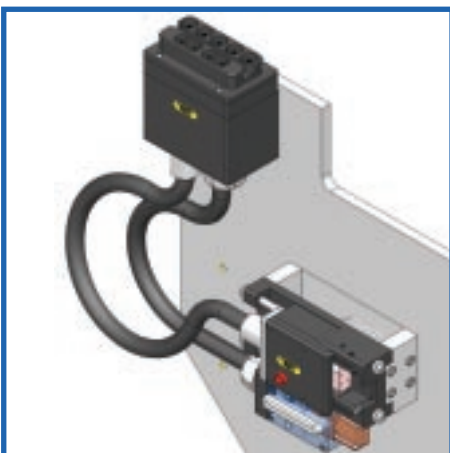
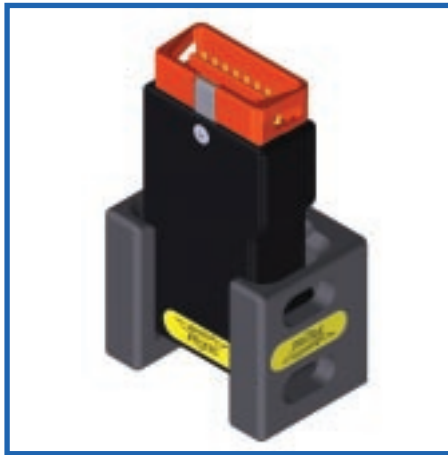


More than 650 product types available



## History and Development

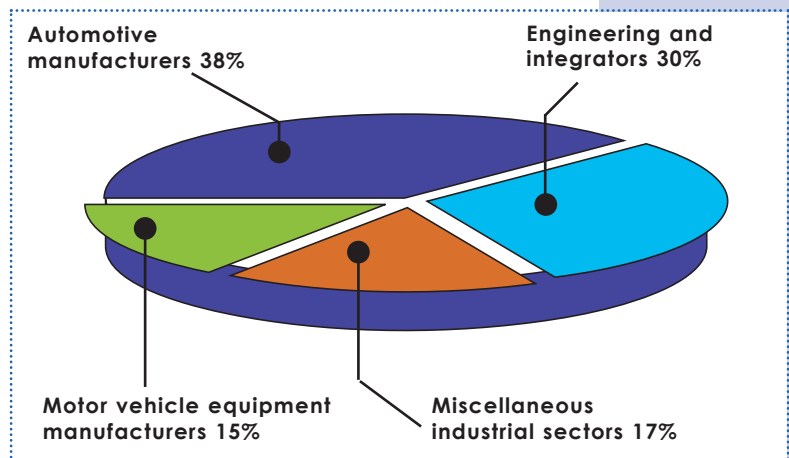
- 1979** : Founding of a precision engineering company by François SALAMONE.
- 1985** : Setting up of a subsidiary in Northern France.
- 1992** : Spinning off of the subsidiary and founding of the company Créatique Technologie, located in Billy Berclau between Lens and Lille, France.
- 1994** : The company Créatique Technologie specializes in the design and manufacture of industrial connectors for heavy-duty service on automotive assembly lines.
- 1997** : Introduction of the OEBD2 generic connector diagnostic connector. This product's use is extended across the board in all Peugeot-Citroen (PSA) plants.
- 1999** : Awarding of the AFAQ ISO 9002 v. 1994 certification.
- 2000** : Installation of the first FJV MAZAK high-speed machining centre.
- 2001** : Introduction of CAPM with GESTPROD barcodes.
- 2001** : Purchase of an Integrex turning and drilling centre.
- 2002** : Expansion of the site and construction of an air-conditioned metrology room for the installation of a three-dimensional measuring machine.
- 2003** : Setting-up of the Quality Management System and the awarding of AFAQ ISO 9001 v.2000 certification.
- 2003** : Ambitious investment policy continues with an increase in CNC production capacity. Purchase of a new UGV 5-axis palletised machining centre.
- 2004** : Acquisition of the Solid Works and PDM Works licences and of COSMOS Works finite element analysis software.
- 2004** : Setting up of the export subsidiary CREATIQUE-TECHNOLOGIE in Saarbrücken, Germany.

