SIC MARKING

LASER MARKING

WORKSTATION

WITH AUTOMATIC

TAGFEEDER

- ALL IN ONE
- AUTOMATED
- VERSATILE

TAGMARK LASER

CLASS 1 LASER EQUIPMENT

ATTENTION WHEN OPEN :
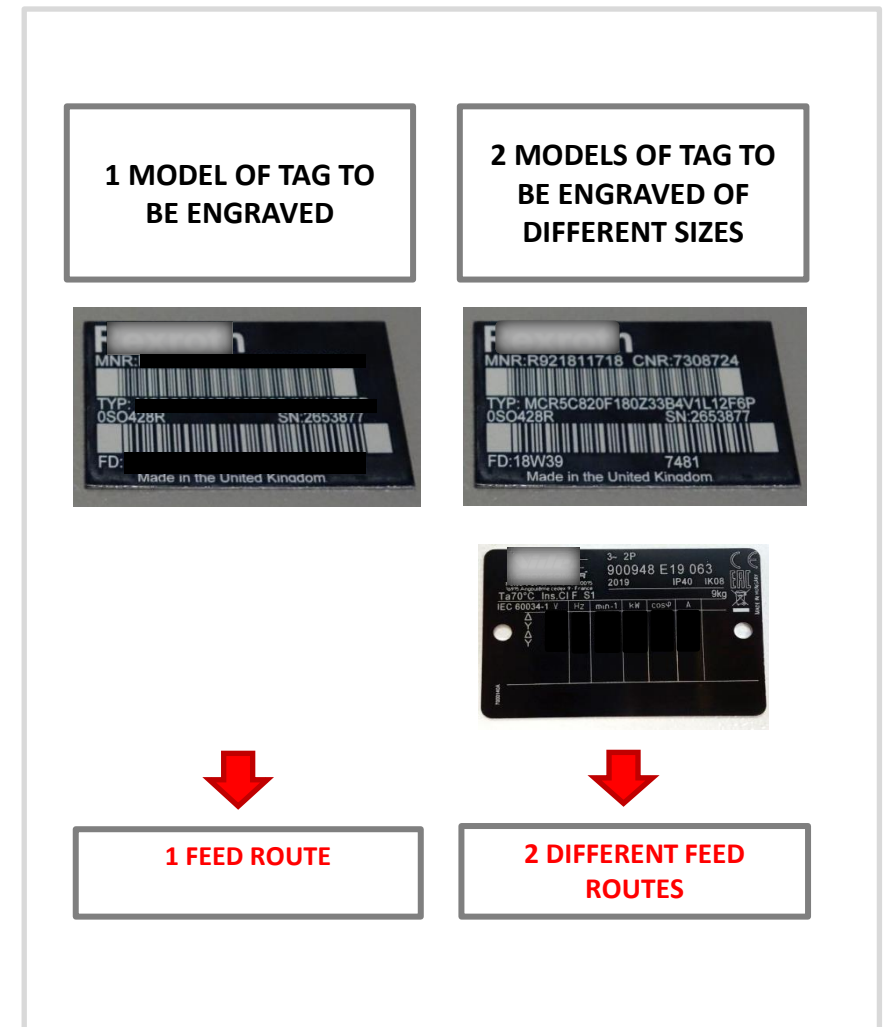