

trotec

# PRODUCT CATALOG trotec/Gold Partner

Lasercutting, laser engraving, laser marking & laser programs

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# LOGIMARK STANDS FOR **PRESENT – FUTURE** AND IS AN OBVIOUS CHOICE FOR EVERYONE WITHIN THE MANUFACTURING INDUSTRY.

Our range of marking equipment offers, among other things, faster printing speed, longer service intervals, higher traceability, less maintenance and secure systems for productions. Our marking machines shows winning characteristics that make them the easiest and most reliable on the market!

Do you want to know more about what we recommend for your production? We are more than happy to meet you at your facilities to demonstrate the equipment and test it live on your products!



# FOR A REMARKABLE DIFFERENCE

# Our "Logimark Warranty" for you as a customer

All of our equipment is delivered with what we call Logimark's functional warranty. It is our own commitment to ensure that you as a customer receive the right equipment that meets your requirements and wishes.

#### Mechanical engineering

We manufacture machines with a customeroriented design and our user-friendly systems make the machines easy to use and maintain. Our marking systems are designed to meet production needs in all industries. In-house we have designers, assemblers, programmers, vision camera experts & project managers who, together with you, develop the best solution for your production.

#### Service agreement

We give you the opportunity to sign a service agreement for most of the machines we deliver. Service contracts facilitate the planning of maintenance and ensures that your fleet is kept in good condition. We are responsible for making contact at predetermined intervals.

#### Spare parts, accessories and consumables

In Malmö, we have our extensive central warehouse which includes machines, spare parts, engraving accessories and consumables such as laser material, e.g. laminate, acrylic, wood and paper. This enables safe and fast deliveries, which gives you, as a customer, peace of mind.

#### Techincal service and support

Logimark has specially trained technicians to help you with start-up and service of your laser machine. We also train your operating and maintenance staff if desired. Our technicians perform preventive maintenance on your machines and perform emergency service if necessary. Service and maintenance can be carried out at the customer's premises or in one of our workshops.

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# THE R-SERIES

# Affordable laser cutters/laser engravers in the R-Series

- The R series was engineered by Trotec to meet all your laser cutting and engraving needs at an affordable price.
- With the R-Series you can cut and engrave acrylic and wood up to 15 mm, textiles, paper and much more.
- The ergonomic and open design of the laser cutter simplifies the positioning of the material and guarantees efficient handling.
- With the new Ruby software you can easily design and import images from any image processing -and CAD software.
- Meets the highest safety standards.





| R400                          | R500   |
|-------------------------------|--|
| 1030 x 630 mm                 | 1300 x 900 mm  |
| 100 W                         | 120 W  |
| CO <sub>2</sub> DC            | CO <sub>2</sub> DC   |
| 200 mm                        | 45 mm  |
| 2 m/s                         | 2 m/s  |
| 1550 x 1080 x 1080 mm         | 1870 x 1700 x 1110 mm  |
| 300 kg                        | 570 kg   |
| 100-250 V, 1200 W             | 100-250 V, 1100-1500 W   |
| 900 W                         | 900 W  |
| Ruby®                         | Ruby®  |
| 4.0" lens, Rotary attachment, | 4.0" lens, Aluminium slat cutting  |
| Aluminium slat cutting table, | table, Exhaust system, External  |
| Exhaust system                | variable power meter via RJ45-   |
|                               | connection   |
|                               | R400         1030 x 630 mm         100 W         CO2 DC         200 mm         2 m/s         1550 x 1080 x 1080 mm         300 kg         100-250 V, 1200 W         900 W         Ruby®         4.0" lens, Rotary attachment,         Aluminium slat cutting table,         Exhaust system |



# Aluminium slat cutting table

The aluminum cutting table with slats is optional and is suitable for laser cutting materials thicker than 8 mm and for parts wider than 100 mm. The slats can be positioned individually, allowing the table to be adapted to each individual application.

# Aluminium cutting grid table

This cutting board is the perfect solution for all general laser cutting. It is suitable for parts smaller than 100 mm, as these remain in a flat position after the cut, offering a more supported area than the aluminum slat cutting table.The cutting table is included in the basic configuration.



# Rotary engraving attachment

A rotary attachment for a laser engraver is a device that allows you to engrave or mark cylindrical, conical or round objects, for example glasses, bottles, pens and mugs. Upgrade your R400 with this attachement.

# Working area



rayiet

Reference size 15.6" Laptop

# **THE Q-SERIES**

# Offers the best price-performance ratio

- The Q series is a mid-range laser that combines all of Trotec's features for efficient and highquality laser engraving and cutting.
- With the Q series you can cut and engrave a variety of materials such as acrylic and wood up to 15 mm, textiles, paper and cardboard, leather and cork.
- With the Q series, there is also the option of Trotec's Print & Cut for precise cutouts.
- Achieve excellent results in both cutting and engraving. The built-in DC CO2 laser sources for fast cutting and CeramiCore<sup>®</sup> RF CO2 for high quality engraving.
- Trotec's central OptiMotionTM technology enables both fast and precise laser processing.





|                                | Q400   | Q500   |
|--------------------------------|--|--|
| Working area                   | 1030 x 630 mm  | 1300 x 900 mm  |
| Laser power                    | 60 RF / 100 W DC   | 60 RF/ 120 W DC  |
| Laser source                   | $CO_2 DC/ CO_2 RF$   | $CO_2 DC / CO_2 RF$  |
| Max. height of workpiece       | 200 mm   | 45 mm  |
| Max. processing speed          | 2 m/s  | 2 m/s  |
| Overall dimensions (W x D x H) | 1550 x 1080 x 1080 mm  | 1870 x 1655 x 1110 mm  |
| Weight                         | 300 kg   | 570 kg   |
| Power consumption              | 100-250 V, 1200 W  | 100 - 250 V, 1100-1500 W   |
| Software                       | Ruby®  | Ruby®  |
| Options                        | Vision Print & Cut, Aluminium slat<br>cutting table, Exhaust system, 4.0"<br>lens, Rotary attachment | Vision Print & Cut, 4.0" lens,<br>Aluminium slat cutting table,<br>Exhaust system, External variable<br>power meter via RJ45-connection, |



#### One investment - two tools

The built-in DC CO2 laser sources for fast cutting and CeramiCore ® RF CO2 for high quality engraving. CeramiCore generates a radiation that is 100% ceramic and can therefore be used under very high pressure, resulting in better and faster pulse rates which are essential for excellent highspeed engraving and marking.



#### Inpack Technology<sup>™</sup> - minimal cleaning

Fragile components are protected from dirt and dust by Inpack TechnologyTM with integrated air flushing. This results in exceptionally low maintenance and cleaning costs and thus low operating costs even during intensive use.



#### Sonar Technology<sup>™</sup>

Get automatic focus quickly and easily with a single push of a button thanks to the ultrasonic sensor Sonar TechnologyTM. The laser head detects the surface of the material, the focus point is automatically identified and the work table is moved to the correct focus distance.

# Working area





Reference size 15.6" Laptop

# **Application examples**

















# Productive, flexible, profitable

iiiiiiiii

# THE SPEEDY-SERIES

# The Speedy series presents the market's fastest laser engraving machine

- The current engraving speed of 4.32 m/s makes the Speedy 400 the fastest laser engraving machine on the market.
- First-class components and a reliable mechanical design guarantee minimal maintenance and maximum uptime.
- The patented technology Flexx TechnologyTM enables laser technologies CO2 and fiber laser in the same machine, which gives endless possibilities of use.
- Can process several materials such as wood, glass, plastic, paper, leather and metal.
- With Ruby® software you can create graphics, photos and text elements and make quick changes.
- Achieves the best possible contour precision with the highest cutting productivity.



|                                | Speedy 50                  | Speedy 100                   | Speedy 300                    | Speedy 360                    | Speedy 400                    |
|--------------------------------|----------------------------|------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Working area                   | 457 x 305 mm               | 610 x 305 mm                 | 726 x 432 mm                  | 813 x 508 mm                  | 1016 x 610 mm                 |
| Laser power                    | 30 -80 W                   | 30 - 60 W                    | 30 - 120 W                    | 60 - 120 W                    | 60 - 120 W                    |
| Laser source                   | CO2                        | CO₂/Fiber                    | CO₂/Fiber                     | CO₂/Fiber                     | CO₂/Fiber                     |
| Max. height of workpiece       | 115,5 -140,9 mm            | 170 mm                       | 200 mm                        | 210 mm                        | 305 mm                        |
| Max. processing speed          | 1,5 m/s                    | 2,8 m/s                      | 3,55 m/s                      | 3,55 m/s                      | 4,32 m/s                      |
| Overall dimensions (W x D x H) | 726 x 425 x 685 mm         | 1018 x 784 x 467 mm          | 1130 x 943 x 1054 mm          | 1221 x 830 x 1055 mm          | 1428 x 952 x 1050 mm          |
| Weight                         | 53 kg                      | 95 - 150 kg                  | 150 - 215 kg                  | 250 - 285 kg                  | 310 kg - 350 kg               |
| Power consumption              | 110-230V 50/60Hz, 800 W    | AC 110 - 230V 50/60Hz,       | AC 110 - 230V 50/60Hz,        | 230V / 50/60Hz / 9.6A         | 230V / 50/60Hz / 10.2A        |
|                                |                            | 0.83 kW - 1.3 kW             | 0.94 KW - 1.8 kW              | 115V / 50/60Hz / 14.2A        | 115V / 50/60Hz / 15.3A        |
| Software                       | Ruby®                      | Ruby®                        | Ruby®                         | Ruby®                         | Ruby®                         |
| Options                        | Rotary attachment, Trolley | Rotary attachment, Gas kit,  | Rotary attachment, Gas        | Rotary attachment, Gas        | Rotary attachment, Gas        |
|                                | base, Honeycomb tabletop,  | Trolley base, 2.0"/2.5" lens | kit,Trotecs Vision Design &   | kit, Trotecs Vision Design &  | kit, Trotecs Vision Design &  |
|                                | 1.5"/2.5" lens             |                              | Position, Vision Print & Cut, | Position, Vision Print & Cut, | Position, Vision Print & Cut, |
|                                |                            |                              | Temperature sensor, Two       | Temperature sensor, Six       | Temperature sensor, six       |
|                                |                            |                              | different work tables         | different work tables         | different work tables Pass-   |

