SpeedMarker 700

trotec

SpeedMarker Series

Industrial Laser Marking

The Most Complete Tool for Industrial Laser Marking

The SpeedMarker laser series was designed to efficiently mark metals and plastics along the industrial production chain. With a perfect combination of intelligent software and high quality hardware, SpeedMarker lasers produce permanent, durable markings for applications such as barcoding datamatrix codes, serialization, and deep engraving. Available with customization and integration options, Trotec laser marking solutions also come with intelligent, intuitive software and exceptional support.

SpeedMarker laser marking systems are available in four different sizes and various configurations to meet your individual requirements. Trotec laser experts can also combine a broad range of options to accommodate unique requirements and special tasks.

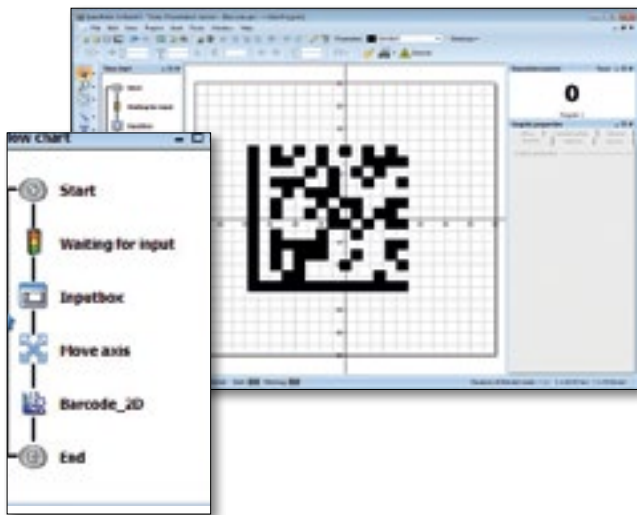Process tricky applications such as ball bearings and curved surfaces

Barcoding on several types of plastic

Dataplates and industrial tags for machines and parts

Annealing: mark without changing the part's surface structure

One Software Package for All Your Needs: SpeedMark

Developed to support automated marking processes, the included SpeedMark software provides program modules for typical marking tasks such as producing serial numbers or codes. The modules are easy to adjust, and allow users to create custom marking programs using graphical flow control. From simple direct input to fully automated marking, everything is possible – with no need for any special programming knowledge. Additional features include:

- Automatic, consecutive barcode generation
- Customizable user interfaces
- Material database for managing marking parameters
- Management of various user rights
- Interfaces to external systems such as databases
- Deep engraving function and processing of dynamic data

Higher Contrast and Colored Marking

Offered as an option for SpeedMarker systems, the MOPA fiber laser source opens up a new world of possibilities for marking metals and plastics because it allows the user to select pulse durations (between 4 and 200 ns), which provides a much wider range of laser parameters, more options for creating high-contrast, homogeneous markings, and the ability to mark colors on some metals.

Deep engraving in fewer passes

Company logos and information

Datamatrix codes and precise markings in hard-to-reach places

Durable marks withstand harsh environments for the lifetime of part

SpeedMarker 100
- Open laser safety class 4 system
- No housing for ultimate flexibility in part size
- Electrical Z-axis for precise focusing

SpeedMarker 300
- Compact high-speed desktop workstation
- Industrial laser marking on minimal footprint
- Closed laser saftey class 2 system

SpeedMarker 700
- Medium-sized versatile laser marking workstation
- Automatic door for efficient part handling
- Software-controlled axes and rotary table

SpeedMarker 1300
- Large format galvo laser workstation
- Marks large and heavy parts or high volume parts in trays
- Highest flexibility due to software-controlled X- and Y-axis

Features and Options

Modular concept to meet unique needs
The housing of a SpeedMarker system can be fitted with a pass-through hatch and removable side covers so you can mark bulkier workpieces. In these cases, the system is classified as laser class 4. A SpeedMarker system can also be extended by using handling options such as conveyor belts or rotary tables.

Rotary unit
Engrave circular or conical objects by adding a rotary unit (which is controlled using the laser software).

Additional lenses
Lenses of focal length F 100, F 254, F 330 and F 420 are available in addition to the standard F 160 lens. This enables you to adjust the size of the marking field at any time, thereby allowing you to meet a broader range of marking needs.

High-performance galvos
Our high-performance galvos mark up to 900 characters per second allowing you to increase output and boost efficiency.

Maintenance-free fiber laser
The high-speed, air cooled and maintenance-free SpeedMarker fiber laser marks metals and a broad range of plastics without chemicals or other consumables.

Focus finder
A second laser pointer enables precise focusing directly on the workpiece without the need for additional equipment.

Pilot laser for border marking
All SpeedMarker systems have a laser pointer to help the user set up the workpiece quickly and easily. It works by displaying the edges of the marking on the workpiece, allowing the user to adjust the size of the mark to optimize setup.

Axis concept for ultimate flexibility
Select the optimum setup for your application: Choose from a mechanical Z-axis (which is adjustable using a hand wheel), an electrical Z-axis, or software-controlled Z-axis (controlled via the software or the keyboard on the machine itself). X- and Y-axes are available for several products. These are software-controlled and enable you to mark larger fields and parts.

Automatic and programmable door
For faster and more ergonomic part handling, the SpeedMarker 700 and 1300 are equipped with an automatic door that can be programmed using SpeedMark software.

Autostart function
You can automatically start a laser job by closing the hood, making the task quick and simple.

The SpeedMarker Series

	SpeedMarker 100	SpeedMarker 300	SpeedMarker 700	SpeedMarker 1300
Exterior dimensions (W x H x D)	14.8 x 26.2 x 31.5 in (375 x 666 x 800 mm)	22.1 x 25.7 x 33.5 in (572 x 653 x 851 mm)	30.7 x 70.9 x 37.8 in (780 x 1802 x 960 mm)	51.2 x 70.5 x 37.8 in (1300 x 1790 x 960 mm)
Maximum marking area (depends on lens)	9.45 x 9.45 in (240 x 240 mm)	7.5 x 7.5 in (190 x 190 mm)	12.2 x 12.2 in (310 x 310 mm)	12.2 x 12.2 in (310 x 310 mm)
Available axis	Z, A (rotary)	Z, A (rotary)	Z, X, Y, A (rotary)	Z, X, Y, A (rotary)
Maximum working area (Segmentation via axis system)	–	–	24.8 x 23.6 in (630 x 600 mm)	44.1 x 25 in (1120 x 635 mm)
Maximum component height	15.7 in (399 mm)	9.8 in (250 mm)	22.4 in (570 mm)	21.9 in (557 mm)
Laser source	Pulsed, maintenance free fiber laser. Air cooled	Pulsed, maintenance free fiber laser. Air cooled	Pulsed, maintenance free fiber laser. Air cooled	Pulsed, maintenance free fiber laser. Air cooled
Laser power	20/30/50 Watt	20/30/50 Watt	20/30/50 Watt	20/50 Watt
MOPA	20/100 Watt	20/100 Watt	20/100 Watt	20/100 Watt
Door	–	Manual	Automatic	Automatic
Laser safety class	4	2	2	2
Marking speed	640 cps, 900 cps option			
Software	SpeedMark			

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