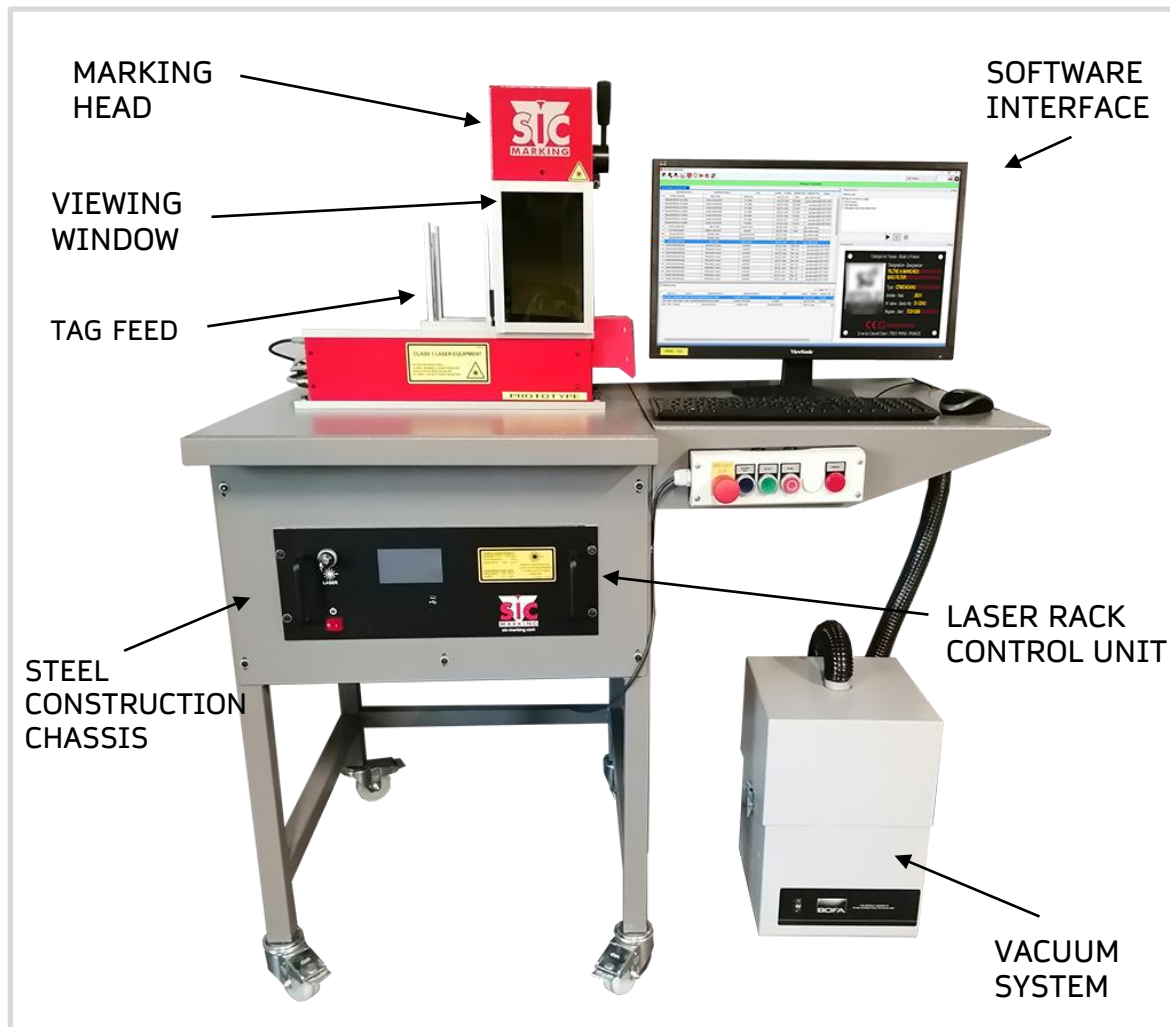CLASS 4 INVISIBLE LASER RADIATION
AVOID EYE OR SKIN EXPOSURE
TO DIRECT OR SCATTERED RADIATION
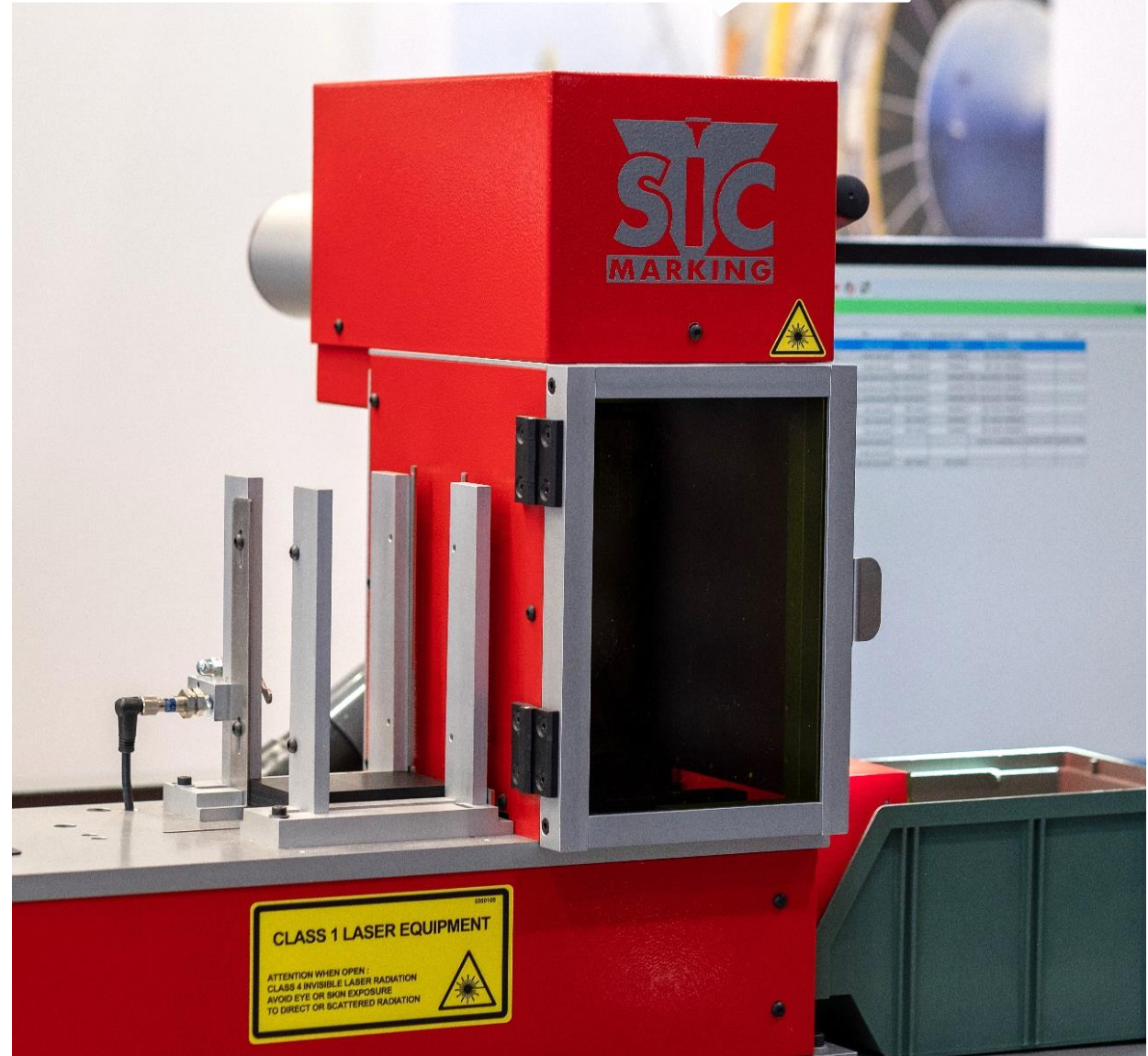
PRODUCTIVITY & SAFETY IN THE WORKSHOP FOR TAG MARKING