1.5"/2.5"/4.0" lens

1.5"/2.5"/4.0" lens

through kit, 1.5" /2.5"/4.0"

lens



#### Temperature sensor

Some materials (eg acrylic) are highly flammable, especially when cutting. That's why Trotec have constructed the temperature sensor. If the temperature inside the machine exceeds a critical value, the laser will signal this with a warning sound. This guarantees maximum safety for you when using the laser.



# Working area

Speedy 400 1016 x 610 mm



# Flexx Technology<sup>™</sup>

The patented Flexx TechnologyTM integrates two laser sources - CO2 and fiber in the same machine, enabling the processing of different materials in the same job. The CO2 laser source is ideal for engraving and cutting plastic, wood, rubber, leather and many more materials. The fiber laser is the right tool for marking metal and to achieve other contrasts on plastic. The two laser sources are activated alternately in a job without manually changing the laser tube, lens or focus. This ensures the highest processing quality and productivity.



# Ruby<sup>®</sup> - the software that has revolutionized laser work!

A software that enables the daily work with the laser machine to flow smoothly. Ruby<sup>®</sup> contributes to a simple and fast workflow from idea to final product. The platform guarantees profitable order processing and has a network, web-based and completely digital setup.



Reference size 15.6" Laptop

# Features of the Speedy series

# Rotating engraving

With the rotating attachment, you can engrave conical, cylindrical and spherical objects such as glasses, cups, vases and bottles in various sizes. As an option, there is also a special roller attachment that allows the processing of objects with large or small openings that do not fit into the standard attachment.

# Eight focus lenses for perfect results

As a rule of thumb, the following applies to the focus lenses. The more detailed the graphics, the shorter the focal length of the laser engraving. The thicker the material to be laser cut, the larger the focal length. For this reason, Trotec offers eight different lenses for perfect results.

# Engraving of bulky parts

Full flexibility also means being able to work on workpieces that are larger than the machine. The Speedy 400 can do this with ease by using the pass-through. The pass-through allows you to process long and bulky materials such as doors and wall panels of various kinds. This is optional.









# Fastest laser machine on the market

The Speedy 400 is the fastest and most productive mid-sized laser engraver in the industry. The model produces high-quality results even at its maximum engraving speed of 4.32 m/s. Trotec's central OptiMotion<sup>™</sup> technology also generates maximum cutting speed at the highest cutting quality.

# More laser power - double the productivity

Productivity is not only a matter of low operating costs, but also of high laser power. More power equals more quality, efficiency and thus more profit. When buying your Speedy, it is better to choose a more powerful laser from the start.



Cutting letters in acrylic.

Laser power: 80 W Processed: 65% Time per piece: 29 s

Laser power: 120 W Processed: 100% Time per piece: 29 s

# anyle anyle anyle anyle

Trotec Speedy - 100% finished

MY/2 CMV/2

Competitor 1 - 44% finished

Competitor 2 - 15% finished



Engraving anodized aluminium typeplate.

Laser power: 30 W Processed: 48% Time per piece: 55 s Laser power: 80 W Processed: 100% Time per piece: 55 s

CM

# **Multifunctional table concept**

The multifunctional table concept enables optimal configuration for all engraving and cutting applications. Depending on the application, the ideal table can be selected and changed easily and quickly for the highest processing quality and productivity.



Aluminium cutting grid table Robust universal cutting table suitable for parts smaller than 100 mm.



Vacuum table

Fixates the material on the work surface with the help of a negative pressure, which means precise focus on the entire area and better engraving results. Perfect for thin and light materials.



**Cutting table with aluminum or acrylic slats** Mainly used for cutting thicker material (8 mm) and for parts wider than 100 mm.



Acrylic cutting grid table The acrylic cutting table prevents reflections during cutting, making it the best choice when processing acrylic, laminates and plastic films smaller than 100 mm.



#### Ferromagnetic table

Thanks to the ferromagnetic construction, you can easily fixate thin materials such as paper or foils with magnets, which ensures a completely flat working area.



Honeycomb cutting table Perfectly suited for applications that require no reflections and precise smoothness.

# **Application examples**

















# THE SP-SERIES

# Ideal for cutting materials in large formats

- Designed for fast and accurate processing of large format materials.
- Large work area which maximizes productivity.
- On the SP2000/3000, you can load material efficiently and ergonomically from all four sides.
- Cut precisely and reliably all cut components will be exactly the same.
- Simple installation by placing the laser machine wherever you want.
- With JobControl® Expert, the laser marking machines can be seamlessly connected to existing workflow.
- Can engrave and cut materials such as acrylic, plastic sheets, leather, paper, textile and wood.
- Achieves the best possible contour precision with the highest cutting productivity.





|                                | SP500  | SP2000  | SP3000   |
|--------------------------------|--|---|--|
| Working area                   | 1245 x 710 mm  | 1680 x 2510 mm  | 2210 x 3210 mm   |
| Laser power                    | 60 - 200 W   | 60 - 400 W  | 60 - 400 W   |
| Laser source                   | CO2  | CO2   | CO <sub>2</sub>  |
| Max. height of workpiece       | 112 mm   | 50 mm   | 50 mm  |
| Max. processing speed          | 2,54 m/s   | 1 m/s   | 1 m/s  |
| Overall dimensions (W x D x H) | 1940 x 1240 x 1140 mm  | 2520 x 3214 x 1230 mm   | 3078 x 3914 x 1230 mm  |
| Weight                         | 520 kg   | 1400 kg   | 1600 kg  |
| Power consumption              | 208-230V, 50/60Hz, 16A<br>380-400V 3Ph., 50/60Hz,<br>3x16A   | 400V 3 Ph., 50/60Hz, 3x16A  | 400V 3 Ph., 50/60Hz, 3x16A   |
| Software                       | JobControl® Expert<br>Ruby®  | JobControl <sup>®</sup> Expert  | JobControl <sup>®</sup> Expert   |
| Options                        | Pass-through kit, Travelling<br>exhaust, Gas Kit, Vison Print<br>& Cut, Rotary attachment,<br>Six different work tables,<br>2.5"/5.0" lens | Tandem Assist, Digital table<br>exhaust, Travelling exhaust,<br>SonarTechnology™, Three<br>different work tables,<br>2.5"/5.0" lens | Tandem Assist,Digital table<br>exhaust, Travelling exhaust,<br>SonarTechnology™, Three<br>different work tables,<br>2.5"/5.0" lens |



### **Tandem Assist**

The unique "Tandem Assist" function allows non-stop laser cutting as you can divide the work area into two zones. While the laser cutter in zone A processes the material, the finished parts can be removed in zone B and loaded with new material. This means that the machine never needs to stand still and thus increases productivity considerably.



#### Great accessibility to the work area

The work area of the SP3000 and SP2000 laser cutters is designed for large format materials and can be easily accessed from all four sides. This enables quick and ergonomic handling of the material during the working day.



#### Productivity increase up to 40%

A comparison between a medium-sized flatbed laser (work area 1000 x 700 mm) and Trotec's SP2000 shows a strong increase in production when processing 500 signs. A productivity increase of 29% respectively 40% can be achieved when working with Tandem Assist.

