guideline planned with the Management consists in improving CRITT M2A performance. The aim is clear, but there are many ways to reach it and the first studies will exclusively be dedicated to the capability evolution of our gas benches ».

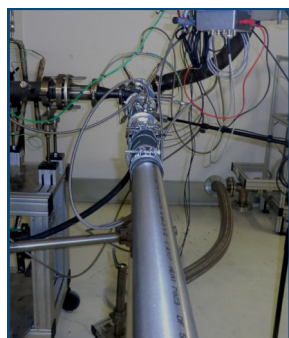
This consists in improving the repeatability procedures of Turbocharger benches and carrying out various studies to expand cartographies. On the one hand, we want to make sure our customers have the measurement & cartography reliability on our test benches. And on the other, we want to identify our limits and the possibilities of enhancing our facilities.

« We consider several aspects of R&D. However, the downsizing requests and low flow rate/high temperatures tests will obviously influence our work. These studies will allow us to perform the durability tests on miniaturized turbochargers. The management of transient periods due to speed charges will be improved as well as tests on dual stage compressors and on tools such as a Compressor Closed Loop Unit ».



« The thread for its process, and for the next ones, will be to define the CRITT M2A standard».

Indeed, since the opening of our Turbocharger Test Centre, the CRITT M2A has become a provider reference which will allow preservation of its independence and flexibility.



The CRITT M2A has already been solicited by other European countries to participate in Research programs, aiming at developing the engines of the future, in conformance with European standards and able to answer current economical & ecological problematics.

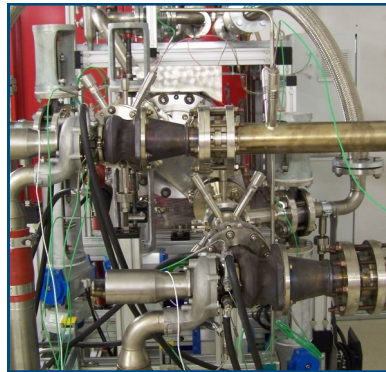
Our team, now strengthened, is ready to ensure a meticulous follow-up of these proposals and to maintain our Turbochargers Test Centre at the cutting edge of innovation.



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Something New at CRITT M2A

Always attentive to its customers and partners, the CRITT M2A will receive next June a new switch-unit (or thermal shock unit) for its Turbocharger Test Centre. Provided by Kratzer Automation, it was specially designed to be adapted on several of our gas stands.



*Facility for tests
on thermal shock Unit*

By a reciprocating system between hot air and compressed air, the switch-unit allows thermal shock tests to be carried out simultaneously on two turbochargers .

This new facility, which will complete the existing thermal shock unit will offer an enlarged temperatures amplitude up to 1050°C and pressures up to 2 Bar. For optimal use, the pressure can even reach 3 Bar but for lesser temperatures.

Thanks to the above, the CRITT M2A and its Turbocharger Test Centre remains at the cutting edge of technology and will soon be able to increase the range of proposed tests.

New brake for engine bench

One of the engine endurance benches of CRITT M2A was recently equipped with a Borghy brake, which develops more power than the previous one.

Now, two different benches are available, extending our range of services:

- 220 kW / 610 Nm / 12000 rpm
- 300 kW / 900 Nm / 10000 rpm

This new low inertia brake (0.18 kgm²) is adapted to a majority of stabilized normalized tests and offer an excellent reliability for torque and speed measurement.

Parc de la Porte Nord
rue Christophe Colomb
62700 BRUAY LA BUISSIÈRE

Telephone: +33 (0) 3 91 800 202
Fax : +33 (0) 3 91 800 201
E-mail: crittm2a@crittm2a.com

Telephone: +33 (0) 3 91 80 02 02
Fax : 03 91 80 02 01
Messagerie : crittm2a@crittm2a.com

CRITT M2A
on the web:
www.crittm2a.com

Agenda 2012

**Institution of
MECHANICAL
ENGINEERS**

- **2012, May the 15th and 16th** : The CRITT M2A was present on its stand during the 10th International Conference on Turbochargers and Turbocharging, in London, organized by the IMECHE engineers Institute of London.
- **2012, June the 12th, 13th and 14th**: The CRITT M2A will exhibit at the Automotive Testing Expo Europe in Stuttgart, stand n° 1952
<http://www.testing-expo.com/europe/>
- **2012, August the 2nd and 3rd**: The CRITT M2A will participate for the first time in the Automotive Testing Show, in Sao Polo, Brasil.
- **2012, September the 13th and 14th**: The CRITT M2A will participate in the Annual Conference in Dresden, Germany.

