

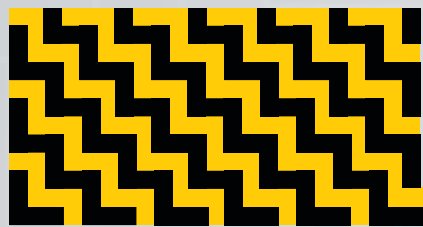


# **CARBON COMPOSITI**

**COMPANY FOR RESEARCH, DESIGN AND PRODUCTION OF COMPOSITE MATERIAL**







# CARBON COMPOSITI

## OVER 25 YEARS OF COMPOSITE MATERIAL SOLUTION

Carbon Compositi S.r.l. started its activity as a technical advisor company in 1992. Head office and Plant are in Basiliano (UD). We offer consultancy to producers and end users of articles manufactured in composite materials and we aim at offering technical assistance and engineering support during all of the G.R.P. production phases, from the design and /or production of prototypes, to structural verification and final testing of every type of G.R.P. structure.

**Our mission is SOLUTIONS IN COMPOSITE MATERIAL.**

### Main activities:

- Engineering and support for users and producers of composite material goods.
- Inspections and surveys
- Installation and maintenance
- Production of features in composite material



Associated with Confindustria - Udine  
(Confederation of Italian Industry) and  
and Enterprise Network "TOGETHER FOR TOMORROW"

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Banking Relationship: Unicredit – Deutsche Bank





## ENGINEERING AND SUPPORT FOR END USERS AND PRODUCERS OF COMPOSITE MATERIAL

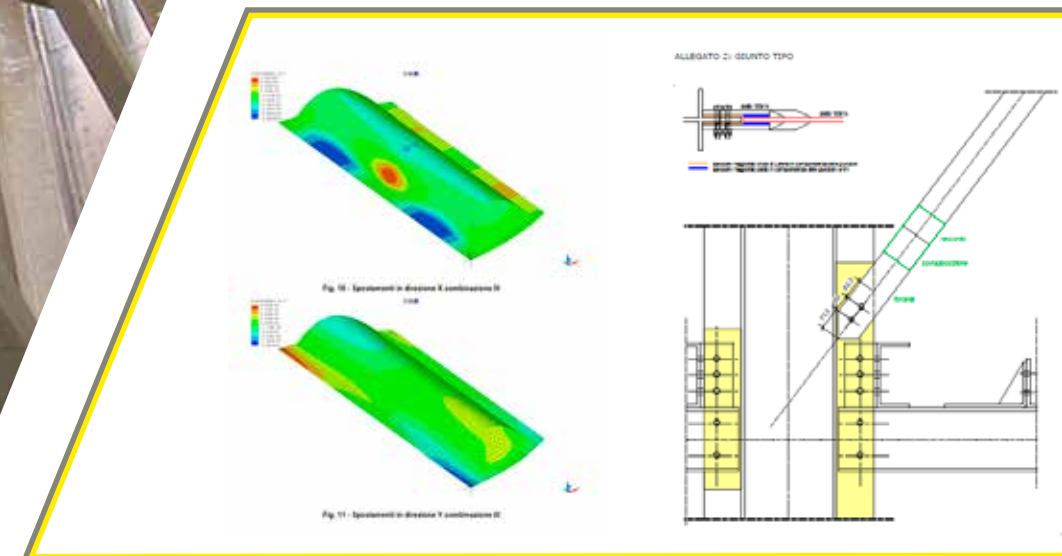
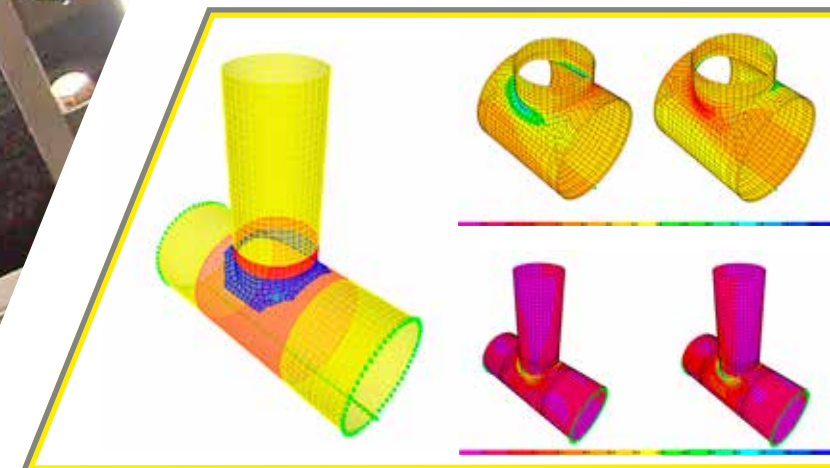
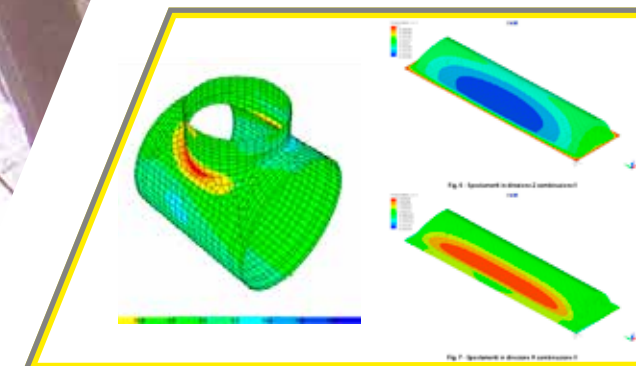
The Engineering sections of Carbon Compositi Srl besides managing the design of the features, realized and produced in the factory, provides engineering support for both users and producers of composites items.