## Business and financial information

### Growth in the turnover and of staff numbers (as of 31st May)

Year	Annual turnover (million Euro)	Staff
2004	2,35	35
2003	2,02	29
2002	1,98	27
2001	1,73	25

### Breakdown of the market by sector :



### ► Our main strengths

Know-how in the design and manufacture of industrial test connectors :

#### GENERAL:

- Créatique Technologie carries out every process from design to manufacture.
- Manufacture of prototypes and of series production from one-offs to batches of 2000 units per year.
- Range of industrial test-connectors comprising more than 650 different products.
- Créatique Technologie specializes in process optimization on automotive assembly line processes.
- Highly qualified staff in the design, prototyping and machining of components.
- Production capability consists of 3, 4, and 5 axis CNC machining-centres.
- Production plan and traceability through barcodes for the manufactured parts.
- Networked computer system centralized for the 4 sites: Créatique Technologie, EFS in Millery (69), AIP in Chassieu (69)) and the subsidiary KREATIK-TECHNOLOGIE in Saarbrücken, Germany.
- Respect of customer's project confidentiality.

#### RESEARCH AND DEVELOPMENT :

- Ergonomic shape of connectors (weight, overall dimensions, ease of use ...)
- Design of connectors in CAD Conception 3D Solidedge interfaced with a CAM (S4X) for milling- turning
- Investment in the Cosmosworks finite element calculation software.
- Supply of data sheets + customer service parts and interactive sheets with shared access in Solidedge, Solidworks.
- Ongoing technical development with organizations (CETIM or MM2A).

#### QUALITY :

- Control room equipped with a MITUTOYO three-dimensional machine.
- A quality policy that meets AFAQ ISO 9001 v. 2000.

### ► Product Range

- Diagnostic plugs for central computer (ABS, ESP...) –OEBD2 diagnostic system
- Connector types: trigger, double trigger, drawer, with elbow return or strip.
- Connectors for ABS
- Connectors for engine (pump, injector, probe, calculator etc)
- Connectors for OEMs and vehicle manufacturers
- Connectors for automated production line.
- Special connectors – current probe – ground or live clamp – extension lead or connection rack.

### ► Our experience

With more than 15 years experience in the design and manufacturing of industrial test-connectics in the automotive electrical and electronics field, Créatique Technologie is a major and highly regarded player in the European test-connector market.

Having developed more than 650 different connectors, Créatique Technologie can meet your industrial ergonomic requirements by ensuring a perfect electrical link between the terminals and your products.

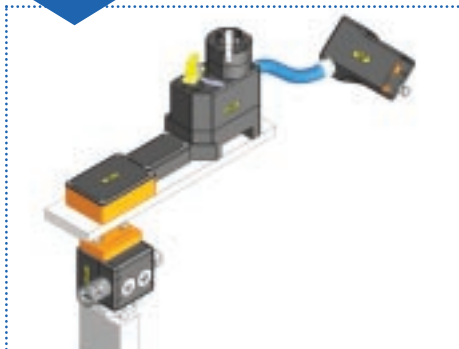
Our personalised test-connectors bring you ease-of-use with fault-free and rapid connection in intensive operating cycles.

Our products are designed to burn-in and improve electrical connections by avoiding connection faults and deterioration to vehicle terminals.

We can supply your complete solution from the assessment of your requirements to the on-site installation, including connector maintenance and the training of your staff.



Connection system for a sequential gearbox



Connection system for a hydraulic servo pump



Testing of an automatic gearbox

# OUR PRODUCTS - SOME EXAMPLES

4

## Connectors for ABS

Manufacture of an ABS plug for one-handed use, adapted ergonomics to suit the accessibility within the vehicle.

- Use of specific plastic material that will be machined to produce the final shape.
- Precise and reliable connection.
- Frequency of use: several hundred connections per day.



Connector for Bosch 8.0 ABS



With double-hooking trigger



With locking-drawer



With elbow-return

With straight -return



## Connectors for engines

Créatique Technologie have developed test-connectors for high-frequency re-use for every electrical component of the engine (pump, injector, sensor, calculator etc).

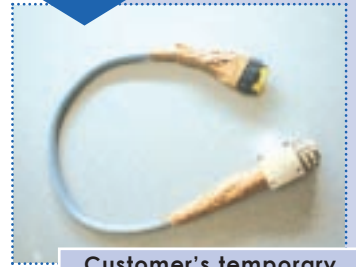
Anti-traction cable to provide a secure connection with a specially designed lock to avoid accidental disconnection.

