

**topex**<sup>®</sup>

**A LIFETIME  
OF PRODUCT  
LABELLING AND  
TRACEABILITY**

# laser technology.

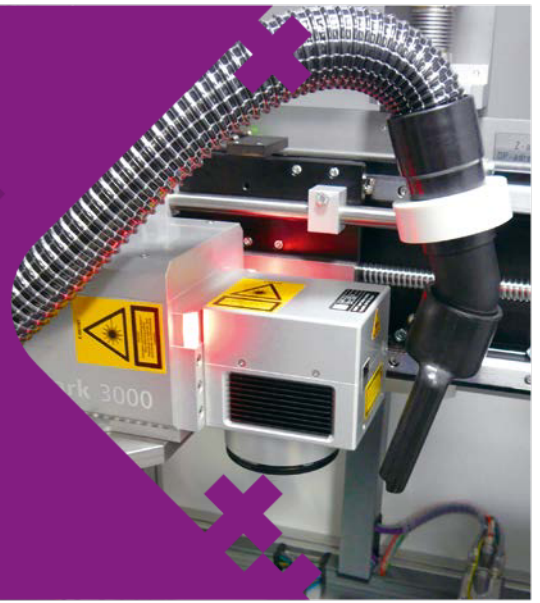
High tech to the  
perfect result



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## Special machines

Labelling and cutting systems built according to the customer's specifications



### Special machines for separation, marking and magazing of milling tools

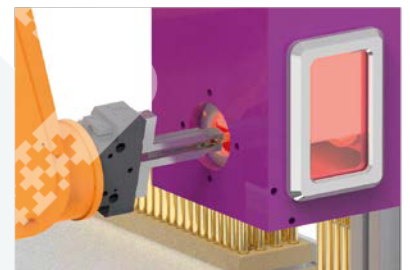
- + The tools are removed from a magazine by a 6-axis robot.
- + Automatically measured and cleaned before the robot takes them to the laser marking area.
- + In this area, the parts are directly marked with a fibre laser.
- + The rotary axis on the robot allows marking around the entire circumference of the tool shank.
- + The finished tools are then deposited in a corresponding magazine.



Unstackable magazine



Station for measuring the shank diameter



Marking position in the protective laser hood

# Laser foil marking

## topex 5640 Mobile laser cell in compact form

Our Laser-marked foils and labels meet the highest requirements for resistance; e.g. to mechanical influences, liquid media such as solvents, salt spray, etc. or temperature influences. This enables a wide range of applications in the automotive or industrial sector.



topex 5640 basic laser marking unit



Foil is lasered



Lasered foil

## Advantages

### Standard

- + CO<sub>2</sub> laser for marking and format cutting with subsequent separation all in one step
- + Software module for optimised cutting of sets of nameplates
- + Internal unwinding for large rolls up to 300 mm in diameter
- + Highest precision possible due to low pressure vacuum foil stabilisation
- + Marking up to the zero edge possible

### Options

- + Solid-state laser for colour change foils
- + Integration of other marking lasers
- + Mechanical cutter
- + External winding
- + Software module for segmenting large labels (> 120 mm)
- + Software module for cut optimisation
- + External extraction system for particle dust

## Areas of application

### Laser marking of

- + Labels
- + Name plates
- + RFID-Label
- + Cables
- + Plastic cable lugs (using an Nd-YAG laser)
- + Clamping nuts
- + Housing/Enclosure



# Laser workstation

## Stand-alone stations or integrable in an existing production line

Our ECO workstations impress by virtue of the outstanding value to quality performance ratio. For applications involving a lower level of automation, they are an attested alternative to the other 5000-series workstations. Their exceptional versatility can be seen in offering a choice of diode pumped ND-YAG lasers or CO<sub>2</sub> marking lasers. They can easily be expanded with our supplementary modules.



## Optional

- + Stepping-motor driven parts handling system for all-around marking
- + T-groove drawer
- + Rotary indexing table
- + Manually operated Z-axis
- + Motor driven safety door

## Modules

### LM 5500 laser foil module



Our high performance solution for flexible label handling meets the toughest demands for reliability, In-Service lifetime and safety. Ideal for heavy duty industrial use in multi-shift operation.

- + Marking and formatting of endless laser foil of pre-cut laser labels
- + Electrical cutter for the production of individual labels and sets of tags
- + Vacuum chamber below the marking surface ensures flat positioning of the label material
- + Material retraction to zero edge
- + Software module for segmenting large labels (> 120 mm)
- + Software module for cut optimisation
- + Roll diameter up to 300 mm

### TM 5200 name plate module



For marking anodised or stainless steel name plates.

- + For automatic separation of blank tags into the marking area
- + Processing based on the FiFo principle
- + Quick-change magazines for different formats
- + Magazine heights up to 200 mm
- + Magazine fill level control
- + Optional: manual positioning table for special formats



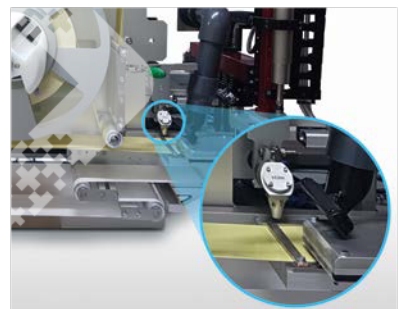
# Laser cutting

## Automated cutting of endless foils

Format-independent processing of self adhesive or double-sided adhesive (endless) foils is completely straightforward with this technology. A CO<sub>2</sub> laser with an appropriate cutting head ensures maintenance-free cutting, even through thick layers of adhesive. With a two-axis portal, even contour cuts are possible.

### Advantages

- + CO<sub>2</sub> laser with cutting head for maintenance-free cutting
- + Stroke-independent motorised linear unit for integration of the cutting head
- + Adjustable laser power for a wide variety of different materials and material thicknesses
- + Cutting of double-sided adhesive - endless foils possible
- + Optional: contour cut with 2-axis cutting portal



Your system supplier for complex  
labelling solutions

## automated labelling

Our product and service portfolio is geared towards customers who are looking for more than just standard solutions. With cutting-edge technology and engineers, we place our skills at your disposal. We offer sophisticated, well thought out system solutions for almost all industrial application areas.

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