



Foil Star

Thoroughly sophisticated

Laser stations with guaranteed quality

Laser stations from ACI are designed as manual workstations for laser material processing of individual parts and small series, as well as fully automated all-in-one solutions for large quantities.

The **Foil Star** is a film handling system which is used in cases where it is not possible to mark the material directly using a laser beam. Long-lasting, high-quality and resistant marking of special films and labels can be achieved in large quantities using the Foil Star. Turnkey system solutions in accordance with laser safety class 1 guarantee maximum safety. No additional safety devices are required. The ergonomically optimised device structure of the benchtop workstations and the practice-oriented functionality ensure excellent user satisfaction.

The **Foil Star** can be combined with all marking lasers from ACI and is ideal for film marking.

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Foil Star



Foil Star

The handling system for laser films

Labels which are resistant to the effects of temperature, abrasive wear, chemicals and atmospheric influences; on which neither colours nor writing smudge or fade – these specifications are perfectly met with our **Foil Star** laser station. Any 2D contour that you care to think of is possible.

The strong adhesion of the special films provides excellent protection against warranty fraud and counterfeiting. Additionally, predetermined breaking points ensure that the labels cannot be completely removed and will tear if an attempt is made to remove them.

→ Properties and optional features

→ Technical specifications

→ Application examples

Properties

The **Foil Star** is equipped with an integrated cutting blade as standard for cutting off finished label sets.

The user-friendly **Magic Mark V3** marking software is included in the scope of supply. In addition to fixed lay-outs, the optionally available data import plugin allows customised marking content to be imported from Excel or XML tables, for example. The script application can be used to quickly and flexibly extend the software to meet customers' specific requirements.

Equipment Foil Star	Can be combined with the following lasers	Optional features
Continuous mode: Use of a continuous web of materials Label mode: Precut labels from the roll Laser extraction system Forward and backward feed Integrated cutting blade	Economy Diode ● Economy Fibre ● Business Diode ● Business Fibre ● Business CO₂ ● ● Yes — No	Desktop or industrial PC External winding unit Roll diameter 300 mm Various objects available according to desired marking field size

