



GRAVOTECH GROUP

Laser YVO₄

Integrable laser marking solution

TD412

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TD412

Nd lasertechnology: diode-pumped YVO₄ generates exceptional beam quality: the near-perfect circular shaped spot makes the tracing of very fine characters possible.

The very high peak power creates strong laser-material interaction: giving a high contrast marking result.

The very short duration laser pulses do not overheat the parts. No deformation of thin and fragile materials, ideal for plastics (no burning).



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Flawless production:

A minimum of optical and mechanical elements offers marking stability and reduced maintenance. $\mathsf{Versatile}\;\mathsf{YVO}_4$ laser marking solution for the permanent identification of any component



HIGH QUALITY PERMANENT MARKING

The high-resolution galvanometric head delivers **precise and repeatable results**. Spot focusing is highly precise: markings are **clean and burr-free**.

FLEXIBLE

The extensive frequency range makes it possible to adapt the rendering of the marking to each individual application and type of material.

Deep, surface, contrast, shaded marking, multiple effects are possible on the most diverse of materials: steel, titanium, plastics, ceramics etc.

and also on **highly reflective materials** (brass, gold, silver, polished stainless steel etc.).



 Compatible with electrical cabinets

Characteristics

Total solutions:

Available in an integrable version, workstation or customised version (turntable, automatic door etc.), the TD412 laser is **modular and evolutive** to meet the particular requirements of each individual customer.

Full range of accessories:

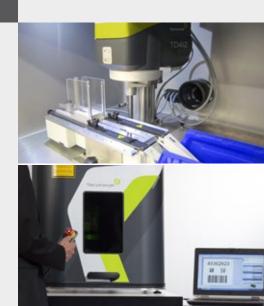
- 100-160-254-330 mm focal lenses
- Fume extractor
- Part rotation system
- Motorised Z axis
- Class 1 Workstation (door closed)
- Second focusing diode
- Automatic plate feeder
- 1D and 2D code reader

EASY TO USE

- **Software dedicated to marking and traceability**: intuitive with a graphic interface and simulation mode, use of the T700W can be mastered in just a few clicks.
- Integrated focusing diode: facilitates the positioning of workpieces.
- High-performance electronics and connectivity: connects to PC, PLC and code readers or independent operation.

DESIGNED TO LAST

- Head made from robust yet light cast aluminium: easy and long-term integration into even the harshest of industrial environments.
- Autonomous: air cooled with integrated fans (no external cooling unit).
- Maximum safety: protected optical fibre, integrated safety shutter.



Applications

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Automotive Aeronautics Plastics Medical Plumbing Cutlery Business gifts Electronics Electrics Semi-conductors Mechanics Locks and keys Tooling



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TD412_Leaflet_EN_V1_0215 - The information, photos and illustrations contained in this document are not contractually binding and may be modified without prior notice. Windows® is a registered trademark of Microsoft Corporation. ©Gravotech Marking - 466 rue des Mercières - Z.I. Périca - 69140 Rillieux-la-Pape - France SAS au capital de 8 437 520 € - SIRFN : 334 818 515 RCS I von. The versatile TD412 satisfies the most varied of marking needs on titanium, steel, stainless steel, copper, plastic, ceramics, aluminium, brass, gold, silver etc.

- Surface marking: DataMatrix[™] codes, serial numbers, references...
- Contrast marking: logos, graphics, text etc.

Excellent on plastic, marking is permanent with no burning or surface deterioration:

- ABS, PA, PC, PMA, POM, plastics coated with an additive etc.