

ROBOTIC WELDING CELL AND WAAM (Wire Arc Additive Manufacturing)

A YASKAWA cell made up of a MA2010 welding robot, a robot gripper MH24, a two axis positioner MT1-750 and a FRONIUS welding system TPS 400-i

**IRT
JULES
VERNE**



Offer

- Support for the design of optimised parts for WAAM (Wire Arc Additive Manufacturing) and robotic welding
- Development of parts (demonstrator, prototype)

Our R&D work

- Process development: improvement in understanding the impacts of the process on the materials and on the manufactured parts.
- Study of the influence of process parameters
- Process optimisation (robustness, in situ control, ...)
- Innovative design: development of core technology related to the DFAM methodology (Design For Additive Manufacturing) and process modelling
- Strategy development for ALM - Additive Layer Manufacturing (wire) and PB - Patch Building (wire and plates) or MAM - Mosaic Additive Manufacturing

Characteristics

ROBOT EQUIPMENT

6 axes welding robot - MA 2010 (master)

Max payload	10 kg
Max range	2010 mm

6 axes manipulator robot - MH24 (slave)

Max payload	24 kg
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2 axes positioner - MT1-750

Max payload	750 kg
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WELDING EQUIPMENT

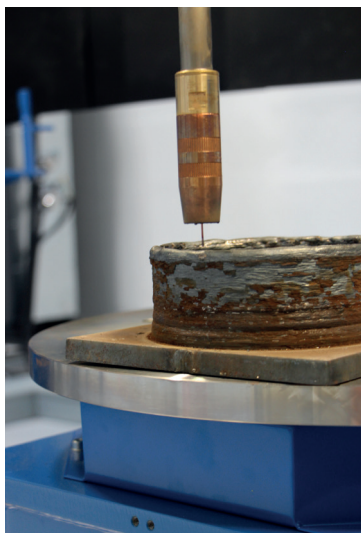
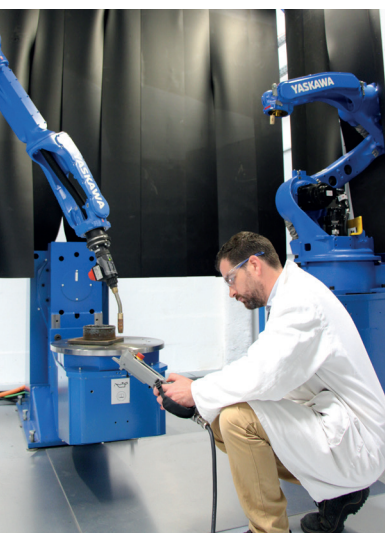
Welding system MIG/MAG FRONIUS - TPSi 400

Process monitoring

Video, temperature, electric

SOFTWARE

MotoSim and IM Additive Manufacturing



Sales contact
business@irt-jules-verne.fr

Press contact
communication@irt-jules-verne.fr

www.irt-jules-verne.fr