The **TAGMARK LASER** is a complete automated system that will allow you to simultaneously manage the supply and marking of your tags, on a single workstation, secure and synchronized with your own data.

MARKING HEAD

SOFTWARE INTERFACE

VIEWING WINDOW

TAG FEED

STEEL CONSTRUCTION CHASSIS

LASER RACK CONTROL UNIT

VACUUM SYSTEM

1 MODEL OF TAG TO BE ENGRAVED

2 MODELS OF TAG TO BE ENGRAVED OF DIFFERENT SIZES

1 FEED ROUTE

2 DIFFERENT FEED ROUTES

The tags feed can therefore be done via one or two routes if you have two different sizes of plates.

1 route

2 routes

Tag specifications*

N. Of routes \ Tags dim.	Minimum width (mm)	Max width (mm)	Minimum length (mm)	Max length (mm)
1 route	12	1 0 0	3 0	1 0 0
2 routes	12	Up to 170 mm**	3 0	1 7 0

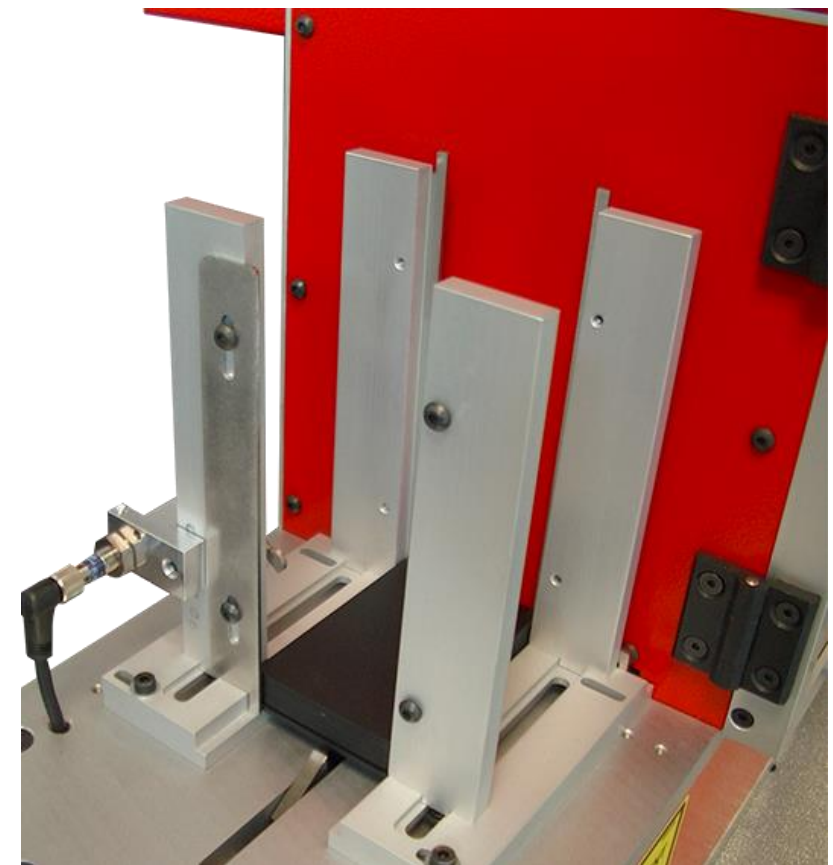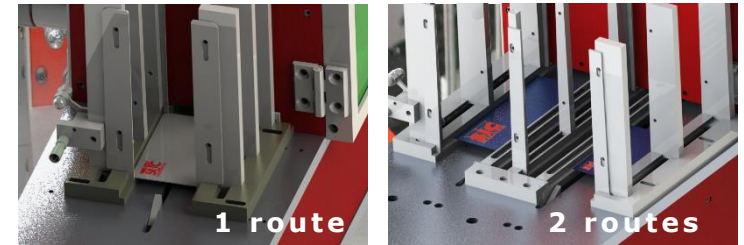** The combined width of the two tags should not exceed 170 mm

Tags thickness: 0.5 to 2 mm
Burr-free and non-greasy tags without protective film

Loading rack*

The standard stacking height is 150 mm.

*OTHER DIMENSIONS AND FEATURES CAN BE DESIGNED AND MANUFACTURED ON REQUEST.

TAGMARK LASER

TAG MARKING

Tags are marked in series and automatically, without the need for an operator.
The marking can also be done individually if desired.

Laser specifications

The TAGMARK LASER is equipped with an i104 EASY laser machine with a
20W fibre laser source.
Other powers are available for deeper marking or higher speed.

PLC

RS232
Fieldbus
I/O

Optical Fiber

Steering cable (x, y, z)

Advanced diagnosis
function

TOUCHSCREEN

+ TECHNOLOGY & DESIGN

- Operating method: pulsed (variable frequency)
- Consumption: 750 W
- Wavelength: 1 064 nm
- Digital axis control (linear and rotary)
- Ultra Compact: 4U height (177mm)

+ COMMUNICATION CARDS (optional)

EtherNet/IP   PROFI NET®   PROFI BUS®

