POLYMERIS
Competitiveness cluster for rubbers, plastics and composites

Techtera

HALL 5, Booth F97

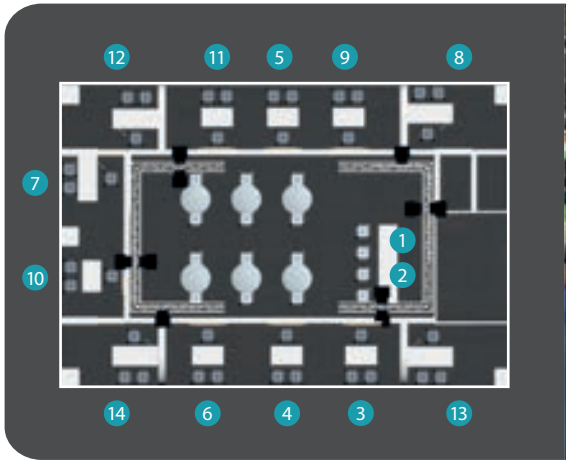
COMPOSITES

TEXTILE

JEC WORLD

The Leading International Composites Show

Summary



Driving innovation across the french composites sector

With nearly 900 members, including industrial companies, academic institutions, and R&D experts, the Polymeris and Techtera competitiveness clusters bring together a leading French ecosystem in the field of composites. Covering the entire value chain – from raw materials to finished products – this dynamic community offers strong industrial capabilities and a high level of innovation to support your projects. The Auvergne-Rhône-Alpes region plays a key role within this national ecosystem, acting as a central hub for expertise and collaboration.

Projects showcase

Automotive / Aeronautic / Energy / Building

VIABLE*

- Project coordinator: VITO
- Funding: Life Program under grant agreement n° LIFE20-ENV-BE-000671
- Estimated end: 2026 • TRL 5

Valorisation of lignin biomass into competitive components gradually replacing BPA in the formulation of epoxy resins.

CONVERTIR

- Project coordinator: Chomarat
- Ended in 2025

Developing a carbon weaving machine by converting an existing NCF glass line into a line dedicated to the production of unidirectional carbon reinforcements.

DISC-AER*****

- Project coordinator: EENUE
- Funding: ANR
- Estimated end: 2028 • 1 < TRL < 3

Low-carbon flying-wing fuselage for electric regional transport using recyclable thermoplastic composites.

ZEVRA***

- Project coordinator: Fraunhofer IWU
- Funding: European Union's Horizon Europe research and innovation programme under grant agreement n° 101138034
- Estimated end: 2026 • 5 < TRL < 7

Zero emission electric vehicles enabled by harmonised circularity.
Use cases: steel, aluminium (wrought, casting and foam), thermoplastics composites (long and continuous fibre-reinforced), unfiled / short fibre plastics, glass, tyres, rare earth elements.

* Co-funded by the LIFE Program
** Funded by the European Union
*** European Union's Horizon 2020 research and innovation
**** bpifrance
***** anr

Architecture / Infrastructure & civil engineering

CALIMERO** Techtera

- Project coordinator : Contactica
- Estimated end: 2025
- 4 < TRL < 7

Calimero is a European Project whose goal is to create a common framework for the Life Cycle Assessment methodologies of certain bio-based industries.

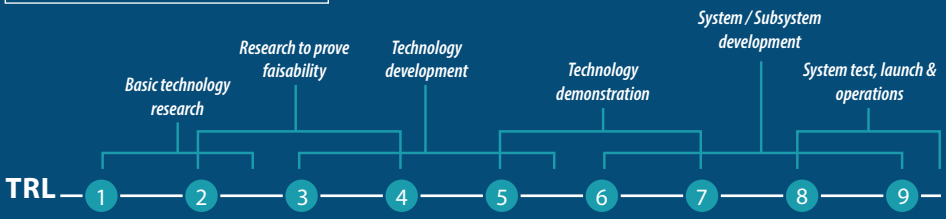
Energy

SMART CABLES**** POLYMERIS

- Project coordinator: Epsilon composites
- Funding: BPI
- Estimated end: 2028
- 5 < TRL < 9

The project aims to build a high-temperature composite cable solution and associated tools, enabling network managers to increase their energy transfer capacity and control it reliably and sustainably.

