



# Fiber laser marking

## **SPEED / CONTRAST / POWER**



TF 420 TF 430

Laser

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#### Next-generation fiber laser marking solution

#### PERFORMANCE

#### Advantages of the fiber laser

**Compact** true fiber system: fewer mechanical and optical elements, reduced maintenance

Long-life laser source

Efficient optical elements: **low** electrical **consumption** (300 W)

# Technifor Laser designed for marking applications

**Exceptional pulse properties:** high energy density for the entire pulse duration

High intensity beam: more efficient, it provides a high quality mark in a short cycle time.

#### Identification on any part

3 power ranges available to maximize marking capabilities:

•**TF410**: economical solution, very efficient on plastics, anodized aluminium and for annealing (surface marking) stainless steel.

•**TF420**: versatile, high performance solution used on aluminium, steel, tita-nium, cast iron. Fast high-constrast marks.

•**TEUBO**: powerful solution for the most demanding applications in terms of speed and depth of marking. Used for engraving.

#### INNOVATION

#### "Ready to integrate" solution

**Complete packages** for integration or work stations.

Integrated **laser aiming diode: simplifies** part positioning.

**Universal:** industrial connectivity for worldwide compatibility and ease of integration

#### Easy to use

**Compact design** eases into any manufacturing configuration

Flexible connectivity: PC, PLC, barcode readers or stand-alone

# Economical and environmentally respectful

#### Optimized function: low operating costs

**Silent:** < 60 dB, no additional sound-proofing required

**Direct and permanent marking:** no paint, solvents or stickers

"Excels in speed and contrast"

#### INDUSTRIAL AND RELIABLE

#### **Designed to last**

Compact head in **robust**, yet **lightweight** aluminium: for ease of integration even in intensive, industrial use

Air-cooled, no high-maintenance water chiller required

Secure: electronic controls and alarms to **protect** laser

**Safe:** armored optical fiber, integrated safety shutter

#### Maximum up-time

Stable power: **consistent high quality** results

**Controls and software dedicated to marking and traceability:** management, storage and guarantee of the data to be marked

**30 years of** Technifor's extensive integration knowledge



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Mini-workstation Class 1

Automatic nameplate feeder

Second focus diode

Fume extractor

Focal range

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### Applications

Speed, precision and contrast are the key points of fiber laser marking:

#### + Surface marking

Identify each component with text, logo, serial number, graphics, etc.: cutting tools, plumbing fixtures, cooking appliances, electrical connectors...

#### + Engraving

Mark by coating removal or mark on cast, rough surfaces: ID plates, pistons, plastic casings, engine parts...

#### + DataMatrix™, QR codes, barcodes traceability

Accurate and repeatable marks ensure the codes marked will be easily read throughout the process: gear parts, aerospace components, eartags...

#### + Matrix part marking

Mark batches of parts in one pass, and on the smallest surfaces: medical prostheses and implants, electromagnets, key and door locking systems, push buttons...

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