27/11/2015

groupe TRA-C industrie

www.tra-c.com

5TH EUROPEAN JOINING PLATFORM

Create the industrial innovation

Innover les possibles de l'industrie

Industrial Challenges

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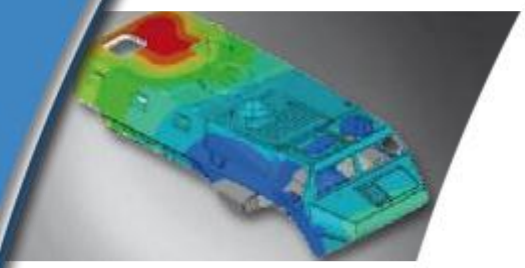


SUMMARY

1. TRA-C presentation
2. Industrial Challenges

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GENERAL OVERVIEW

- Based in France (Lyon Area)

- Expert in metal working and **joining by welding**, TRA-C industrie supports its customers with its
  - **Engineering capacities**
  - **Production & joining Know-How**
  - **Training experts team**

- Figures
  - created in 2001
  - 80 employees

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REFERENCES

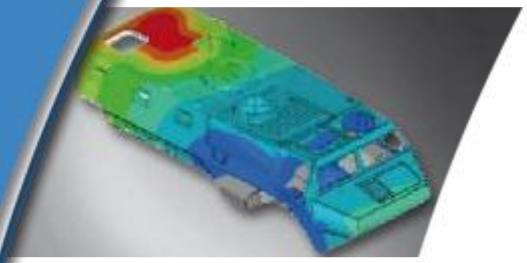
Business segment

- Defence
- Transportation
- Energy (Nuclear, Heat Exhanger…)

Main customers

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OUR 3 CORE BUSINESS

Provide complex systems from design to production

Turn-key solution for **Friction Stir Welding (FSW)**

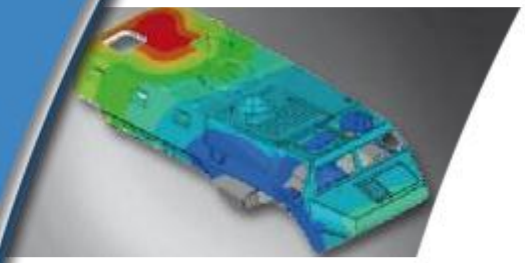
Technical training on customer and/or training center

STA
Soudage Technique d'Auvergne

FORM in PROD

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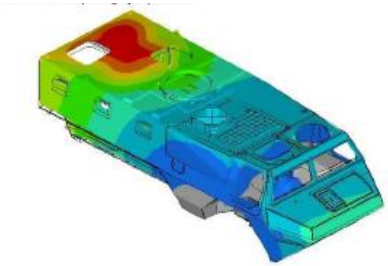




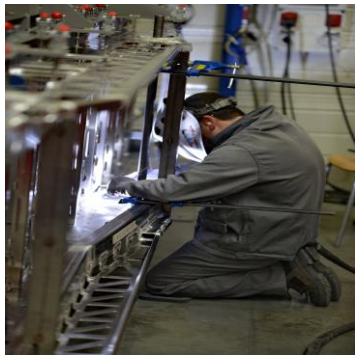




FROM DESIGN TO PRODUCTION COMPLEX SYSTEMS





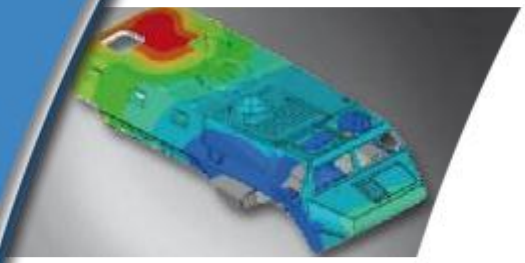






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TURN-KEY SOLUTION FOR FRICTION STIR WELDING (FSW)

- R&D development and process qualification (welding parameters and mechanical specification)
- Production capability
- Machine and tools developments

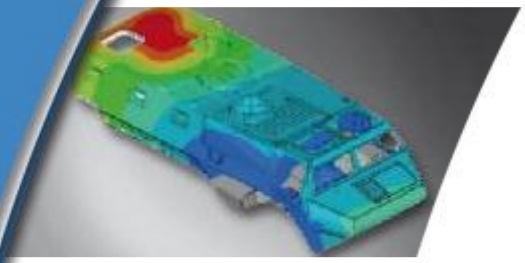






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TECHNICAL TRAINING

- Trough its expert team TRA-C can provide:
  - Technical training (welding and metal fabrication) in its training center
  - Customer training on site













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INDUSTRIAL CHALLENGES

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INDUSTRIAL CHALLENGES



- **Training** and recruitment: How to attract skill resources in SME companies and how to train them frequently
- Permanent **Innovation**
- Continuous **investment** to stay competitive and bring added value to the customer: **Factories of the Future**

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TRAINING



- **CHALLENGES**
  - Added value business (Energy, Defense, Airspace) request skill resources and high level of qualifications
  - Keep the technical competencies permanently up-to-date
  - Young generations are not attracted by Metallurgy sector, SME have difficulties to recruit



- **POSSIBLE SOLUTIONS**
  - Develop Continuous training method (E-Learning, Virtual welding method..)
  - Increase the apprenticeship, short courses in partnership with SME
  - Set-up internal training center

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INNOVATION



- **CHALLENGES**
  - R&D with no quick return on invest is not always the priority of SME
  - How to find Innovation's idea
  - IP protection

- **POSSIBLE SOLUTIONS**
  - Participate to National and/or EU program to get funding
  - Innovation comes from collaborative work and networking
  - Develop partnership with universities and private partners

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FACTORIES OF THE FUTURE

- **CHALLENGES**
  - How to find Funding?
  - How to make it happen?
  - How to find the right partner?

- **POSSIBLE SOLUTIONS**
  - Attend to the *5th European Joining Platform General Assembly in Bruxelles on November 20th*