+ RELIABILITY AND PERFORMANCE

- Long-life components (≥ 100 000 h)
- Self diagnosis function
- Cooling: by air only
- Warranty: 2 years (5 years optional)

+ OPERATING

- Laser driven by «SIC LASER» software
- USB interface, Windows environment
- User-friendly interface with icons navigation

Marking area

The laser marking area is secured in a Class 1 certified enclosure.
The enclosure is equipped with a viewing window.

Case of unit marking

Unit marking is quite possible, especially if :
- you wish to mark a tag whose dimensions do not correspond to those of the tag supply
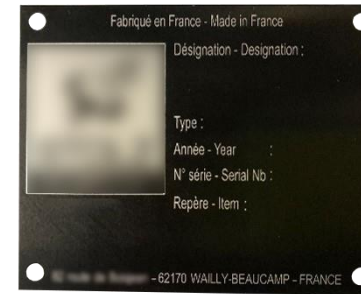- you have a one-off marking to do

In this case :
- a specific support allows the precise placement of the tag in the enclosure
- a handle allows the laser beam to be adjusted to the appropriate height

TAGMARK LASER

SOFTWARE INTERFACE

The software interface has been designed for easy TAGMARK LASER configuration and use. In the chosen language, the HMI manages your different marking needs according to your user profile. It remains customizable beyond the predefined cycles and keeps the history of your data.

E x a m p l e   o f   a n   e n g r a v i n g   p l a t e :

USER PROFILE CHOICE

PREDEFINED CYCLES

MARKING FILES

FILE HISTORY

**PRE-VISUALISATION OF THE MARKING ON THE TAG**

Quick and easy import of your marking data

- The transfer of your marking data between your source files and the TAGMARK LASER software interface is quick and easy. These files can be stored on your network or on the PC that hosts the software interface.
- The imported marking data are : mask choice, variables, tag quantities.
- File selection and data entry is possible by 1D or 2D barcode reader.
- Database formats: "csv", "xlsx" or "xls". On request, the interface to your SQL database can be developed.