# Working area

| <b>SP3000</b><br>2210 x 32      | 10 mm |
|---------------------------------|-------|
| <b>SP2000</b><br>1680 x 2510 mm |       |
| <b>SP500</b><br>1245 x 710 mm   |       |



# Fast, efficient and automatic

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trotec SP3000

5"

# **Application examples**

















# THE U-SERIES

# Laser marking perfect for small components

- With the laser engravers in the U series, you can easily and quickly mark individual components such as small and medium-sized parts, even in hard-to-reach areas.
- For permanent marking mainly on metal and plastic.
- Data matrix codes, serial numbers or individual marking with the smallest fonts.
- Marking area up to 190 x 190 mm.
- High-quality lenses and an excellent laser spot guarantee a perfect application result for your marking. This means that even the smallest details can be marked precisely.
- Functions such as marking and deep engraving enable good readability even on demanding materials.
- The laser can be controlled with any Windows computer.
- The U300 is a Class 2 laser machine, so no safety precautions are required.
- U50 is an open system in laser class 4 and can be positioned as desired and therefore mark larger and bulky components.





|                                | U50                           | U300                        |
|--------------------------------|-------------------------------|-----------------------------|
| Working area                   | 120 x 120 mm - 190 x 190 mm   | 120 x 120 mm - 190 x 190 mm |
| Laser power                    | 20 W                          | 20 W                        |
| Laser source                   | Fiber                         | Fiber                       |
| Max. height of workpiece       | -                             | 22 - 171 mm                 |
| Max. processing speed          | 6 - 9,5 m/s                   | 6 - 9,5 m/s                 |
| Overall dimensions (W x D x H) | 120 x 643 x 110 mm            | 445 x 851 x 653 mm          |
| Weight                         | 8 kg                          | 56 kg                       |
| Power consumption              | 115-230 V, 500 W              | 115-230 V, 500 W            |
| Software                       | UMark, DirectMark             | UMark, DirectMark           |
| Options                        | Motorized stand, Laser safety | F160/F254 lens              |
|                                | glasses, Rotary attachment,   |                             |
|                                | F160/F254 lens,               |                             |



## Process dynamic data in an instant

The software "UMark" allows you to mark information on the object in a very short time. It allows you to generate codes, import data files or graphics and create texts. The software also has a material database so you can label with the right parameters as quickly as possible.

#### Save time with Boardermarking

The special highlight of the U series is the bordermarking function. It allows you to project the surface to be marked or even the contour of the component at any time, position it in real time and, if necessary, correct it with a click.





#### High quality optics

High-quality lenses and an excellent laser spot guarantee a perfect application result for your marking. This means that even the smallest details can be marked precisely. Functions such as marking and deep engraving enable good readability even on demanding materials.

# Independent and flexible due to Ethernet

Because of the newly integrated interface the laser can be controlled with any Windows computer. This means that you are no longer tied to the functionality of an industrial PC. Just plug in and start using the laser - you'll be surprised how much time you save!



# THE SPEEDMARKER -SERIES

# Perfect for marking within mechanical engineering, electronics and signs

- For marking everything from individual components to large batches, flat or cylindrical.
- Marking with a class 2 galvolaser system for complete traceability and brand communication.
- Enables automation processes and has endless scripting possibilities.
- 25 preset programming modules which facilitates the production process.
- The legibility of the laser marking is guaranteed by high-quality lenses and components.
- Unique possibility to mark inclined surfaces, spherical objects and cylinders thanks to the new 3D Dynamic Shifter technology (optional).



|                                | SpeedMarker 50  | SpeedMarker 300   | SpeedMarker 700   | SpeedMarker 1300  | SpeedMarker 1350  | SpeedMarker 1600  |
|--------------------------------|---|---|---|---|---|---|
| Marking area                   | 310 x 310 mm  | 190 x 190 mm  | 310 x 310 / 255 x 536 mm  | 310 x 310 mm  | 310 x 310 mm  | 310 x 310 mm  |
| Working area                   |   | 350 x 400 mm  | 580 x 495 mm  | 1000 x 450 mm   | 1000 x 500 mm   | 1300 x 450 mm   |
| Laser power fiber              | 20,30,50 W  | 20,30,50 W  | 20,30,50 W  | 20,30,50 W  | 20,30,50 W  | 20,30,50 W  |
| Laser power MOPA               | 20, 100 W   | 20, 100 W   | 20, 100 W   | 20, 100 W   | 20, 100 W   | 20, 100 W   |
| Laser power CO₂                | 45, 60, 120 W   |   | 60, 120 W   |   |   |   |
| Laser source                   | CO <sub>2</sub> / Fiber/ DS   | Fiber   | CO₂ / Fiber/ DS   | Fiber/ DS   | Fiber/ DS   | Fiber/ DS   |
| Max. height of workpiece       | 135 x 135 mm  | 61-229 mm   | 109-363 mm<br>203-551 mm  | 190-538 mm  | 397-745 mm  | 137-485 mm  |
| Max. processing speed          | 6-6.8 m/s   | 6 m/s   | 1.4 - 6 m/s   | 6 m/s   | 6 m/s   | 6 m/s   |
| Overall dimensions (W x D x H) | 274 x 988 x 172 mm<br>274 x 773 x 163.5 mm<br>572 x 851 x 653 mm  | 572 x 851 x 653 mm  | 780 x 1188 x 1802 mm<br>780 x 1144 x 1804 mm<br>780 x 981 x 1802 mm   | 1300 x 1030 x 1800 mm   | 1300 x 1327 x 2040 mm   | 1600 x 1030 x 1790 mm   |
| Weight                         | 26-62 kg  | 77 kg   | 260 - 300 kg  | 400 kg  | 580 kg  | 500 kg  |
| Power consumption              | 115 - 230V AC, 50/60Hz,<br>1/N/PE, Max 500 W  | 115 - 230V AC, 50/60Hz,<br>1/N/PE, max 500 W  | 230V AC, 50/60Hz, 1/N/PE,<br>max 3200 W<br>230V AC,16A 50/60Hz,<br>1/N/PE, max 1400 W   | 230V AC,16A 50/60Hz,<br>1/N/PE, max 1400 W  | 230V AC,16A 50/60Hz,<br>1/N/PE, max 1400 W  | 230V AC,16A 50/60Hz,<br>1/N/PE, max 1400 W  |
| Software                       | SpeedMark®, DirectMark  | SpeedMark®, DirectMark  | SpeedMark <sup>®</sup> , DirectMark   | SpeedMark <sup>®</sup> , DirectMark   | SpeedMark®, DirectMark  | SpeedMark®, DirectMark  |
| Options                        | Dynamic Shifter (3D),<br>Motorized stand, Laser<br>safety glasses, Rotary<br>attachment, Safety foot<br>switch, High-<br>performance industrial<br>PC, Six different lenses | Rotary attachment,<br>Safety foot switch,<br>Passing-through kit,<br>High-performance<br>industrial PC, Three<br>different lenses | Dynamic Shifter (3D),<br>Rotary table, Rotary<br>attachment, Safety foot<br>switch, High-performance<br>industrial PC, Four<br>different lenses | Dynamic Shifter (3D),<br>Rotary attachment,<br>Safety foot switch, High-<br>performance industrial<br>PC, Five different lenses | Dynamic Shifter (3D),<br>Rotary attachment,<br>Extendable Table,<br>Double shuttle table,<br>Safety foot switch, High-<br>performance industrial<br>PC, Five different lenses | Dynamic Shifter (3D),<br>Rotary attachment,<br>Safety foot switch, High-<br>performance industrial<br>PC, Five different lenses |



# Clear markings on individual pieces or large lots

The SpeedMarker series is also suitable for customers who want to mark a large number of identical components in a very short time. Especially in the electronics industry, Trotec's laser markers impress with their precise marking on various plastics, even in the smallest character sizes.



# Ensures complete traceability

The direct marking ensures complete traceability and identification of various components and tools, which can be important, for example in mechanical engineering. With SpeedMarker's machines, dynamic data such as serial numbers, barcodes, data matrix codes, logos, batch numbers, etc. can easily and efficiently be applied.



#### More possibilities with MOPA laser

With the MOPA laser, plastics can be marked in higher contrasts and with more detailed results. Mark (anodized) aluminum in black or reproduce colors on stainless steel. In addition, the MOPA laser is often faster than the conventional fiber laser. Adjust the pulse length variably and reduce it to a few nanoseconds compared to conventional fiber laser sources.

# Working area

|                 | <b>SpeedMarker 700</b><br>580 x 495 mm | <b>SpeedMarker 1350</b><br>1000 x 500 mm |                  |
|-----------------|--|--|------------------|
| SpeedMarker 300 |  | <b>SpeedMarker 1300</b>                  | SpeedMarker 1600 |
| 190 x 190 mm    |  | 1000 x 450 mm                            | 1300 x 450 mm    |