Especially, structural inspections for tanks in GRP according to the UN EN 13121.3 (2016) standards are carried out, such as structural verification to the seismic activities NTC 2018.

The design of structures in composite material, in case of complex geometries, is realized with help of software that uses the finished elements methods (FEM), in particular LISA FET (Sonnenhof Holdings) Version 8.1.0 and WINSTRAND, ENEXSYS SRL.

Presently the activation of a software on cloud is foreseen, that allows to check the conformity of the structures of the tanks in GRP with UNI EN 13121 standards; such as the reliability of structures subjected to the earthquake stress, according to the seismic hazard zonation in National building codes applicable.

With this software it will also be possible to check the flanges reinforcements, the basement anchors, the allowable support stresses and external loads, specifically wind and snow.





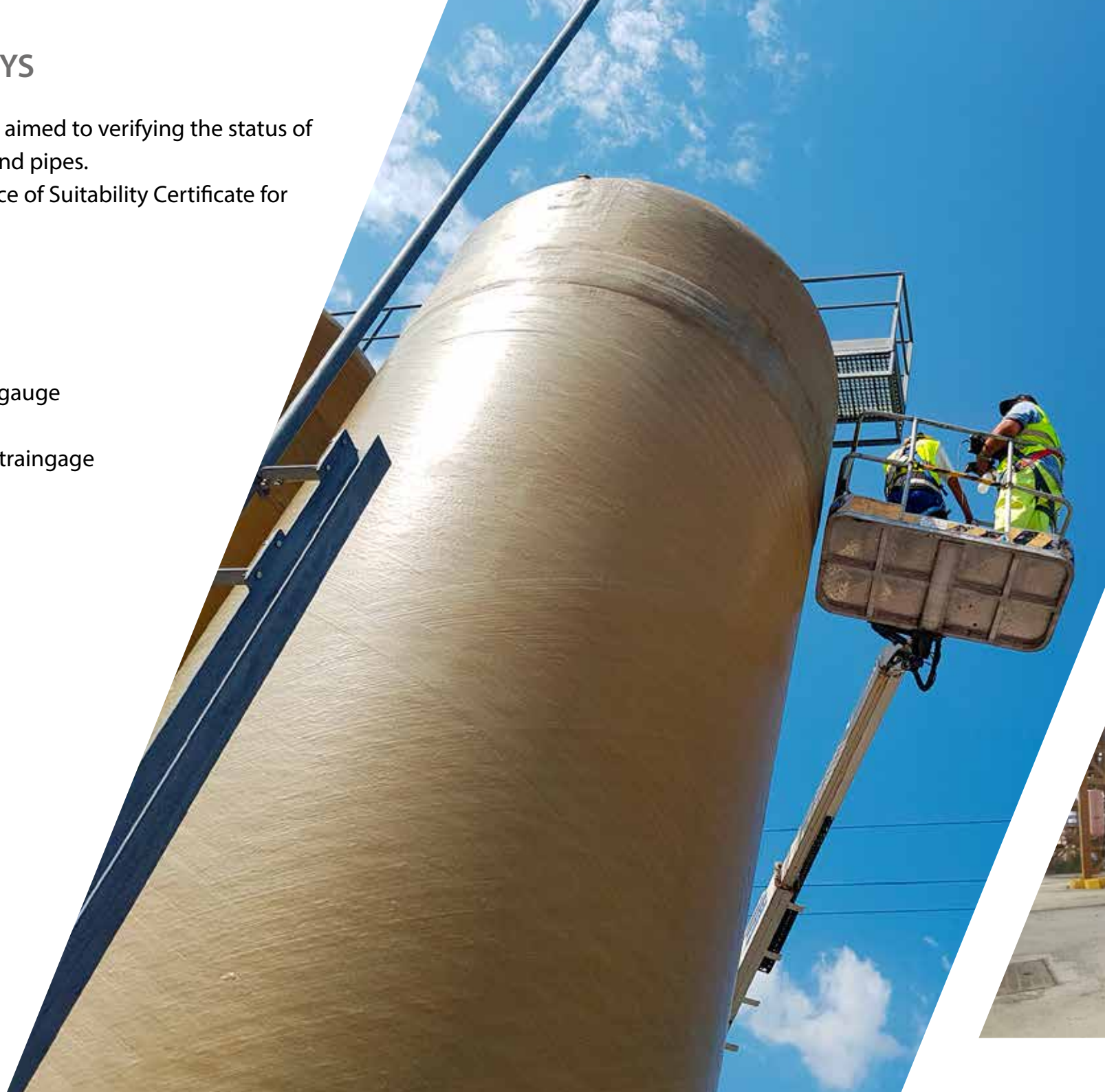
## INSPECTIONS AND SURVEYS

We carry out surveys and inspections aimed to verifying the status of the composite feature mainly tanks and pipes.

Our intervention end with the issuance of Suitability Certificate for employ of the inspected features.