Mechanical fool-proofing and/or sealing.

Possible options: voltage regulation, switch, connection led.

A guarantee of 100,000 cycles on mechanical parts.

Reduced connector maintenance.



Customer's temporary cable



Design with outer sealing for injector



Cigar shape



Straight 3-way



Short and straight 2-way



Short 6-way with fool-proofing



45° elbow



3-way elbow with spring-strip



90° 4-way

# OUR PRODUCTS - SOME EXAMPLES

5

## Connectors for OEMs and vehicle manufacturers

For a fast, reliable repetitive connection, our industrial connectors are designed to connect all the vehicle components: door, rear-view mirror, gearbox, sunroof, seat belt pretensioner, electric motor, hydraulic pump, sensor etc.

Here are some solutions:



64-way with connection switch and back plug on the connector



Connector with integrated control



6-way connector with handle shape



6-way connector with control case and separate earth



9+2 way with double trigger

OEBD2 diagnostic plug



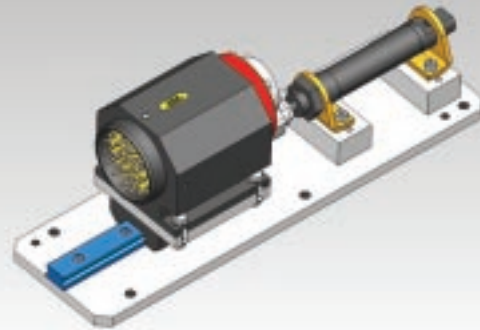
## Connector for automated assembly lines

Manufacture of industrial connection plugs from 1 to 45 simultaneous contacts providing for high current flow up to 200 A.

Easy and intensive use on vehicle assembly lines or on OEM automated production lines. Rapid manual or automatic positioning provided by guide rail.

Special automatic connectors for repeated use but not requiring precise guiding such as those for Harting connectors.

These connectors reduce connection faults by a factor of 10.



Linear guide connection system



Complete connection line

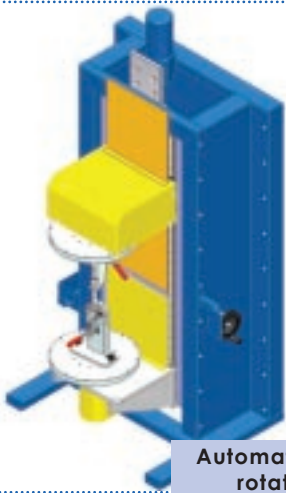
# OUR DESIGN CAPABILITY

6

Crématique Technologie has chosen to keep the design and machining of connectors in-house in order to look after all the stages of manufacture and to provide a quicker product turnaround.

We have opted for an all-digital system and in order to carry out complex design we have the following CAD software at our disposal :

3D Solidedge and Solidworks permitting compatibility with our customer's computer systems.

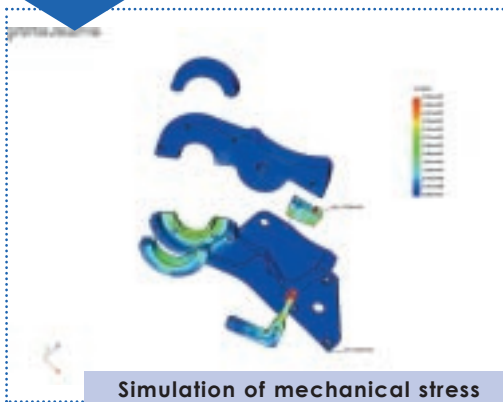


Automatic and rotating manual-welder's workplace



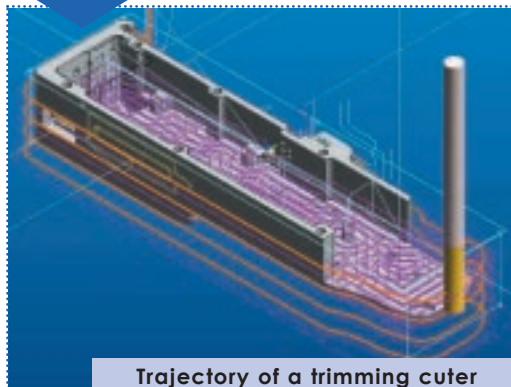
Study of a screwing head

In order to determine the precise strength of our test connectors Crématique Technologie has invested in COSMOSWORKS finite element analysis software.