TRL : Technology readiness level



Environment & Recycling

RECREATE**

- Project coordinator: Politecnico di Milano
- Funding: European Union's under grant agreement n° 101058756
- Estimated end: 2026 • TRL 6

REcycling technologies for Circular REuse and remanufacturing of fiber-reinforced composite mATErials.

MC4**

- Project coordinator: Profactor
- Ended in 2025

MC4 (Multi-level Circular Process Chain for Carbon and Glass Fibre Composites) is a European partnership aiming to establish circular approaches for carbon and glass fibre composites. After a 3 years implementation, MC4 will make the European carbon and glass fibre value chains more circular, independent and competitive.

RECOMBINEUR

- Project coordinator: Canoe
- Estimated end: 2025 • 3 < TRL < 6

Establishing a value chain in Nouvelle-Aquitaine for recycling and reusing high-performance thermoplastic composites reinforced with carbon fibers.

BIONTIER**

- Project coordinator: Forth
- Funding : circular biobased Europe joint undertaking under grant agreement n° 101155925 and UKRI grant agreement n° 10137600
- Estimated end: 2027 • 4 < TRL < 7

Breaking Frontiers in sustainable and circular biocomposites with high performance for multisector.

EOLO-HUBS***

- Project coordinator: Aitiip
- Funding: European Union's Horizon 2020 research and innovation programme under grant agreement n° 101096425
- Estimated end: 2026 • 4 < TRL < 7

Propose and demonstrate novel solutions to recycle high value materials from the wind turbine blades, developing a set of innovative composite material recycling technologies.

** Funded by the European Union

*** European Union's Horizon 2020 research and innovation

THERMOFIRE**

- Project coordinator: Avanzare
- Funding: European union under the grant agreement no. 101112370
- Estimated end: 2026 • TRL 5

Develop novel, lightweight and low-cost bio-based and recyclable thermoplastic composites with enhanced mechanical properties and fire resistance by the incorporation of natural fiber reinforcements and bio-based halogen-free flame retardants as well as to remove the EU's dependence on fossil-based polymers.

BIOSTRUCT**

- Project coordinator: Profactor
- Funded by the European Union
- Estimated end: 2026 • 3 < TRL < 7

BioStruct will develop advanced technical solutions for the precise design and manufacturing of composite parts using bio-materials. From January 2024 and for the next three years, the ten partners will improve the application of bio-composites in structural applications, thereby decreasing the dependency on conventional carbon and glass fiber composites.

BIO-UPTAKE ***

- Project coordinator: Aitiip
- Funding: European Union's Horizon 2020 research and innovation programme under grant agreement n° 101057049
- Estimated end: 2026 • 3 < TRL < 6

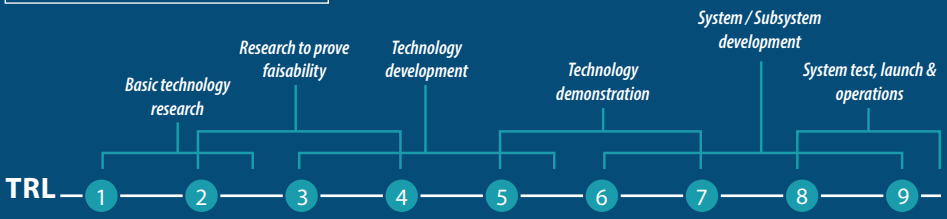
Ensure a sustainable uptake (increase the use by 39%) of bioplastic composites, by driving a double green and digital transformation in the European manufacturing industry.

