



BRINGING LIGHT INTO YOUR
CUSTOM, COMPLEX OR EXTREME
ENVIRONMENT IS OUR CHALLENGE!

YOUR•CHALLENGES ARE OURS!

You need a custom-made product to fit in your special environment, for which there is currently no off-the-shelf solution available. We help you overcome your challenges!



Your CUSTOMIZED environment

Your environment is unique and you cannot use an off-the-shelf solution.

SEDI-ATI will help you with competitive, unique and customized solutions.



Your COMPLEX environment

Your environment is extremely complex and there is no good solution on the market.

SEDI-ATI has the expertise to provide the adequate solutions.



Your HARSH or EXTREME environment

You deal with hostile variables and you miss the expertise to solve your issues.

SEDI-ATI provides turn-key solutions from our field-proven building blocks.

OUR•MISSION AND CULTURE

Our mission is to design and build fiber based turn-key solutions to enable you to bring photons in any environment, whatever your constraints are!



Legacy

- a family business starting in 1951
- a second life with the acquisition by the JFV Holding Strategy in 2016



Enhancement

- highly skilled team
- multidisciplinary team
- regularly trained on new procedures



Philanthropy

- agile and focused company
- creating sustainable, long-term value
- addressing societal challenges

COMPANY•FACTS



70+

years of expertise



200+

faithful customers



+5 %

turnover per year



40 %

export sales



2000 sqm
facilities



4
clean rooms

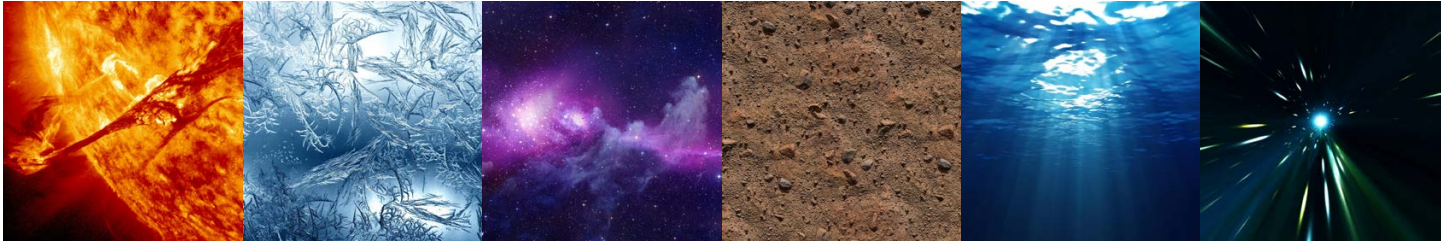


50
employees



6
R&D engineers

OUR EXPERTISE IN EXTREME ENVIRONMENTS



Over the years, we have acquired a strong and well recognized expertise in the preparation and implementation of optical fibers to withstand extreme environments.

EXTREME TEMPERATURES

cryogenic temp. high temperatures
down to up to
-273 °C **+1 000 °C**

EXTREME PRESSURES

ultra-high-vacuum hyperbare
down to up to
10⁻¹¹ **5 000 bars**

HIGH-VOLTAGE ENVIRONMENTS

dielectric breakdown
up to
1 kV per cm

RADIATIVE ENVIRONMENTS

radiations solarization
up to down to
100 MGray **200 nm**

HOSTILE ATMOSPHERE

corrosive/abrasive environments
chemicals, gas, oil, sand, mud, rocks, water, salt, moisture, steam, dust, electromagnetic fields...

EXTREME CONDITIONS

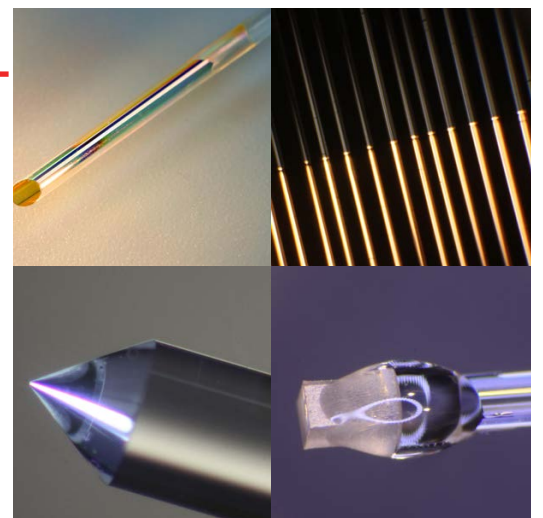
mechanical stress
shocks, vibrations, accelerations,
stretching, bending...