Technical specifications

Foil Star & Foil Star XL

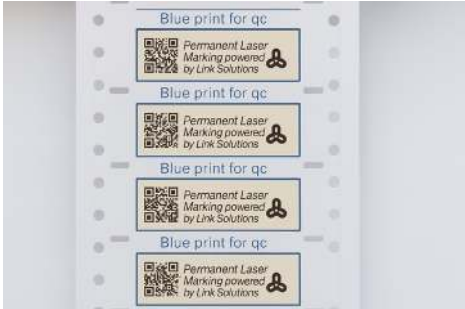
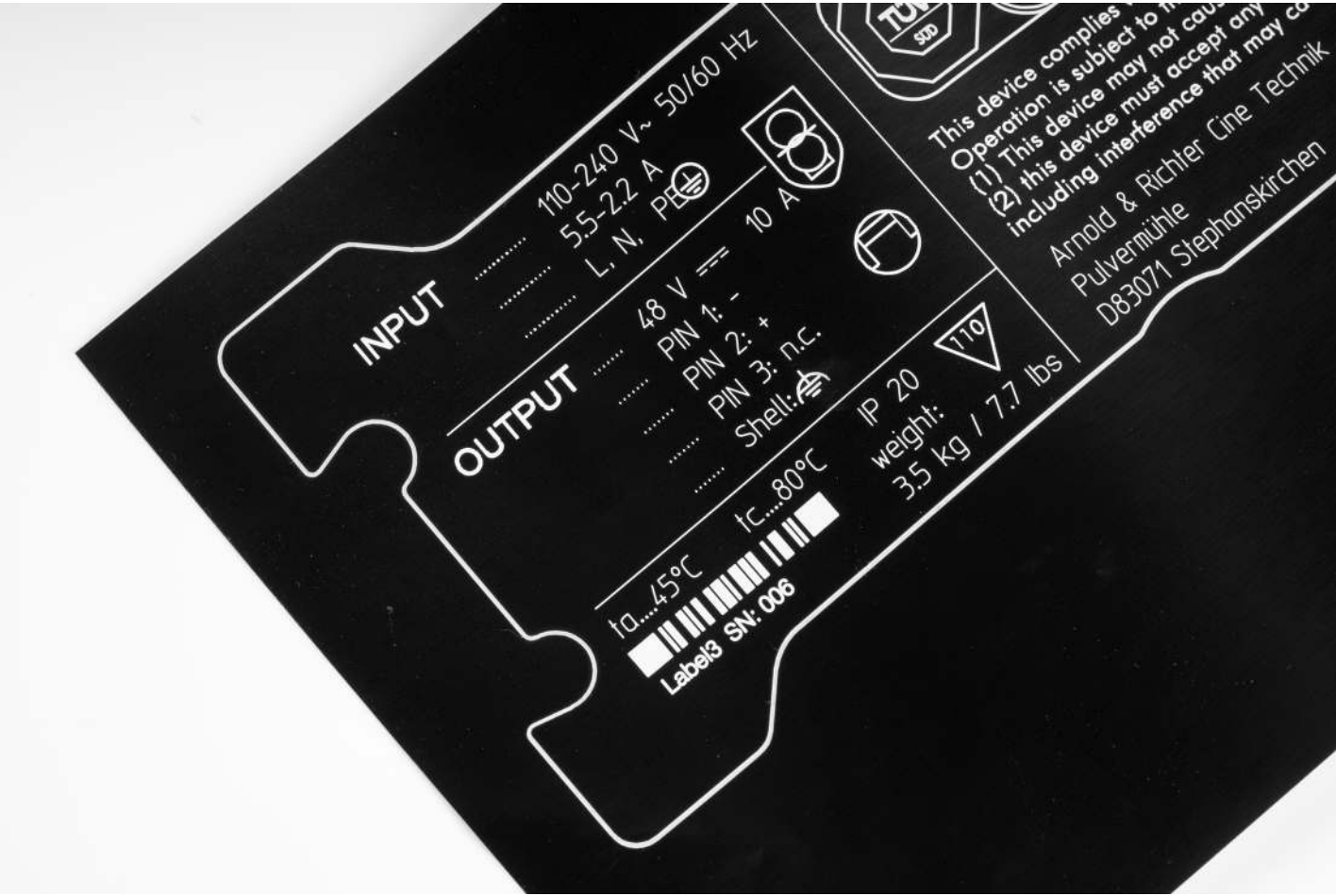
	Foil Star	Foil Star XL
Size (max.) L xWxH ¹	847 × 373 × 426 mm	886 × 373 × 533 mm
Weight	26 kg	27 kg
Diameter of attachable film rollers	300 mm	
Label width	120 mm	
Feed rate	100 mm / sec	
Marking area WxD ²	max. 120 × 160 mm	120 × 200 mm
Resolution	Up to 725 dpi	
Laser class	1	
Functional safety in accordance with DIN EN ISO 13849-1	PLe	

1 Information provided includes feet but excludes laser

2 Depending on the lens of the laser marking system used



Application examples



Laser ablation or color change on laser foils

Marking process

Laser ablation films and colour change films can be used on the **Foil Star**.

The laser ablation films usually consist of two coloured layers. Targeted parametrisation allows the top layer to be removed and the contrast layer beneath to be exposed, as well as the label to be cut out in any shape down to the backing.

Once it has been finished, the label can be removed from the backing and affixed to the component.

The effect of the laser beam does not remove the colour layer on the colour change film but changes its colour, producing a corresponding contrast.



Control

The film transportation and marking process are controlled using the **Magic Mark V3** software included in the scope of supply, which features an integrated **Foil Star** plugin.



The integrated **Foil Star** plugin (Fig. 1) is used for connecting and controlling the **Foil Star** and for the fully automated processing of marking templates. Any number of marking jobs (Fig. 2) can be defined. The number of labels on a predefined length of film can be configured, as can the total number of labels. Multiple predefined label

templates can be combined into one marking job and can be processed in batch mode with a click of the mouse.