MAT4EU**

- Project coordinator: Polymeris
- Funding: single market programme Euroclusters call (SMP-Cosme-2024-cluster) under grant agreement n° 101236716
- Estimated end: 2028 • 1 < TRL < 9

Structure an integrated European ecosystem around advanced materials, in close synergy with the Technology council on innovative advanced materials (IAM-I) and the Horizon Europe IAM4EU partnership.

TRL : Technology readiness level



POLYMERIS
Competitiveness cluster for rubbers, plastics and composites

618 MEMBERS

90 R&D PROJECTS IN COMPOSITES FIELD

1,1 bn € IN R&D PROJECTS SINCE 2005

Polymeris is the only French cluster dedicated to rubbers, plastics and composites gathering more than 600 members, among them 380 industrial companies and 135 R&D centers and universities.

Polymeris draws on 20 years of experience in supporting businesses, with in-depth knowledge of the techniques and markets of tomorrow.

Polymeris promotes and develops Innovations for rubbers, plastics and composites industries, thanks to collaborative R&D projects with more than 381 funded projects and more than 40 european ones.

In addition to this activity, Polymeris promotes innovation in education and opens up the companies toward different industriel sectors and international cooperation.

Its main technological added value domains are:

- advanced materials with high mechanical performance for lightweight, functional and smart properties,
- factory of the future as fast automated composite processes including additive manufacturing,
- smart products with integrated electronics for mobility, health, packaging, goods,
- circular and sustainable solutions thanks to high performance bio-based materials, eco-design and recycling loop.

Maxime NOURTIER, Project manager, advanced materials & composites
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Techtera

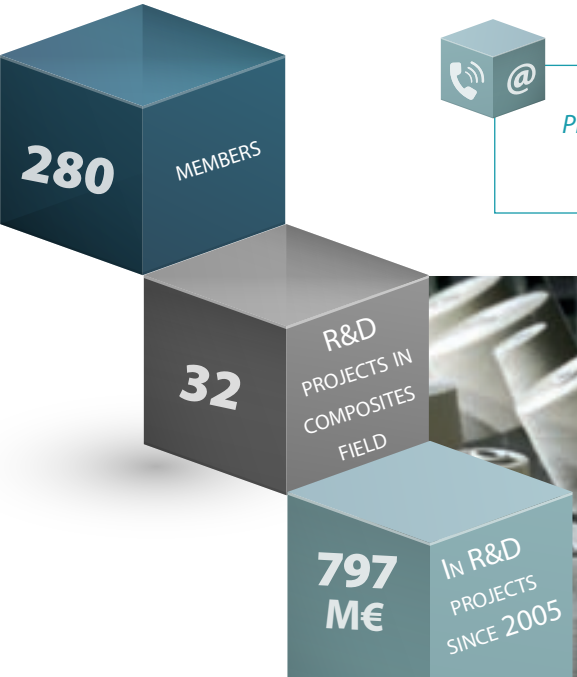
Techtera: source of textile innovation for our future.

Techtera is the French innovation cluster dedicated to textile. It animates a network of more than 280 members with the main objective of boosting competitiveness through collaborative innovation and market access.

The cluster is also involved in structuring actions, for the textile industry and in connection with related sectors and application markets, through interclustering partnerships or European projects. Since 2005, more than 336 collaborative R&D projects labeled and supported by Techtera have been funded, for a total budget of nearly € 797 million.

The cluster also supports its members through:

- innovation and collaborative R&D projects, from the idea to the dissemination of results,
- Increasing innovation levers with insights into the current technological and economic environment,
- The marketing of their innovation through individual or collective support at trade shows and international collective missions.



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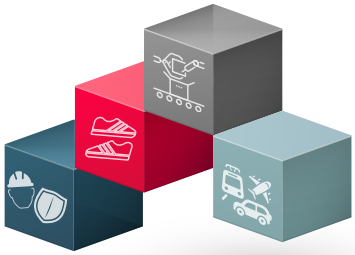

ADDIPLAST GROUP
EN MATIÈRE D'INNOVATION

The Addiplast Group formulates and manufactures engineering thermoplastics (compounds and masterbatches) for injection molding, extrusion, and thermoforming. From natural fibers to glass and carbon fibers, we offer a wide range of compounds with the most demanding mechanical properties and appearance.