# **Material overview**

#### Applies to the R-Series, Q-Series, Speedy-Series and SP-Series

|   |     | Engravir | ng    |     | Cuttin | 5     |     | Markin | 3     |
|---|-----|----------|-------|-----|--------|-------|-----|--------|-------|
| Material  | CO₂ | Fiber    | Flexx | CO2 | Fiber  | Flexx | CO₂ | Fiber  | Flexx |
| Wood  | •   |          | •     | •   |        | •     |     |        |       |
| Glass   | •   |          | •     |     |        |       | •   |        | •     |
| Paper   | •   |          | •     | •   |        | •     |     |        |       |
| Cardboard                                       | •   |          | •     | •   |        | •     |     |        |       |
| Leather   | •   |          | •     | •   |        | •     |     | •      | •     |
| Synthetic leather                               | •   |          | •     | •   |        | •     |     |        |       |
| Textiles  | •   |          | •     | •   |        | •     | •   |        | •     |
| Stone   | •   |          | •     |     |        |       |     |        |       |
| Ceramics  | •   |          | •     |     |        |       |     |        |       |
| Cork  | •   |          | •     | •   |        | •     |     |        |       |
| Rubber  | •   |          | •     | •   |        | •     |     |        |       |
| Porcelain                                       | •   |          | •     |     |        |       |     |        |       |
| Mirror  | •   |          | •     |     |        |       |     |        |       |
| Food  | •   |          | •     | •   |        | •     |     |        |       |
| Metall  |     |          |       |     |        |       |     |        |       |
| Aluminium                                       |     | •        | •     |     |        |       | •   |        |       |
| Aluminium Anodized                              | •   | •        | •     |     |        |       | •   | •      | •     |
| Brass   |     | •        | •     |     |        |       |     |        |       |
| Copper  |     | •        | •     |     |        |       |     |        |       |
| Precious metals                                 |     | •        | •     |     |        |       |     | •      | •     |
| Coated metal                                    | •   |          | •     |     |        |       |     |        |       |
| Stainless steel                                 | •   | •        | •     |     |        |       |     | •      | •     |
| Steel   |     | •        | •     |     |        |       |     |        |       |
| Titanium  |     | •        | •     |     |        |       |     | •      |       |
| Plast   |     |          |       |     |        |       |     |        |       |
| Acrylic (PMMA)                                  | •   |          | •     | •   |        | •     |     |        |       |
| Acrylonitrile butadiene styrene copolymer (ABS) | •   |          | •     | •   |        | •     |     |        |       |
| Laminates                                       | •   |          | •     | •   |        | •     |     |        |       |
| Polyamide (PA)                                  | •   |          | •     | •   |        | •     |     | •      | •     |
| Polybutylene terephthalate (PBT)                | •   |          | •     | •   |        | •     |     |        |       |
| Polycarbonate (PC)                              | •   |          | •     | •   |        | •     |     | •      | •     |
| Polyethylene (PE)                               | •   |          | •     | •   |        | •     |     |        |       |
| Polyester (PES)                                 | •   |          | •     | •   |        | •     |     |        |       |
| Polyethylene terephthalate (PET)                | •   |          | •     | •   |        | •     |     |        |       |
| Polyimide (PI)                                  | •   |          | •     | •   |        | •     |     |        |       |
| Polyoximethylene (POM) e.g. Delrin              | •   |          | •     | •   |        | •     |     |        |       |
| Polypropylene (PP)                              | •   |          | •     | •   |        | •     |     |        |       |
| Polyphenylene sulfide (PPS)                     | •   |          | •     | •   |        | •     |     |        |       |
| Polystyrene (PS)                                | •   |          | •     | •   |        | •     |     |        |       |
| Polyurethane (PUR) foam                         | •   |          | •     | •   |        | •     |     |        |       |
| Foam (PVC free)                                 | •   |          |       | •   |        |       |     |        |       |
| PETG (modified PET)                             |     |          |       | •   |        |       |     |        |       |
| SAN   |     |          |       | •   |        |       |     |        |       |
|   |     |          |       |     |        |       |     |        |       |

• Standard Optional

Note that certain types of materials should not be engraved or cut with a laser due to their chemical composition. These materials contain dangerous substances that are released during processing in the form of gases and dust, which affect both the user and the operation of the machine. Some of these materials include:

- Inferior leather (Chrome VI)
- Carbon fiber
- Polyvinyl chlorides (PVC)
- PVC-based synthetic leather
- Polyvinyl butural (PVB)
- Polytetrafluoroethylenes (PTFE/Teflon)
- Beryllium
- Materials containing halogens (e.g. fluorine, chlorine, bromine, iodine and astat), epoxy or phenolic resins.

# **Material overview**

Applies to the U-Series and SpeedMarker-Series

|   |     | Marking |      |     | Engravin | g    |     | Cutting |      |
|---|-----|---------|------|-----|----------|------|-----|---------|------|
| Material  | CO2 | Fiber   | МОРА | CO2 | Fiber    | ΜΟΡΑ | CO₂ | Fiber   | ΜΟΡΑ |
| Wood  |     |         |      | •   |          |      |     |         |      |
| Glass, Mirror                                   |     |         |      | •   |          |      |     |         |      |
| Paper   |     |         |      | •   |          |      | •   |         |      |
| Leather   |     | 0       | 0    | •   |          |      | •   |         |      |
| Textiles  | 0   |         |      | •   |          |      | •   |         |      |
| Stone   |     |         |      | •   |          |      |     |         |      |
| Cork  |     |         |      | •   |          |      |     |         |      |
| Rubber  |     |         |      | •   |          |      | 0   |         |      |
| Laminates (2ply plastics)                       |     |         |      | •   |          |      |     |         |      |
| Metals  |     |         |      | •   |          |      |     |         |      |
| AlumaMark                                       |     |         |      | •   |          |      |     |         |      |
| Aluminium anodized                              |     |         |      | •   | •        | •    |     |         |      |
| Aluminium blank                                 | 0   |         | •    |     | •        | •    |     |         |      |
| Brass   |     |         |      | 0   | •        | •    |     |         |      |
| Copper  |     |         |      |     | •        | •    |     |         |      |
| Precious metals                                 |     |         | •    |     | •        | •    |     |         |      |
| Painted metal                                   |     |         |      | •   | 0        | 0    |     |         |      |
| Stainless steel                                 |     | •       | •    | 0   | •        | •    |     |         |      |
| Steel   |     |         |      |     | •        | •    |     |         |      |
| Titanium, Gold                                  |     |         | •    |     | •        | •    |     |         |      |
| Plast   |     |         |      |     |          |      |     |         |      |
| Acrylic (PMMA)                                  |     |         |      | •   |          |      |     |         |      |
| Acrylonitrile butadiene styrene copolymer (ABS) |     |         |      | •   |          |      |     |         |      |
| Laser Flex                                      |     |         |      | •   |          |      |     |         |      |
| Polyamide (PA)                                  |     | 0       | 0    | •   |          |      |     |         |      |
| Polybutylene terephthalate (PBT)                |     |         |      | •   |          |      |     |         |      |
| Polycarbonate (PC)                              |     | •       | •    | •   |          |      |     |         |      |
| Polyethylene (PE)                               |     |         |      | •   |          |      |     |         |      |
| Polyester (PES)                                 |     |         |      | •   |          |      |     |         |      |
| Polyethylene terephthalate (PET)                |     |         |      | •   |          |      |     |         |      |
| Polyimide (PI)                                  |     |         |      | •   |          |      |     |         |      |
| Polyoximethylene (POM) e.g. Delrin              |     |         |      | •   |          |      |     |         |      |
| Polypropylene (PP)                              |     |         |      | •   |          |      |     |         |      |
| Polyphenylene sulfide (PPS)                     |     |         |      | •   |          |      |     |         |      |
| Polystyrene (PS)                                |     |         |      | •   |          |      |     |         |      |
| Polyurethane (PUR) foam                         |     |         |      | •   |          |      |     |         |      |
| Foam (PVC free)                                 |     |         |      | •   |          |      |     |         |      |
| Melamine  |     |         |      | •   |          |      | 0   |         |      |
| SAN   |     |         |      |     |          |      | 0   |         |      |

• Standard Optional

Note that certain types of materials should not be engraved or cut with a laser due to their chemical composition. These materials contain dangerous substances that are released during processing in the form of gases and dust, which affect both the user and the operation of the machine. Some of these materials include:

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- Polyvinyl chlorides (PVC)
- PVC-based synthetic leather
- Polyvinyl butural (PVB)
- Polytetrafluoroethylenes (PTFE/Teflon)
- Beryllium
- Materials containing halogens (e.g. fluorine, chlorine, bromine, iodine and astat), epoxy or phenolic resins.

# **R-Series and Q-Series overview**

More information about the features and options can be found on pages 40-42.





|   | R400                                      | R500  |
|---|---|---|
| Working area (W x D)                                  | 1030 x 630 mm                             | 1300 x 900 mm                                   |
| Max. height of workpiece <sup>1</sup>                 | 200 mm                                    | 45 mm   |
| Loading area (W x D)                                  | 1130 x 690 mm                             | 1400 x 1150 mm                                  |
| Overall dimensions (W x D x H)                        | 1550 x 1080 x 1080 mmm                    | 1870 x 1700 x 1110 mm                           |
| Max. processing speed                                 | 1 m/s                                     | 1 m/s   |
| Max. Acceleration                                     | 10 m/s²                                   | 10 m/s²   |
| Laser power   | 100 W                                     | DC 100 W, CO <sub>2</sub> 120 W                 |
| Laser class   | 2   | 2   |
| Weight <sup>2</sup>                                   | 300 kg                                    | 570 kg  |
| Power consumption                                     | 100-250V, 1200 W<br>Cooling system: 900 W | 100-250 V, 1100-1500 W<br>Cooling system: 900 W |
| CE-Marked   | •   | •   |
| Software  |   |   |
| Ruby®   | •   | •   |
| Functions and options                                 |   |   |
| InPack Technology™                                    | •   | •   |
| Sonar Technology™                                     |   |   |
| OptiMotion™   | •   | •   |
| Vision Print & Cut                                    |   |   |
| LED Lighting  | •   | •   |
| Cooling system  | •   | •   |
| Rotary attachment                                     | 0   |   |
| External pump for air assist                          | •   | •   |
| External variable power meter via RJ45-<br>connection |   | 0   |
| 1 year warranty                                       | •   | •   |
| 2 years warranty*                                     |   |   |
| Multifunctional table concept                         |   |   |
| Aluminium cutting grid table                          | •   | •   |
| Aluminium slat cutting table                          | 0   | 0   |
| Lenses  |   |   |
| 2.0 inch CO <sub>2</sub>                              | •   | •   |
| 4.0 inch CO <sub>2</sub>                              | 0   | 0   |
| Exhaust system  | 0   | 0   |