Live view of your marking mask

⬅ Blank plate as input.
Scanned, the software instantly displays it with your marking data.
THIS AVOIDS ANY ERROR IN ASSIGNING DATA TO AN INAPPROPRIATE FIELD.
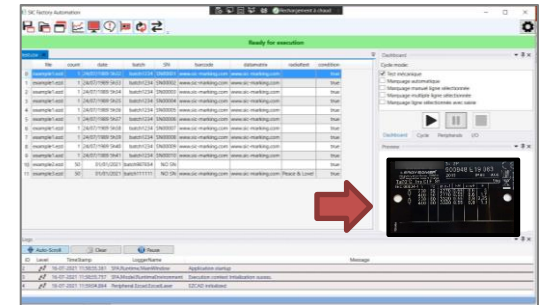
Choice of usage mode to suit the user profile

The TAG MAN LASER has three use modes.
- The **CONFIGURATOR MODE** which allows the start-up of the equipment as well as the customisation of certain advanced parameters.
- An **ADVANCED OPERATOR MODE** which allows the modification of the marking criteria : marking file, variables and quantities of tags to be engraved.
- An **OPERATOR MODE** that starts the marking process.
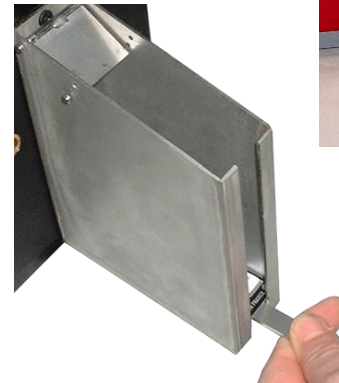
Marking cycles customisation

In CONFIGURATOR MODE, it is possible to customise the marking cycle, in particular the cycle triggering and tag detection.

Recovery of engraved tags at output

After marking, the tags are disposed of in a collecting try.

AS AN OPTION, WE OFFER A GRAVITY COLLECTION SYSTEM THAT ALLOWS FOR AN ORDERLY STACKING OF THE TAGS.
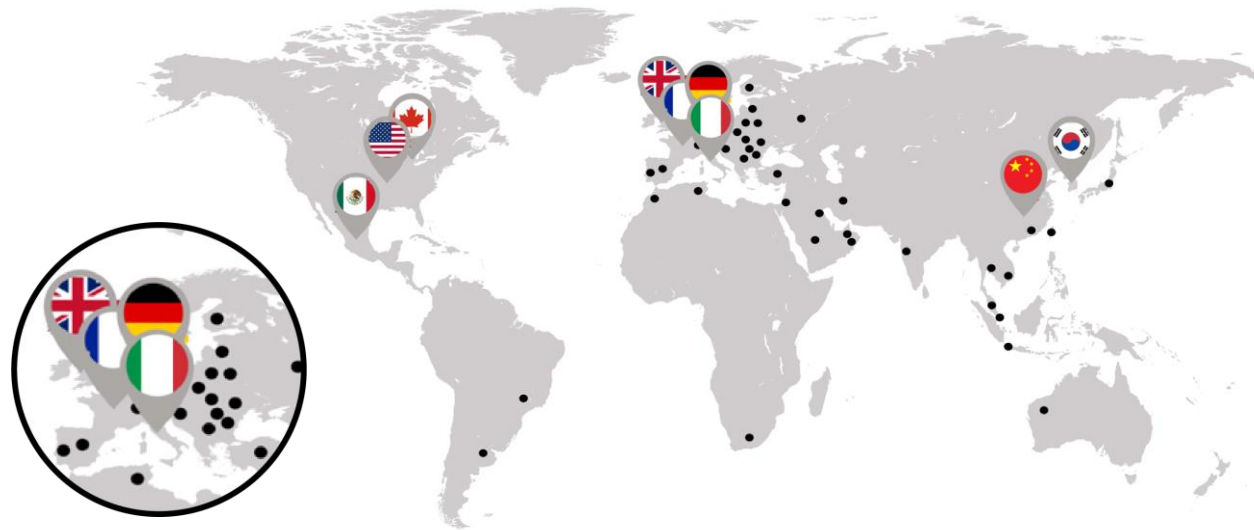
Vacuuming

To guarantee optimal and long-lasting operation of the TAGMARK LASER, it is SOLD WITH A VACUUM SYSTEM.

Flow rate between 180 m3/h and 330 m3/h.

SIC MARKING
supports its customers worldwide.

Don't hesitate to contact us.

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