Application areas

Mobility, automotive, rail, aerospace, defense, electronics, sports and leisure, consumer goods.

Products

Thermoplastic compounds :

- Addibio Renew® recycled (PIR, PCR, chemical), low carbon footprint
- Addiflam® flame-retardant UL94 V0
- Addilene® polyolefins reinforced
- Addinyl® PA/PARA glass fibers reinforced
- Additer® NIR black detactable
- Additec® ESD & high-performance carbon fibers reinforced.

Innovation

Addibio Renew® GGI 53002 (P/E NF30) is a recycled PP compound reinforced with natural fibers for sustainable applications, reducing weight and carbon footprint, supporting eco-projects without compromising performance. Mass production (TRL 9).

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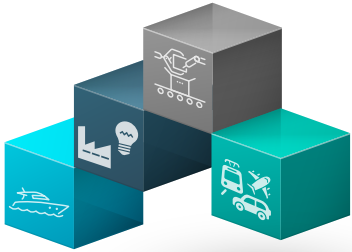

Carbon Waters

Carbon Waters manufactures Graph'Up, a patented liquid graphene additive platform. Graph'Up Optim boosts productivity by slashing cure cycles or lowering temperatures, while preserving material performance. Our liquid masterbatch eliminates nanopowder risks. Industrial pilot operational in Pessac, France.

Application areas

- Electronics potting & encapsulation
- Electrical insulation & impregnation systems
- Structural adhesives & bonding
- High-throughput thermal curing operations
- Epoxy composite manufacturing & tooling

Products

Graph'Up Optim: A liquid process catalyst. Efficient at low dosage, it reduces cure time (up to 60%) or temp (-20°C) without process changes. Compatible with Injection, Infusion/RTM & Winding.

Graph'Up Platform: Force (mechanical) & Power (thermal-electrical) in development.

Innovation

Productivity Engine: Graph'Up Optim solves the curing bottleneck. It enables potential 3x throughput on existing lines (Zero CAPEX) for a positive TCO. Optimizes reaction kinetics to combine speed and energy savings.

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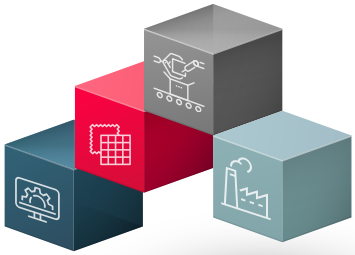

Fotia D.M.T
DÉVELOPPEMENT MACHINES TECHNIQUES

Since 1926, Fotia DMT is specialised in the design and manufacture of custom made machines for soft materials ,textiles or composites products.

Application areas

Technical fabrics, foams and non-wovens, flooring, natural insulators, plastics, specialty papers, composite materials.

Products

- Coating / Adhesive
- Unwinding / Rewinding
- Lamination
- Automated packaging and assembly
- Accumulation
- Heat treatment
- Cutting
- Calendering

Innovations

- Non-stop winder or unwinder.
- Production process for cork / organic resin composites.

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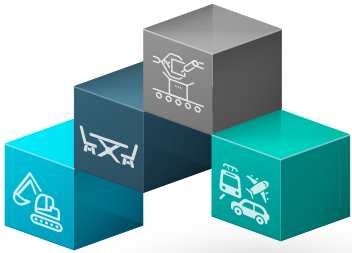

FRANCEM
EXTRUDED PROFILES

Since 1949, Francem has been a manufacturer and extruder of profiles in cellular or solid rubber (EPDM, sulfur-free EPDM, NBR, CR, SBR, NBR-PVC, silicone, etc.) and in TPE, SEBS, TPV, ABS, PVC and composite materials (tri-material).
Certification: IATF 16949, ISO 9001, ISO 14001

Application areas

Automotive, household appliance, construction, industrial sectors.