Standard

Optional

**1** Based on standard lens

2 Depending on laser power





| Q400  | Q500   |   |
|---|--|---|
| 1030 x 630 mm   | 1300 x 900 mm  | Working area (W x D)                                  |
| 200 mm  | 45 mm  | Max. height of workpiece <sup>1</sup>                 |
| 1130 x 690 mm   | 1400 x 1150 mm   | Loading area (W x D)                                  |
| 1550 x 1080 x 1080 mm   | 1870 x 1655 x 1110 mm                                      | Overall dimensions (W x D x H)                        |
| 2 m/s   | 2 m/s  | Max. processing speed                                 |
| 15 m/s²   | 15 m/s²  | Max. Acceleration                                     |
| CO <sub>2</sub> DC 100 W<br>CO <sub>2</sub> RF CeramiCore® 60 W | CO₂ DC 120 W<br>CO₂ RF CeramiCore® 60 W                    | Laser power   |
| 2   | 2  | Laser class   |
| 300 kg  | 570 kg   | Weight <sup>2</sup>                                   |
| 100-250 V, 1200 W<br>Cooling system: 900 W                      | 100 - 250 V, 1100-1500 W<br>Cooling system: 900 W - 1800 W | Power consumption                                     |
| •   | •  | CE-Marked   |
|   |  | Software  |
| •   | •  | Ruby®   |
|   |  | Functions and options                                 |
| •   | •  | InPack Technology™                                    |
| 0   |  | Sonar Technology™                                     |
| •   | •  | OptiMotion™   |
| 0   | 0  | Vision Print & Cut                                    |
| •   | •  | LED Lighting  |
| •   | •  | Cooling system  |
| 0   |  | Rotary attachment                                     |
| •   | •  | External pump for air assist                          |
|   | 0  | External variable power meter via RJ45-<br>connection |
|   |  | 1year warranty  |
| •   | •  | 2 years warranty*                                     |
|   |  | Multifunctional table concept                         |
| •   | •  | Aluminium cutting grid table                          |
| 0   | 0  | Aluminium slat cutting table                          |
|   |  | Lenses  |
| •   | •  | 2.0 inch CO <sub>2</sub>                              |
| 0   | 0  | 4.0 inch CO₂  |
| 0   | 0  | Exhaust system  |

 $\ensuremath{^*}\xspace$  1 year on DC Laser source, DC Power supply and DC Water-chiller

# **Speedy-Series overview**

More information about the features and options can be found on pages 40-42.







|   | Speedy 50                      | Speedy 100                           |                               |
|---|--------------------------------|--------------------------------------|-------------------------------|
|   | CO2                            | CO2                                  | Flexx                         |
| Working area (W x D)                    | 457 x 305 mm                   | 610 x 305 mm                         | 610 x 305 mm                  |
| Max. height of workpiece <sup>1</sup>   | 140,9 mm                       | 170 mm                               | 170 mm                        |
| Loading area (W x D)                    | 457 x 305 mm                   | 690 x 346 mm                         | 690 x 346 mm                  |
| Overall dimensions (W x D x H)          | 726 x 425 x 685 mm             | 1018 x 784 x 467 mm                  | 1018 x 784 x 1004 mm          |
| Max. processing speed                   | 1.5 m/s                        | 2.8 m/s                              | 2.8 m/s                       |
| Max. Acceleration                       |                                | 40 m/s²                              | 40 m/s <sup>2</sup>           |
| Technology motion system                | Stepper motor                  | Brushless DC servo motors            | Brushless DC servo motors     |
| Laser powerCO <sub>2</sub>              | 30 W                           | 30 - 60 W                            | 60 W                          |
| Laser power fiber                       |                                |                                      | 20-30 W                       |
| Laser class                             | 2                              | 2                                    | 2                             |
| Weight <sup>2</sup>                     | 53 kg                          | 95 kg                                | 150 kg                        |
| Power consumption                       | 1 ~ AC 110-230V 50/60Hz, 800 W | AC 110 - 230V 50/60Hz, 0.83 kW - 1.3 | AC 110 - 230V 50/60Hz, 1.3 kW |
| CE-Marked                               | •                              | •                                    | •                             |
| Software                                |                                |                                      |                               |
| Ruby®                                   | •                              | •                                    | •                             |
| Functions and options                   |                                |                                      |                               |
| InPack Technology™                      |                                | •                                    | •                             |
| Harsh environment protection kit        |                                |                                      |                               |
| OptiMotion™                             |                                | •                                    | •                             |
| Sonar Technology™                       |                                |                                      |                               |
| HDLR Technology™                        |                                |                                      |                               |
| Trotecs Vision Design & Position        |                                |                                      |                               |
| Vision print & Cut                      |                                |                                      |                               |
| Temperature sensor                      |                                | 0                                    | 0                             |
| Air cooler                              |                                |                                      |                               |
| Touch panel                             |                                |                                      |                               |
| LED Lighting                            |                                | •                                    | •                             |
| Rotary attachment                       | 0                              | 0                                    | 0                             |
| Pass-through kit                        |                                |                                      |                               |
| Gas kit light                           |                                | 0                                    | 0                             |
| Air Assist incl. Integrated pump        | •                              | •                                    | •                             |
| Trolley base                            | 0                              | 0                                    | 0                             |
| 2 years warranty                        | •                              | •                                    | •                             |
| Multifunctional table concept           |                                |                                      |                               |
| Ferromagnetic table                     | •                              |                                      |                               |
| Aluminium cutting grid table            |                                |                                      |                               |
| Acrylic cutting grid table              |                                |                                      |                               |
| Aluminium slat cutting table            |                                |                                      |                               |
| Acrylic slat cutting table              |                                |                                      |                               |
| Vacuum table                            |                                |                                      |                               |
| Honeycomb cutting tabletop              | 0                              | •                                    | •                             |
| Lenses                                  | -                              |                                      | -                             |
|   | 0                              | •                                    | 0                             |
|   | •                              | 0                                    | 0                             |
| 2.0 Inch CO <sub>2</sub> clearance lins |                                |                                      |                               |
| 2.5 Inch $U_2$                          | 0                              | 0                                    | 0                             |
| 2.85 ITICH TIEXX                        |                                |                                      | •                             |
| 3.2 Inch Tiber                          |                                |                                      | 0                             |
| 4.0 mich CO <sub>2</sub>                |                                |                                      |                               |
| 4.0 men $CO_2$ clearance lins           |                                |                                      | 2                             |
| 5.0 Inch fiber                          |                                |                                      | 0                             |
| Exhaust system                          | 0                              | 0                                    | 0                             |

• Standard O Optional

2 Depending on laser power





#### Speedy 300

| CO2                              | Flexx                             |   |
|----------------------------------|-----------------------------------|---|
| 726 x 432 mm                     | 726 x 432 mm                      | Working area (W x D)                    |
| 200 mm                           | 200 mm                            | Max. height of workpiece <sup>1</sup>   |
| 795 x 440 mm                     | 795 x 440 mm                      | Loading area (W x D)                    |
| 1130 x 943 x 1054 mm             | 1130 x 943 x 1954 mm              | Overall dimensions (W x D x H)          |
| 3.55 m/s                         | 3.55 m/s                          | Max. processing speed                   |
| 50 m/s²                          | 50 m/s²                           | Max. Acceleration                       |
| Brushless DC servo motors        | Brushless DC servo motors         | Technology motion system                |
| 30 - 120 W                       | 60 - 120 W                        | Laser powerCO <sub>2</sub>              |
|                                  | 20 - 50 W                         | Laser power fiber                       |
| 2                                | 2                                 | Laser class                             |
| 150 kg                           | 215 kg                            | Weight <sup>2</sup>                     |
| AC 110 - 230V 50/60Hz. 0.94 KW - | AC 110 - 230V 50/60Hz, max 1.4 kW | Power consumption                       |
| •                                | •                                 | CE-Marked                               |
|                                  |                                   | Software                                |
| •                                | •                                 | Ruby®                                   |
|                                  |                                   | Functions and options                   |
| •                                | •                                 | InPack Technology™                      |
| •                                | •                                 | Harsh environment protection kit        |
| •                                | •                                 | OptiMotion™                             |
|                                  |                                   | Sonar Technology™                       |
|                                  |                                   | HDLR Technology™                        |
| 0                                | 0                                 | Trotecs Vision Design & Position        |
| 0                                | 0                                 | Vision print & Cut                      |
| 0                                | 0                                 | Temperature sensor                      |
| 0                                | 0                                 | Air cooler                              |
| 5                                | -                                 | Touch papel                             |
| •                                | •                                 | IED lighting                            |
| 0                                | 0                                 | Rotary attachment                       |
| -<br>-                           |                                   | Pass-through kit                        |
| 0                                | 0                                 | Gas kit light                           |
| •                                | •                                 | Air Assist incl. Integrated nump        |
| •                                | •                                 | Trolley base                            |
| •                                | •                                 | 2 years warranty                        |
|                                  |                                   | Multifunctional table concept           |
|                                  |                                   | Ferromagnetic table                     |
|                                  |                                   | Aluminium cutting grid table            |
| 0                                | 0                                 | Acrylic cutting grid table              |
|                                  |                                   | Aluminium slat cutting table            |
|                                  |                                   | Acrylic slat cutting table              |
| 0                                | 0                                 | Vacuum table                            |
| •                                | •                                 | Honeycomb cutting tabletop              |
|                                  |                                   | Lenses                                  |
| 0                                |                                   | 1.5 inch CO <sub>2</sub>                |
| •                                |                                   | 2.0 inch CO <sub>2</sub>                |
| 0                                |                                   | 2.0 inch CO <sub>2</sub> clearance lins |
| 0                                |                                   | 2.5 inch CO₂                            |
|                                  | •                                 | 2.85 inch flexx                         |
|                                  | 0                                 | 3.2 inch fiber                          |
| 0                                |                                   | 4.0 inch CO <sub>2</sub>                |
| 0                                |                                   | 4.0 inch CO <sub>2</sub> clearance lins |
|                                  | 0                                 | 5.0 inch fiber                          |
| 0                                | 0                                 | Exhaust system                          |