### Checks performed:

- Visual inspection
- Check Hardness Barcol
- Thickness control by magnetic Polygauge
- Ultrasonic Checks
- Deformation checks by Electronic Strainage





## INSTALLATION AND MAINTENANCE

Carbon Compositi manages installation and maintenance of composites parts.

If during the inspection it's necessary to intervene with reparation of replacements, we are skilled to provide the right support for the prompt resolution of the problem.





## PRODUCTION OF FEATURES IN COMPOSITE MATERIAL

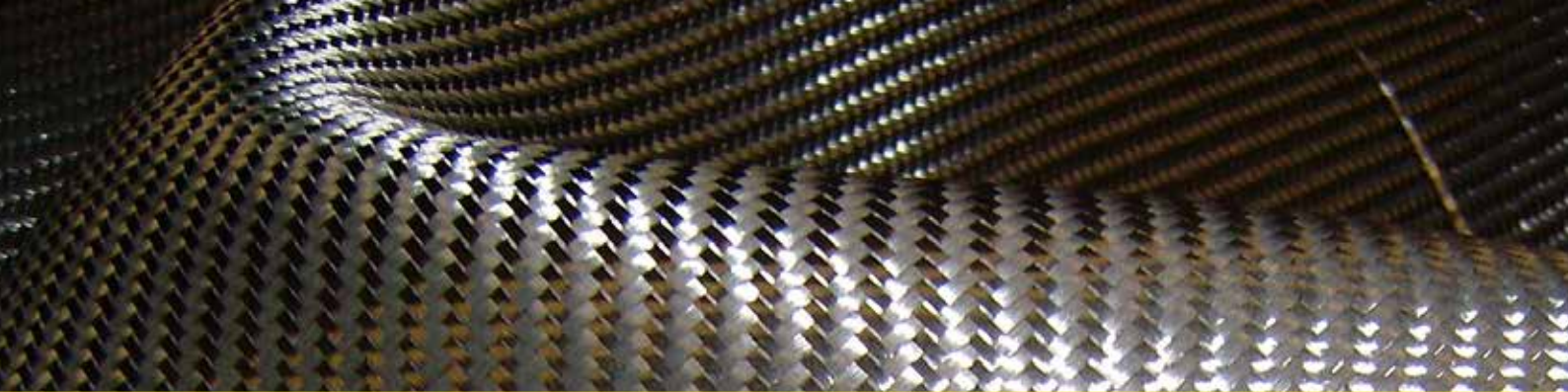
Inside of the production department of Carbon Compositi srl , the features in composites material are realized mainly on customer's request, for which first the design and then the construction, are followed by our several year's experienced Experts and internal Engineering department.

We have recently increased our production capacity thanks to a machine for the production of composites pipes, realized with Filament Winding -technology "FW".

This machine, electronically assisted by CNC, can produce pipes up to the diameter of 600 mm.







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