Products

Francem offers a wide range of extruded profiles: extruded and die-cut foams for battery shock absorbers (electric vehicles), elastic bushings, seals, flexible hoses (fluid transfer), O-rings, adhesive profiles, extruded profiles, sealing gaskets, die-cut and stamped parts, foam sleeves, spacers, bonded bushings, fire-resistant (M2) anti-pinch seals… for sealing, acoustic, aesthetic, and vibration-damping applications.

Innovation

A low-density EPDM foam specifically designed to meet the growing needs of battery and energy storage systems, offering elastic and durable solutions (extrusion dimensions up to 210 mm wide with a suitable adhesive application).

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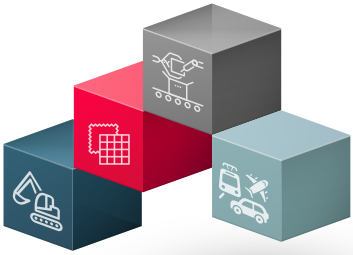

marduel
TECHNICAL YARNS

For over 60 years, Marduel has specialized in processing technical yarns to strengthen industrial products such as composite, hoses or many other high value-added applications. By twisting, cabling, winding, coating, Marduel develops and manufactures new yarns that fulfill its customer's needs.

Application areas

Composite, aeronautics, automotive, PVC & rubber reinforcement, paper & leather industries, mechanical industry, packaging, textile, construction…

Products

Technical Yarns manufacturer by twisting and winding

- From 50 to 10 000 tex
- High tenacity yarns, Aramids, Carbon, Glass, basalt…
- Hybrid yarns

- Tailor-made products
- Extensive quality control check
- Traceability

Innovations

Marduel offers advice and technical support dedicated to innovation. This expertise allows the company to be approached for research by famous names of the aeronautics and automotive industries. A dedicated twisting carbon, glass and basalt workshop enables to meet needs of prototyping and large scale production.

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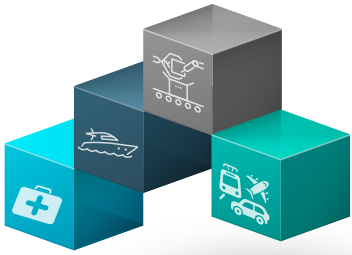


MONTDOR

MONTDOR IS SPECIALIZED IN THE TRANSFORMATION OF FLEXIBLE MATERIALS IN ROLL BY GIVING THEM TECHNICAL OR AESTHETIC PROPERTIES. MONTDOR IS A WELL-KNOWN PLAYER IN AUTOMOTIVE, COMPOSITE, LUGGAGE, SPORTSWEAR AND WALL-COVERING INDUSTRY. WE OFFER A WIDE RANGE OF TRANSFORMATIONS INCLUDING EMBOSSING, MOLDING, LAMINATION, ANTI-ABRASION/ANTI-SLIP TREATMENT, TRANSFER PRINTING, PLEATING, CRUSHING...

Application areas

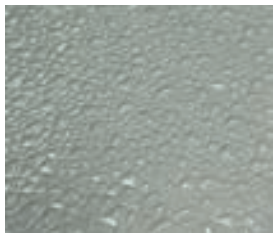
Automobile, composite, luggage, sportswear, wall-covering.

Products

- Embossed Polyamide film: can be used in the composites industry for vacuum forming applications. Thanks to the embossing, the film has good release and drainage properties.
- Embossed PET film: can be used in the composites industry as a surface transfer film to achieve aesthetic and technical performance.

Different thicknesses, widths and embossing patterns are available on request.

- Adhesive or film lamination provide technical properties such as breathability, waterproofing, air and helium barrier and even UV protection for sensitive fabrics such as Dinema.