# **Speedy-Series overview**

More information about the features and options can be found on pages 40-42.





| CO2FIRAWorking area (W x D)B13 x 508 mmB13 x 508 mmB13 x 508 mmUoading area (W x D)B90 x 600 mmB90 x 600 mmB90 x 600 mmOverall dimension (W x D x H)B12 x 83 0 x 1055 mmB12 1x 83 0 x 1055 mmMax. processing speed3.55 m/s3.55 m/sMax. Acceleration50 m/s <sup>2</sup> 50 m/s <sup>2</sup> Technology motion systemBrushless DC serve motorsBrushless DC serve motorslaser powerCO,60 - 120 W60 - 120 Wlaser powerCo60 - 120 W20 - 50 Wlaser powerCo200 / 50/60Hz / 9.6A230 / 50/60Hz / 9.6Alaser power fiber20 - 50 W20 - 50 Wlaser consumption230 / 50/60Hz / 9.6A230 / 50/60Hz / 9.6ACE-Marked200 / 50/60Hz / 9.6A230 / 50/60Hz / 9.6ASoftware   |                                       | Speedy 360 Run on Ruby®   | Floyy                     |
|---|---------------------------------------|---------------------------|---------------------------|
| Working area (W x D)         813 x 508 mm         813 x 508 mm           Max, height of workpiece'         210 mm         890 x 600 mm         890 x 600 mm           Overall dimensions (W x D x H)         1221 x 830 x 1055 mm         1221 x 830 x 1055 mm           Max, processing speed         3.55 m/s         3.55 m/s           Max, processing speed         3.55 m/s         3.55 m/s           Max, processing speed         3.55 m/s         3.55 m/s           Laser power (Os)         60 - 120 W         60 - 120 W           Laser power (Bre         20 - 50 W         20 - 50 W           Laser power fiber         20 - 50 W         20 - 10 W           Laser power fiber         20 - 50 W         20 - 10 W           Software         20 - 10 W         20 - 10 W           Fiber Stechnology         20 - 10 W         20 - 10 W           Software         20 - 50 W         20 - 10 W           User on sumption         230V / 50/60Hz / 9.6A         20 - 10 W           Software         20 - 50 W         20 - 10 W           User on sumption         230V / 50/60Hz / 9.6A         20 - 10 W           Software         20 - 10 W         20 - 10 W           User on sumption         20 - 10 W         20 - 10 W           Softwa  |                                       | CO2                       | FIEXX                     |
| Max height of workgicse?210 mm188 mmLoading ares (W x D)890 x 600 mm890 x 600 mmOverall dimensions (W x D x H)1221 x 830 x 1055 mm1221 x 830 x 1055 mmMax, processing speed3.55 m/s3.55 m/sMax Acceleration50 m/s²50 m/s²Technology motion systemBrushless DC servo motorsBrushless DC servo motorsLaser power fiber20 - 120 W60 - 120 WLaser power fiber20 s 50 W235 kgLaser class22Power consumption230 v/ 50/60Hz / 9.6A230 v/ 50/60Hz / 9.6ASoftwareFunctions and optionsFunctions and optionsInPack Technology"Hork Technology"Hork Technology"Hork Technology"Hork Technology"Hork Technology"Hork Technology"Hork Technology"Lotteg and track motion beign & PositionSoltan Technology"Hork Technology"Lotteg and tableLotteg and tableLotteg and tableSoltan TechnologyLotteg and tableLotteg and tableLotteg and tableLotteg and tableLotteg and table <td>Working area (W x D)</td> <td>813 x 508 mm</td> <td>813 x 508 mm</td>   | Working area (W x D)                  | 813 x 508 mm              | 813 x 508 mm              |
| Loading area (W x D)         890 x 600 mm         890 x 600 mm           Overall dimensions (W x D x H)         1221 x 830 x 1055 mm         1221 x 830 x 1055 mm           Max, processing speed         3.55 m/s         3.55 m/s           Max, cocceleration         50 m/s²         50 m/s²           Etchnology motion system         Brushless DC serve motors         Brushless DC serve motors           Laser power (Oc.         60 - 120 W         60 - 120 W           Laser power (Oc.         60 - 120 W         60 - 120 W           Laser class         2         2           Weighth         250 kg         250 kg           Power consumption         230 / 50/60Hz / 9.6A         250 kg           Software         -         -           Ruby*         -         -           Functions and options         -         -           InPack Technology**         -         -           Harsh environment protection kit         -         -           OptiMotion**         -         -           Totess vision Design & Position         -         -           Totess vision Design & Position         -         -           Totess vision Design & Position         -         -           Totes vision Design & Po   | Max. height of workpiece <sup>1</sup> | 210 mm                    | 188 mm                    |
| Overall dimensions (W x D x H)         1221 x 830 x 1055 mm         1221 x 830 x 1055 mm           Max. processing speed         3.05 m/s'         3.05 m/s'           Max. Acceleration         50 m/s' <sup>2</sup> 50 m/s'           So mysice         Brushless DC servo motors         Brushless DC servo motors           Laser power fiber         20 - 50 W         60 - 120 W           Laser power fiber         20 - 50 W         20 - 50 W           Laser class         2         2           Power consumption         230V / 50/60Hz / 9.6A         230V / 50/60Hz / 9.6A           CE-Marked         -         -           Software         -         -           InPack Technology         -         -           Harsh environment protection kit         -         -           Sonar Technology         -         -           Sonar Technology         -         -           Vision print & Gut         -         -           Totecs Vision Design & Position         -         -           Vision print & Gut         -         -           Gas kitlight         -         -           Actoplet         -         -           Sonar Cenhology         -         -  | Loading area (W x D)                  | 890 x 600 mm              | 890 x 600 mm              |
| Max. processing speed3.55 m/s3.55 m/sMax. Acceleration50 m/s²50 m/s²Max. Acceleration50 m/s²50 m/s²Technology moution systemBrushless DC servo motors60 - 120 WLaser power fiber20 - 50 W20 - 50 WLaser class22Weight²250 kg285 kgPower consumption230V / 50/60Hz / 9.6A230V / 50/60Hz / 9.6ACE-Marked00SoftwareRuby²Power consumption230V / 50/60Hz / 9.6A230V / 50/60Hz / 9.6ACE-Marked0-SoftwareInPack Technology"0-InPack TechnologyInPack TechnologyInPack Technology0-InPack TechnologyInPack TechnologyInPack TechnologyInPack TechnologyInPack TechnologyInPack TechnologyInPack TechnologyInPack TechnologyInterpretature sensor0-Incuche sensor0-Air coolerIncuche sensorInduition until grid tableIncuche sensorIncuche sensorIncuche sensorIncuche sensor </td <td>Overall dimensions (W x D x H)</td> <td>1221 x 830 x 1055 mm</td> <td>1221 x 830 x 1055 mm</td>  | Overall dimensions (W x D x H)        | 1221 x 830 x 1055 mm      | 1221 x 830 x 1055 mm      |
| Max. Acceleration50 m/s²50 m/s²Technology motion systemBrushless DC servo motorsBrushless DC servo motorsLaser power fiber20 - 50 W60 - 120 WLaser power fiber22Weight³250 kg285 kgPower consumption230V / 50/60Hz / 9.6A230V / 50/60Hz / 9.6ACC-Marked0230V / 50/60Hz / 9.6ASoftware   | Max. processing speed                 | 3.55 m/s                  | 3.55 m/s                  |
| Technology motion systemBrushless DC servo motorsBrushless DC servo motorsLaser power fiber20 - 120 W60 - 120 WLaser class22Weight <sup>4</sup> 250 kg280 kgPower consumption230V / 50/60Hz / 9.6A230V / 50/60Hz / 9.6ACE-MarkedSoftwareFunctions and optionsInPack Technology"Harsh environment protection kitOptiMotion y"Sonar Technology"HDLR Technology"Functions and ptionsInPack Technology"HDLR Technology"Sonar Technology"HDLR Technology"HDLR Technology"Lingperature sensorAir coolerTotcy panelLingpingSols ki lightSols ki lightAir Asist incl. Integrated pumpTotley baseAcrylic ctableAcrylic ctableAcrylic ctableAcrylic ctableAir Asist incl. Integrated pumpTotley baseAcrylic ctableAcrylic ctableAcrylic ctable- <td>Max. Acceleration</td> <td>50 m/s<sup>2</sup></td> <td>50 m/s<sup>2</sup></td>  | Max. Acceleration                     | 50 m/s <sup>2</sup>       | 50 m/s <sup>2</sup>       |