OUR CORE TECHNOLOGIES

We have developed a specific knowledge around technologies involved in the production of our optical fiber components:

- **Polishing of optical fibers:** straight, spherical, conical, angled, chisel, lateral
- **Shaping of the end face** of optical fibers: polishing, fusion, glued parts
- **Thin-film deposition:** metallization, anti-reflective coatings, dichroic filters
- **Sealing:** epoxy, brasing, glass soldering, ceramic bonding
- Spooling: untwisted fibers, low tension coils
- Specific **opto-mechanical designs** for optical fibers

These technics allow to achieve particular optical or mechanical functions and to improve the efficiency of the components in extreme environments.



YOUR APPLICATIONS

We cover a broad spectrum of demanding applications. For instance, in space, we are involved in the laser triggering of the different stages and satellites on board the new launchers. In the nuclear field, we contribute to the analysis and treatment of nuclear waste. In the industry, we participate to the laser cleaning and cutting of materials. In the medical field, we are a key partner to perform endovenous laser treatment. Whatever the constraints and environment are, we are at your side!



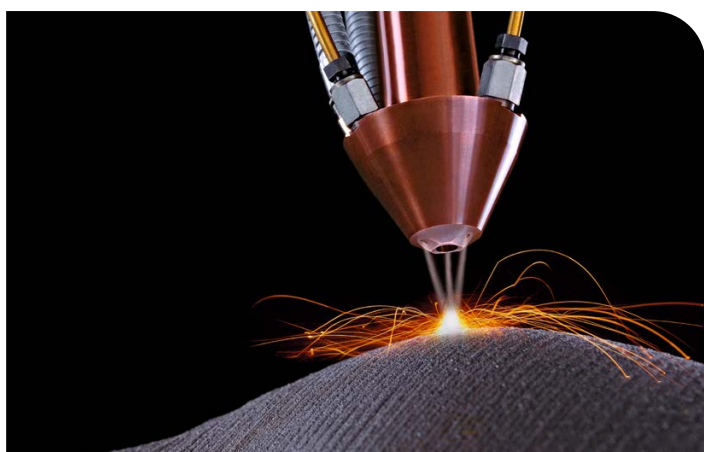
MILITARY AND AEROSPACE

army • navy • aeronautics • space



ENERGY

nuclear • oil & gas • electricity • green



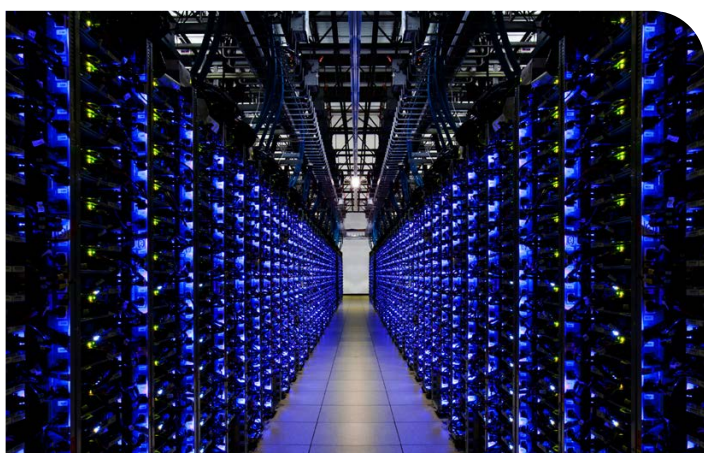