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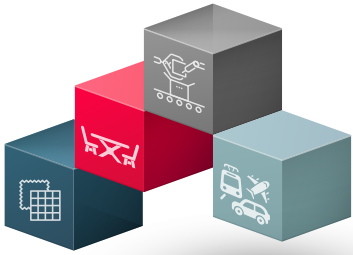


nsc fibre to yarn

n. schlumberger cognetex SAMT A.MIDREA NOVARA seydel

Manufacturer of textile machinery and complete fibre-to-yarn lines, N. Schlumberger is a global player in combing/recombing, spinning preparation, tow to top, semi-worsted, stretch-breaking and converting in the field of long staple fibres. Our agents are Located in more than 60 countries across the five continents.

Application areas

Apparel, hosiery, weaving yarn, knitting yarn, carpets/rugs, floor coverings, upholstery, technical yarns, automotive

Products

- Carding
- Converting
- Defelting
- Drafting
- Combing
- Finisher

Innovation

Fyber MES (Manufacturing Execution System) is an information system for textile production. Fyber MES is a real Industry 4.0 tool, increasing operational efficiency while being a time saver.

Antoine ZIMMERMANN + 33 (0)6 33 53 36 37
antoine.zimmermann@nsc.fr
www.nsc-schlumberger.com

***OPS** is a French technical injection molding company founded in **1947**. We produce small and medium series of high-performance polymer and elastomer parts, and also manufacture polymer **3D** printed parts **(SLS, PLA, FDM)**, supporting industrial clients from design optimization to eco-responsible material selection.*

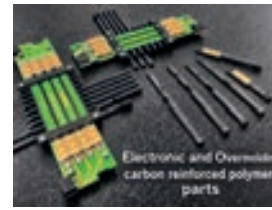
Application areas

Medical devices, industrial machinery, electrical & electronics, mobility & lightweight structures, sports & leisure, technical equipment & OEM components.

Products

Technical injected parts in high-performance polymers and elastomers, overmolded and insert-molded components, hybrid polymer-composite parts, and functional prototypes.

Small and medium series production with a strong focus on precision, performance and durability.



Innovations

- **Lightweight polymer solutions** designed to replace metal or cast parts.
- **Hybrid polymer–composite structural solutions** reducing weight, enhancing mechanical performance and supporting sustainable industrial transitions.

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PLASMALEX

Plasmalex is an expert in vacuum and atmospheric plasma surface treatment for films and textiles. The company offers a complete turnkey solution for surface activation, grafting, and nano-coating. In site plasma reactor (2000 mm wide) is the single AP-PECVD roll-to-roll system available worldwide in cleanroom.

Application areas

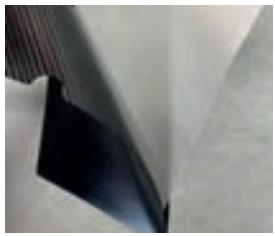
Aerospace, automotive, composite materials, medical.

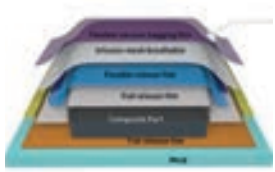
Products

Plasmalex offers ultrathin and ultraclean release coating: Ximo. Ximo is a nanoscale adjustable release solution available on multiple polymer films.
Ready for industrial scale applications where consistency and precision are essential.

Innovation

Plasmalex develops a heat resistant PFAS-free release treatment for films as for textiles used in flexible vacuum bagging for composite infusion. Based on a plasma nano-coating technology, the solution provides controlled release properties at extra low contamination levels with industrial scalability up to 2000 mm web width.
It enables reduced total cost of ownership (TCO) as sustainability while using a fully recyclable release film as PFA's free substance.