| Laser power fiber60 - 120 W60 - 120 WLaser power fiber20 - 50 WLaser class22Weight <sup>1</sup> 250 kg285 kgPower consumption230 V / 50/60Hz / 9.6A230 V / 50/60Hz / 9.6ACE-Marked••Software••Ruby*•••Pash environment protection kit••OptiMotion*•••Sonar Technology**•••HDR Exchnology**•••HOLK Exchnology**•••Vision print & Cut•••Vision print & Cut•••Totess Vision Design & Position•••Touch panel•••LED Lighting••••Tolley base••••Trolley base••••Trolley base••••Trolley base••••Trolley base••••Arry dia cutting grid table•••Arry itable••••Arry itable••••Trolley base••••Arry itable••••Arry itable••••Arry itable••••Trolley base••••<  | Technology motion system              | Brushless DC servo motors | Brushless DC servo motors |
| Laser power fiber20 - 50 WLaser class2 Sb kgPower consumption230V / 50/60Hz / 9.6ACE-Marked-Software-Ruby®•Punctions and options-InPack Technology"*•InPack Technology"*•Harsh environment protection kit•OptiMotion**•HOLR Rechnology"*•Holk Rechnology"*•Trotes Vision Design & Position•Tordes Vision Design & Position•Touch panel•Eubly Light Action•Sonar Technology•Trotes Vision Design & Position•Outh Action•Touch panel•Eubly Light Action•Sonar Technology•Trotes Vision Design & Position•Outh Action•Touch panel•Eubly Light B•Air cooler•Pass-through kit•Gas kit light•Air Assist incl. Integrated pump•Touley base•Acrylic cutting table•Acrylic Ling rid table•Acrylic Ling rid table•Acrylic Ling rid table•Acrylic Ling rid table•Outh Co,•Acrylic Ling rid table•Acrylic Ling rid ta   | Laser powerCO <sub>2</sub>            | 60 - 120 W                | 60 - 120 W                |
| Lase class22Weight <sup>1</sup> 250 kg285 kgPower consumption230V / 50/60Hz / 9.6A285 kgSoftware••Suby••Suby••Functions and options••InPack Technology <sup>m</sup> ••Harsh environment protection kit••OptiMotion <sup>m</sup> ••Sonar Technology <sup>m</sup> ••HDLR technology <sup>m</sup> ••Vision print & Cut••Vision print & Cut••Trotecs Vision Design & Position••Vision print & Cut••Toucp anel••EDUighting••Rotary attachment••Pass-through kit••Gas kit light••Ar Assist Incl. Integrated pump••Trotley base••Vary uting grid table••Arylic stuffing table1••Auminium cuting grid table••Auminium slat cuting table1••Auring table1••Solinch (Oc, clearance lins••2.0 Inch (Oc, clearance lins••2.1 Inch (Co, clearance lins••2.2 Inch (Her••4.0 Inch (Oc, clearance lins••4.0 Inch (Oc, clearance lins••4.0 Inch (Oc, clearance lins••4.0 In   | Laser power fiber                     |                           | 20 - 50 W                 |
| Weight <sup>2</sup> 250 kg285 kgPower consumption230V / 50/60Hz / 9.6A230V / 50/60Hz / 9.6AC-Marked•230V / 50/60Hz / 9.6ASoftware••Ruby*••Functions and options••InPack Technology**••Barsh environment protection kit••OptiMotion**••Sonar Technology**••HDK Technology**••HDK Technology**••HDK Technology**••Totecs Vision Design & Position••Outoology**••Totecs Vision Design & Position••Outoology**••Sonar Technology**••Totecs Vision Design & Position••Outoology**••Sonar Technology**••Sonar Technology**••Totecs Vision Design & Position••Outoology**••Sonar Technology**••Sonar Technology**••Sonar Technology**••Totes Vision Design & Position••Sonar Technology**••Sonar Technology**••Totes Vision Position••Sonar Technology**••Sonar Technology**••Sonar Technology**••Sonar Technology**•• <t< td=""><td>Laser class</td><td>2</td><td>2</td></t<>   | Laser class                           | 2                         | 2                         |
| Power consumption230V/ 50/60Hz / 9.6A230V/ 50/60Hz / 9.6ACE-Marked••Software••Ruby*••Functions and options••InPack Technology**••Harsh environment protection kit••OptiMotion**••Sonar Technology**••HDUR Technology**••HDUR Technology**••HOLK Technology**••Tottecs Vision Design & Position••Tottecs Vision Design & Position••Totter Vision Print & Cut••Totter Vision Print & Cut••Al robio Print & Cut••Totter Vision Print & Cut••Al robio Print & Cut••Al robio Print & Cut•<   | Weight <sup>2</sup>                   | 250 kg                    | 285 kg                    |
| CE-Marked     •       Software       Ruby*       Functions and options       InPack Technology**       Harsh environment protection kit       OptiMotion**       Sonar Technology**       HDIR Technology**       HO  | Power consumption                     | 230V / 50/60Hz / 9.6A     | 230V / 50/60Hz / 9.6A     |
| Software         InPack Technology         In   | CE-Marked                             | •                         | •                         |
| Ruby"       •         Functions and options         Functions and options         InPack Technology""       •         Harsh environment protection kit       •         Opti Motion"       •         Sonar Technology""       •         HDLR Technology""       •         HDLR Technology""       •         Vision print & Cut       •         Vision print & Cut       •         Order Particle Stress       •         Outophanel       •         LED Lighting       •         Rotary attachment       •         Pass-through kit       •         Gas kit light       •         Gas kit light       •         Gas kit light       •         Air Assist incl. Integrated pump       •         Ferromagnetic table       •         Autifunctional table concept       •         Ferromagnetic table       •         Aurylic slat cutting table       •         Aurylic slat cutting table       •         Aurylic slat cutting table       •         It hon CO2       •         20 inch CO2       •         21 inch CO2       •         22 inch CO2   | Software                              |                           |                           |
| Functions and options         InPack Technology <sup>m</sup> InPack Technology <sup>m</sup> Harsh environment protection kit         OptiMotion <sup>m</sup> InPack Action (International International I   | Ruby®                                 | •                         | •                         |
| InPack Technology™ Harsh environment protection kit Harsh environment protection kit Harsh environment protection kit Sonar Technology™ HDLR Technology HDLR T | Functions and options                 |                           |                           |
| Harsh environment protection kit•Opti Motion"•Sonar Technology"•HDLR Technology"•IPUB Technology"•IPUB Technology"•Irrotes Vision Design & Position•Otision print & Cut•Imperature sensor•Outopanel•IED Lighting•Rotary attachment•Oass kit light•Oass kit light•Oass kit light•Outoring part in the concept•Irrotes warranty•Multifunctional table concept•Ferromagnetic table•Acrylic cutting grid table•Acrylic slat cutting tablepo•Is inch Cog•2.0 inch Cog•2.1 inch Cog•2.1 inch Cog•2.2 inch Cog•2.3 inch Cog•2.1 inch Cog•2.2 inch Cog•2.1 inch Cog•2.2 inch Cog•2.3 inch Cog•2.3 inch Cog•2.3 inch Cog•2.3 inch Cog•2.4 inch Cog•2.5 inch Cog•2.5 inch Cog•2.6 inch Cog•2.7 inch Cog•2.8 inch filter•3.0 inch Cog•3.1 inch Cog•3.2 inch filter•3.2 inch filter•3.2 inch filter•3.2 inch filter• <td>InPack Technology™</td> <td>•</td> <td>•</td>  | InPack Technology™                    | •                         | •                         |
| OptiMotion**••Sonar Technology**••HDLR Technology**••HDLR Technology**••Totecs Vision Design & Position••Vision print & Cut••Totecs Vision Design & Position••Air cooler••Outch panel••LED Lighting••Rotary attachment••Pass-through kit••Gas kit light••Gas kit light••Years warranty••Hultinutional table concept••Ferromagnetic table••Aurylic cutting grid table••Acrylic cutting table••Aurylic cutting table••Aurylic cutting table••Vacuum table••Lenses••2.0 inch C02••2.5 inch C02••2.6 inch Hex••3.2 inch Hex••3.2  | Harsh environment protection kit      | •                         | •                         |
| Sonar Technology**•HDLR Technology**•HDLR Technology**•Vision print & Cut•Temperature sensor•O•Air cooler•Touch panel•LED lighting•Pass-through kit•Gas kit light•Gas kit light•O•Air Assist incl. Integrated pump•Trolley base•Years warranty•Multifunctional table concept•Ferromagnetic table•Acrylic cutting grid table•Aurninum cutting grid table•Acrylic cutting table•Vacuum table•1.5 inch CO,•2.0 inch CO,•2.0 inch CO,•2.1 inch fiber•3.2 inch fiber•4.0 inch CO,•3.2 inch fiber•5.0 inch fiber•5.0 inch fiber•5.0 inch fiber•5.0 inch fiber•S.0 inch fiber<   | OptiMotion <sup>™</sup>               | •                         | •                         |
