

Technifor

FSO

GRAVOTECH GROUP

# FIBRE LASER

Complete range of integrable laser <u>marking systems</u>

# Laser Solution F-Series

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www.technifor.com

# **FIBRE LASER**

#### HIGH SPEED, CONTRAST AND PERMANENT MARKING

Compact and robust, Technifor lasers are fully PPC (programto-program communication) compatible to easily integrate marking requirements in your production process:

- Designed for marking applications
- Very high processing speed
- Durable marks
- Low operating cost
- (no consumables, low power consumption)
- Non-contact process
- Long-life fibre technology





Improving in laser technology for over 20 years, Technifor has numerous references at large manufacturers, 2nd tier suppliers as well as high precision mechanical and medical markets.

## Choose Technifor fibre technology for:

- **Reliability:** robust mechanical and optical elements makes it very stable and easy to use with lower maintenance requirements.
- High-definition at fast speeds: the high quality beam can be focused in a very small spot. Combined with high energy density, it produces accurate and repeatable marks in a short time.
- "Ready to integrate" solution: industrial connectivity, plug and play (no PC, communication modules or adapters required), worldwide compatibility and preprogrammed control routines for most PLCs considerably reduce installation, programing time and costs.

#### MAXIMIZE YOUR MARKING CAPABILITIES



#### Identification of any part

Our Fibre Laser Solutions are available in a range of powers to obtain various laser effects on most materials (metals, plastics, ceramics, etc.).

Laser	Application
F10	Surface coloring
F20	Flexible solution
F30	High speed marking
F50	Deep marking / engraving

## Modular and scalable range

Technifor can support your **developing requirements** by easily updating the power of your marking machine without having to change the complete system.

**Highly flexible**, Fibre Laser Solution enables any type of part processing (fragile, soft, hard sufaces, coating removal):

- F10: economical solution, very efficient on plastics, anodized aluminum and for annealing (surface marking) stainless steel
- F20: versatile, high performance solution used on aluminum, steel, titanium and cast iron for fast high-contrast marks
- F30 F50: powerful solution for the most demanding applications in terms of speed and depth of marking. Ideal for engraving



# **FIBRE LASER**

#### DESIGNED FOR INDUSTRIAL ENVIRONMENTS



**Compact:** about the size of a sheet of paper, it can be integrated in any orientations on-line or on a robot arm.

Efficient even in intensive industrial use: withstands working temperatures up to 40°C.

#### Secure

**Operator safety:** integrated safety shutter maximizes user security.

Machine safety: electronic controls and alarms protect the equipment for long life use.

Compliant with most stringent global safety requirements





#### Easy removal of the fiber torch

Safety, strength and ease of integration were designed at every level of the equipment conception.

## Industrial design

- Heavy-duty cast construction absorbs vibration for perfect marking quality.
- IP54 marking head: protected against dust (<0.1 mm) and water splashing
- Fan-less head: eliminates dust and noise concerns.
- Built-in double focal lens protection: protected from dust and scratches thanks to a removable and cleanable protective glass, protected from knocks by a heavy-gage aluminum ring

#### **COST-EFFECTIVE INTEGRATION**



### High reliability

The next-generation control unit offers **ultra-fast calculation and easy communication** with your network infrastructure.

- Independent mode (no PC needed)
- Intuitive human-machine interface (HMI) for easy and userfriendly programming
- Dust filter protected control unit
- High stability against electromagnetic influence
- 19" rack mounted unit for easy integration in industrial panels

## Full and flexible connectivity

Fibre Laser Solution sends and receives all data (ODBC, Excel, ASCII...), interacts with your PLCs and dynamically displays current operations:

- Dedicated Inputs/Outputs to manage the machine and automate operations
- Multiple ports to communicate with external devices, databases and send instructions...: RS232, USB, DB15-F, Ethernet TCP/IP
- **Profinet**: dedicated port and command instructions allow direct connection to the industrial network without any additional devices. Huge time saving and reduced installation costs



#### "Ready-to-use" solution:

Interface for immediate diagnostic, easy update via USB, Ethernet for remote control operation



Intuitive and easy-to-use, the user takes control of the included

Lasertrace Windows® software in a

The many modes available, from

the simplest to the most advanced,

provide an answer to all identification and traceability requirement, without

## CREATE YOUR MARK, GET SET, TRACE!

DataMatrix<sup>™</sup>,

+ Multilingual

# Texts, serial numbers, bar codes. variables, shift codes. QR codes dates, UID, logos... + Direct access to marking PNR 9865-2 SER 985-A TRCHINAN (6 Library of marking presets, Link to databases (ODBC, Excel, ASCII...)

## any specific training. - Flat, angular and radial marking - Font library optimized for maximum productivity

**Endless possibilities** 

- Preview of the marking
- ... and many more

few clicks.



#### LOGO EDITOR MAX

Optional add-on to quickly design or modify logos, images, symbols Supports all widely-used file formats (DXF, ei, bmp, gif, jpeg, eps, PDF.)

#### Manage your marking process from workshop to an automated line

The Production mode allows you to automate numerous tasks easily: double entry control, log files, operator/supervisor levels, data acquisition from your existing systems (measurement devices...), from code readers...

#### In-house software

Specifically designed for identification and traceability, Lasertrace has ready-made answers to existing standards and regulations.

Customizable, it leaves the possibility to tailor features and interface for a fully integrated traceability solution!

#### YOUR GLOBAL PROJECT PARTNER



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From customized tools to complete integrated solution, our multipurpose teams are able to answer to any specific need.

Feasibility study, application advice and free sample services, **Technifor directly supports your projects** and can manage major integration programs thanks to a unique subsidiary network.

- 1. Stand-alone workstation
- 2. Integrable version
- 3. Automated and semi-automated versions (turntable, automatic doors, vacuum transfer...)

#### Full range of accessories for an economical personalized solution

- Integration support: motorized Z axis, funnel shaped laser protection nozzle...
- All part shapes adaptation: lens range (100-160-254-300 mm), part rotation device, plate feeding systems...
- Operator ease-of-use: 2<sup>nd</sup> focusing diode, Class1 station (door closed)
- Code reading: 1D and 2D camera, handheld readers...
- Protection and safety: dedicated fume extraction with I/O control, start button box...



Local support in local language Experienced direct teams on the 5 continents give on-site support, training and assistance. Software interface and documentation are also available in more than 20 languages.

#### Applications

#### www.technifor.com



#### Automotive Motorcycles Aerospace Iron and steel Medical

Business gifts Mechanics Electronics Plumbing Electrics Armament and Military Energy Tooling



# Extremely versatile with applications in every industry:

- Surface marking: stainless steel, titanium, plastics, ceramics...
- Engraving: castings, raw materials, steel, aluminum...
- DataMatrix<sup>™</sup>, QR codes, barcodes traceability...
- Unit to mass identification: serial numbers, references, texts, logos, variables, industrial files (DXF, BMP...)...

See our complete range of laser solutions on: www.technifor.com

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