Simulation of mechanical stress on customer's component

For the programming of all the parts Crématique Technologie uses a CAM software permitting 3D modelled parts.

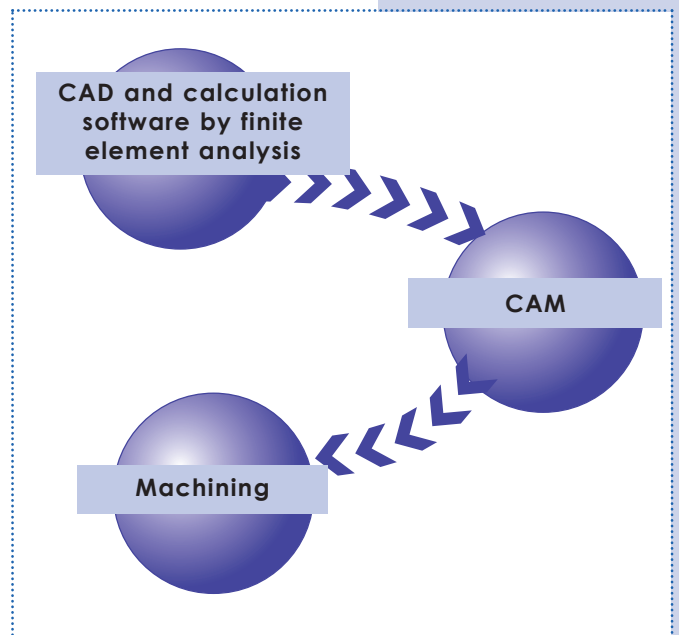


Trajectory of a trimming cutter on a foundry part

CAD and calculation software by finite element analysis

CAM

Machining



## ▶ The machine shop

An ambitious and sustained investment policy has allowed Créatique Technologie to purchase state-of-the-art machines.

The machine shop has the task of producing the connectors to the highest level of quality and with a fast turnaround.

To fully meet the demands on its customers Créatique Technologie has a production facility that includes the following machines and equipment:

- 5-axis Hermle high speed palletised machining centre
- FJV Mazak high speed machining centre
- Mazak Integrex 200 Y – 4 axis machining centre
- Mazak VTC 20 B – 4 axis machining centre
- Mazak SQT 200 machining centre
- grinding machine
- electric platemaker



MC Mazak Integrex 200 SY



MC 5-axis Hermle C800 with palletization

The management of the entire workshop is fully computer controlled by GESTPROD CAPM software and in addition, the traceability of machined parts through a barcode system.

## ▶ Qualified staff

Créatique Technologie employs highly qualified staff, who have a wealth of experience in prototyping, machining and assembly of connectors

## ▶ The measuring equipment

Créatique Technologie has a climate-controlled metrology room fully equipped to check complex machined-parts with close tolerances.

This measuring equipment includes:

- Mitutoyo – BN 706 (700x700x600) three-dimensional measuring machine
- profile projector
- Trimos measuring column
- surface indicator

All this equipment is regularly calibrated and checked by an accredited institution.



# OUR QUALITY POLICY

To guarantee and ensure the quality of our test connectors, but also to uphold the confidence and the satisfaction of our customers, Créatique Technologie is committed to a quality strategy in order to provide exemplary service from design stage to installation on-site.

Aware of the importance and of the interest of such a step, Créatique Technologie has implemented a rigorous quality system, in accordance with the requirements of the AFAQ ISO 9001 v. 2000 norm, whose certification was obtained in 2003.



# OUR CURRENT CUSTOMERS

- Actia
- Alcatel
- Arvin Meritor
- Behr
- Bosch
- Euraltech
- Faurecia
- Groupe Antolin
- Groupe Peugeot SA
- Groupe Renault
- Groupe Toyota
- Johnson Control
- Koyo
- LEM
- Pininfarina
- Rapidcharge FrigoFrance
- Siemens Automotiv Systems
- TMS
- Fiat
- Visteon Ardennes Industrie
- Valéo

Créatique Technologie has a breadth of experience in Franco-German partnerships resulting from its collaboration with the Hoerbiger company concerning infrared connection systems and the Swiss company LEM regarding electrical probes.

Come and join our 140 customers with most of whom we've been working for many years.



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