INDUSTRY

power lasers • optical sensors • robotics • railway



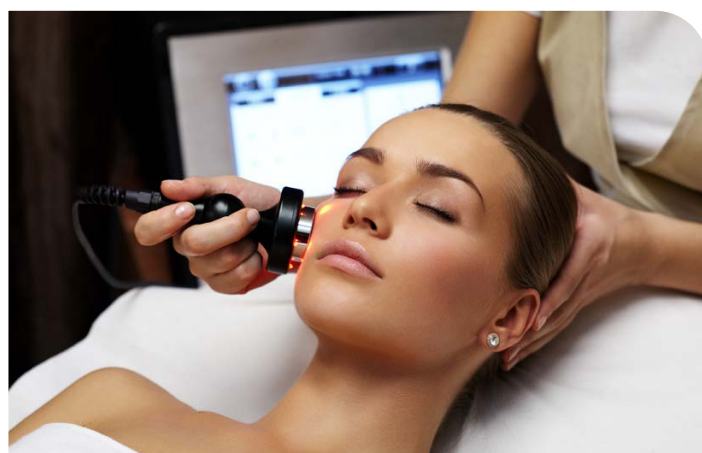
RESEARCH

astronomy • dosimetric monitoring • particle physics



DATAKOM

quantum communication • quantum metrology



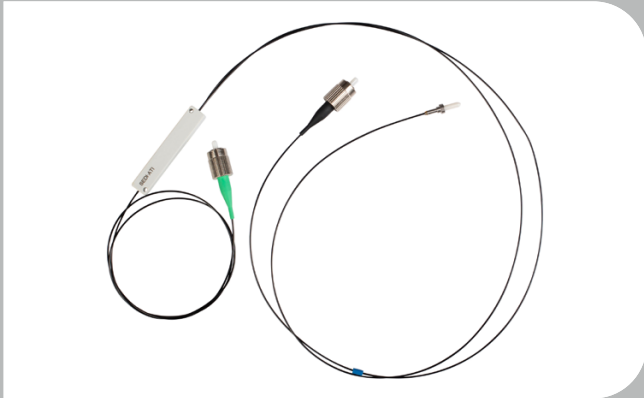
MEDICAL

laser therapy • laser surgery • diagnosis & analysis

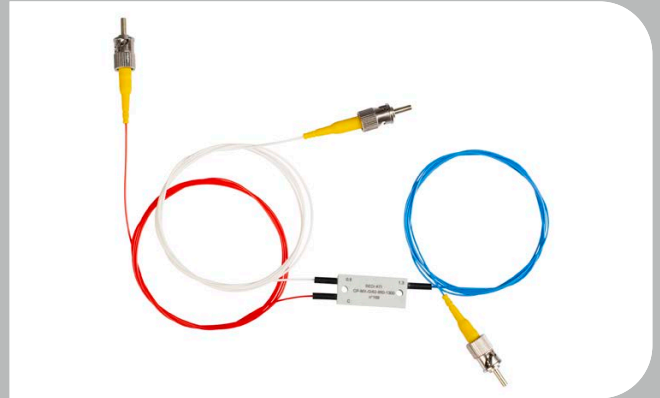
We are always eager to hear about new projects. Feel free to consult us. Our specialists will be happy to guide you towards an adequate solution. Call us on +33 1 69 36 64 32 or write at contact@sedi-ati.com

OUR PRODUCTS AND SOLUTIONS

All our products are **designed upon customer's specifications**. The issues that our customers face are exciting challenges that we proudly take on, on a daily basis. **SEDI-ATI fiber-based components are widely used in extreme environments**. Our main product lines include:



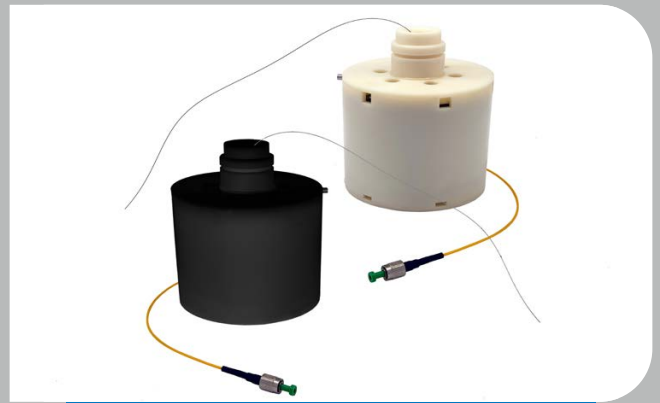
Multimode fiber-optic couplers



Multimode wavelength multiplexers



Hermetic fiber-optic feedthroughs



Disposable fiber-optic spools for tethered vehicles



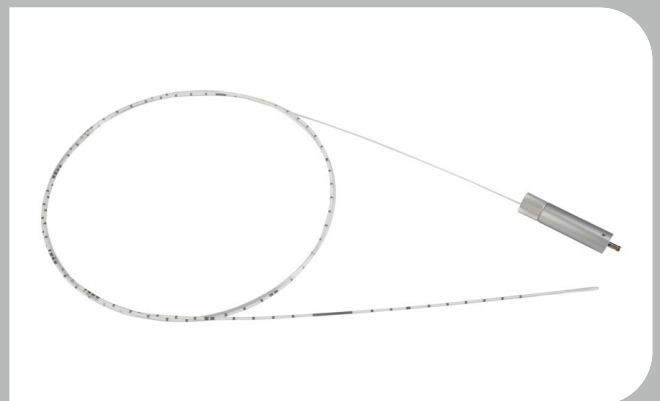
Fiber-optic bundles, arrays and octopuses



Special fiber-optic patchcords and cables



Optical connectors and adapters



Fiber-optic medical devices

QUALITY • DRIVEN PROJECTS

afnor
CERTIFICATION



FOLLOW • US



SEDI • ATI
fibres optiques

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