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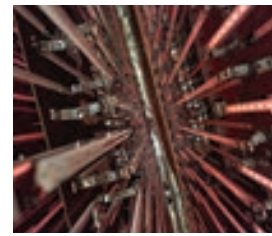
SOPARA

Sopara is specialized in the design and manufacture of Infrared industrial equipment (infrared heaters, ovens and tunnels) and can help you to increase your productivity, save energy and become carbon neutral. With its own in-house R&D department and Testing Laboratory, Sopara develops and manufactures custom-made solutions for the industry of tomorrow.

Application areas

Composite materials, textile, automotive, aerospace, painting.



Products

- Short-wave infrared heaters (for heating of materials or industrial premises),
- high performance medium-wave infrared heaters,
- curing and drying infrared ovens,
- thermoforming infrared ovens,
- non-woven textile heating infrared ovens,
- energy saving and high performance products,
- power control cabinet.

Innovations

- Thermoplastic melting ovens to prepreg carbon fibers up to 450 ° C (± 10° C).
- New infrared heaters for heating with perfect homogeneity thermoplastic composite plates for the aerospace industry.

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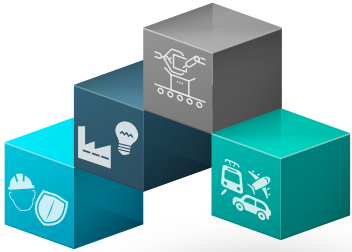
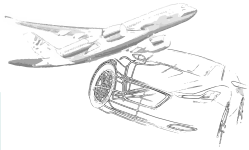


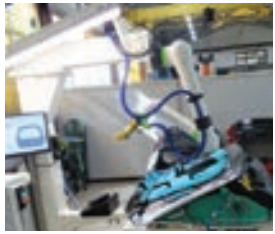


TF ÉTUDES

***TF ÉTUDES** is based in Oyonnax Plastic Vallée since 1990. Our team is specialized in product design, assembly tools, specific tools and checking fixtures. After 30 years, we are sub-supplier of first step defense, aero industry and mobility. We are implemented in different kind of market with specialization in products design. Design, manufacturing, control, tuning and assembly are part of our knowledge and ready to follow you during your development. Our machines are used all over Europe on our customer plants.*

Application areas

Defense, aeronautics, nuclear, energy, automotive, medical.



Products

Specialized in the design and production of:

- inspection jigs,
- checking fixtures,
- leakage inspection tools,
- production tools,
- assembly tools: hot plate welding, vibrations welding, infra-red welding,
- special machines.

Innovations

- Development and manufacture of custom infrared sources.
- Integration of robot, integration of automatic screwing and vision control, sealing control tools.

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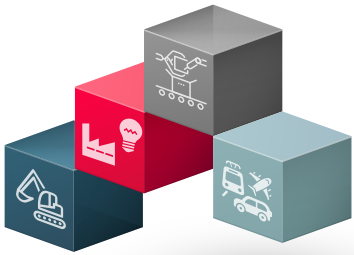
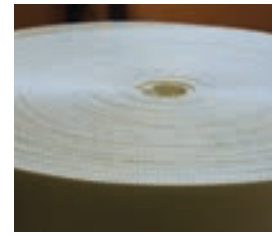


#TISSTECH
Technical Fabrics

Located in Rhône Alpes Auvergne and with nearly 50 years of experience Tisstech is involved in the design, development and manufacture of textiles for technical purposes. We are creator of industrial textile products. Our strenght? Our reactivity. Expertise, know-how and innovation made in France guarantee our quality.

Application areas

An international presence and a great industrial reactivity in order to respond with precision to any specific request. We develop custom-made solutions for different industrial sectors : aeronoautics, composite industry, electrical, rail, automotive, iron&steel, nuclear, maritim...



Products

- Customized and adapted support thanks to an efficient integrated production tool: R&D, warping, weaving, impregnating/coating composites, cutting, clothing industry/processing.
- Our product catalog is representative of all the developments carried out in collaboration with our customers : tapes for electical insulation, prepegs fabrics, reinforcement grid…

Innovations

We are able to develop any type of weaving. Come to our stand in order to discover our innovations!

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