Specialists require little training to operate the program for creating and processing marking jobs.

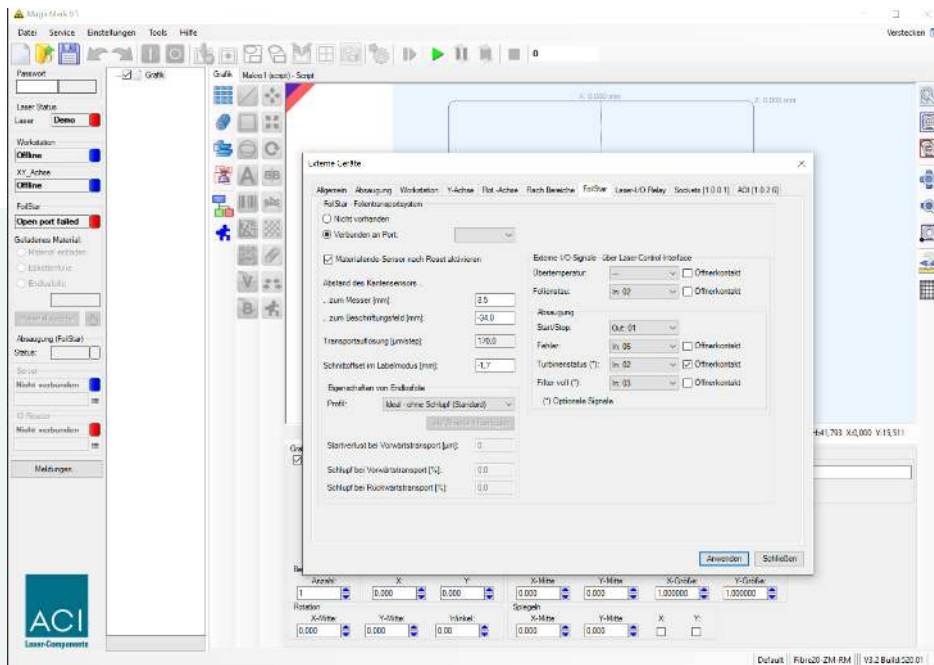
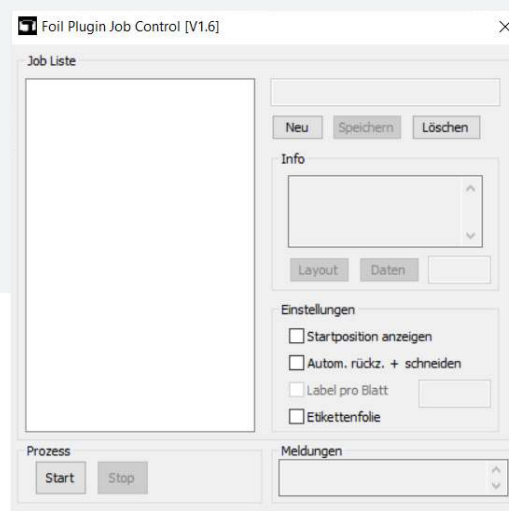


Fig. 1
Magic Mark software interface with Foil Star plugin and Foil Star configuration window.

Fig. 2
»Job Control« for Foil Star plugin:
Program for creating and processing marking jobs





Partnerships with ACI Laser

Benefits for customers

The search for excellent partnerships is at the heart of everything we do. We offer our customers sustainable solutions based on all-encompassing advice, reliability and stability.

ACI Laser embodies:

- ✓ *Made in Germany* development and production with over 25 years of experience
- ✓ Complete solutions from a single source: Laser systems, protective housings, software and accessories
- ✓ Customisable laser systems
- ✓ Functions can easily be added to the software using plugins


Made in Germany



We would be happy to advise you.

We guarantee you a tailor-made, all-in-one solution that meets the requirements of your application. Our experienced sales team provides you with comprehensive, in-depth advice. We look forward to hearing from you.

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