| HDLR Technology••Trotecs Vision Design & Position00Vision print & Cut00Temperature sensor00Air cooler00Touch panel••LED Lighting00Rotary attachment00Pass-through kit00Gas kit light00Trotley base••2 years warranty••Multifunctional table concept••Ferromagnetic table00Auminium sutting grid table••Acrylic cutting grid table••Acrylic cutting table00Auuminum slat cutting table••1.5 inch Co20•2.0 inch Co2, clearance lins••2.1 inch flox••3.2 inch flox••3.2 inch flox••3.2 inch flox••4.0 inch Co2••5.0 inch flox••3.2 inch flox••3.2 inch flox••5.0 inch flox••3.2 inch flox••5.0 inch floy••5.0 inch floy• </td <td>Sonar Technology™</td> <td>•</td> <td>•</td>   | Sonar Technology™                     | •                         | •                         |
| Trotecs Vision         o         o           Vision print & Cut         o         o           Temperature sensor         o         o           Air cooler         o         o           Touch panel         •         •           LED Lighting         •         •           Rotary attachment         o         o           Pass-through kit         o         o           Gas kit light         o         o           Air Assist incl. Integrated pump         •         •           Trolley base         •         •           2 years warranty         •         •           Multifunctional table concept         •         •           Ferromagnetic table         o         o         o           Aluminium cutting grid table         •         •         o           Aluminium slat cutting table         •         •         o           Vacuum table         •         •         •         o           Instructional cutting tabletop         •         •         •         o           Aluminium cutting tabletop         •         •         •         o         o           Inonium Cutting tabletop         • <td>HDLR Technology™</td> <td>•</td> <td>•</td>  | HDLR Technology™                      | •                         | •                         |
| Vision print & CutooTemperature sensorOOAir coolerOOTouch panelEELED lightingIORotary attachmentOOPass-through kitOOGas kit lightOOAir Assist incl. Integrated pumpIOTrolley baseIO2 years warrantyOOMultifunctional table conceptIFerromagnetic tableOOAlumninum cutting grid tableOOAlumninum slat cutting tableOOAcrylic slat cutting tableOOVacuum tableOO2.0 inch CO2OO2.0 inch CO2OO2.5 inch CO2OO3.2 inch fiberOO3.2 inch fiberOO3.0 inc   | Trotecs Vision Design & Position      | 0                         | 0                         |
| Temperature sensor         O         O           Air cooler         O         O           Touch panel         O         O           Touch panel         O         O           EBU lighting         O         O           Rotary attachment         O         O           Pass-through kit         O         O           Gas kit light         O         O           Air Assist incl. Integrated pump         O         O           Tolley base         O         O           2 years warranty         O         O           Mutrifunctional table concept         O         O           Auuminium cutting grid table         O         O           Aluminium slat cutting table         O         O           Auuminium slat cutting table         O         O           Arvilic slat cutting tabletop         O         O           Vacuum table         O         O           Lenses         O         O           2.0 inch CO2         O         O <t< td=""><td>Vision print &amp; Cut</td><td>0</td><td>0</td></t<>   | Vision print & Cut                    | 0                         | 0                         |
| Air coolerooTouch panel••LED Lighting••Rotary attachmentooPass-through kitooGas kit lightooGas kit lightooAir Assist incl. Integrated pump••Trolley base••2 years warranty••Multifunctional table concept••Ferromagnetic tableooAluminium cutting grid table••Acrylic cutting tableooAurylic stat cutting tableooVacuum tableooLenses••1.5 inch C02oo2.0 inch C02••2.10 inch C02o•2.10 inch C02o•3.11 fiber••4.0 inch C02o•5.0 inch fiber••5.0 inch fiber••5.0 inch fiber••5.0 inch fiber   | Temperature sensor                    | 0                         | 0                         |
| Touch panel••LED Lighting••Rotary attachment••Pass-through kit••Gas kit light••O••Air Assist incl. Integrated pump••Trolley base••2 years warranty••Multifunctional table concept•Ferromagnetic table••Acrylic cutting grid table••Acrylic cutting grid table••Acrylic slat cutting table••Vacuum table••Vacuum table••Vacuum table••1.5 inch CO2••2.0 inch CO2••2.5 inch GO2••2.5 inch GO2••3.2 inch fiber••4.0 inch CO2••5.0 inch fiber••5.0 inch fiber••5.0 inch fiber••5.0 inch fiber••5.0 inch fiber•• <td>Air cooler</td> <td>0</td> <td>0</td>   | Air cooler                            | 0                         | 0                         |
| LED Lighting•••Rotary attachment00Pass-through kit00Gas kit light00Air Assist incl. Integrated pump••Trolley base••2 years warranty••Multifunctional table concept••Ferromagnetic table00Aluminium cutting grid table••Acrylic cutting grid table00Aluminium slat cutting table00Acrylic slat cutting table00Vacuum table001.5 inch CO2002.0 inch CO2002.5 inch CO2002.5 inch flexx003.2 inch flexx004.0 inch CO2004.0 inch CO2005.0 inch fiber005.0 inch fiber </td <td>Touch panel</td> <td>•</td> <td>•</td>   | Touch panel                           | •                         | •                         |
| Rotary attachmentooPass-through kitooGas kit lightooAir Assist incl. Integrated pump•oTrolley base••2 years warranty••Multifunctional table concept•oFerromagnetic tableooAluminium cutting grid table•oAluminium slat cutting tableooAluminium slat cutting tableooAcrylic slat cutting tableooVacuum tableooLenses••1.5 inch CO2••2.0 inch CO2••2.5 inch CO2••2.5 inch flexx••3.2 inch fiber••4.0 inch CO2••4.0 inch CO2••5.0 inch fiber••5.0 inch fiber•<  | LED Lighting                          | •                         | •                         |
| Pass-through kitoGas kit lightooAir Assist incl. Integrated pump••Trolley base••2 years warranty••Multifunctional table concept••Ferromagnetic tableooAluminium cutting grid table••Acrylic cutting grid table••Acrylic cutting tableooAcrylic slat cutting tableooVacuum tableooHoneycomb cutting tabletopoo2.0 inch CO2••2.1 cinch fibero•4.0 inch CO2o•4.0 inch CO2o•4.0 inch CO2o•5.0 inch fibero•5.0 inch fibero <td>Rotary attachment</td> <td>0</td> <td>0</td>  | Rotary attachment                     | 0                         | 0                         |
| Gas kit lightOOAir Assist incl. Integrated pump••Trolley base••2 years warranty••Mutifunctional table concept••Ferromagnetic tableOOAluminium cutting grid table••Acrylic cutting grid table••Aluminium slat cutting table••Acrylic slat cutting table••Vacuum table••1.5 inch CO2••2.0 inch CO2••2.5 inch flexx••3.2 inch fiber••4.0 inch CO2••4.0 inch CO2••5.0 inch fiber••5.0 inch fiber• <td>Pass-through kit</td> <td></td> <td></td>   | Pass-through kit                      |                           |                           |
| Air Assist incl. Integrated pump••Trolley base••2 years warranty••Multifunctional table concept••Ferromagnetic table••Aluminium cutting grid table••Aluminium slat cutting grid table••Aluminium slat cutting table••Acrylic slat cutting table••Vacuum table••Vacuum table••1.5 inch CO2••2.0 inch CO2••2.5 inch flex••3.2 inch fiber••4.0 inch CO2••4.0 inch CO2••5.0 inch fiber••5.0 inch fiber <td< td=""><td>Gas kit light</td><td>0</td><td>0</td></td<>  | Gas kit light                         | 0                         | 0                         |
| Trolley base••2 years warranty••Multifunctional table concept••Ferromagnetic table00Aluminium cutting grid table••Acrylic cutting grid table00Aluminium slat cutting table00Acrylic slat cutting table00Acrylic slat cutting table00Vacuum table00Honeycomb cutting tabletop00000Lenses2.0 inch CO20-2.0 inch CO20-2.5 inch flexx0-3.2 inch fiber0-4.0 inch CO20-4.0 inch CO20-4.0 inch CO20-5.0 inch fiber0-1.5 inch fiber0- <td>Air Assist incl. Integrated pump</td> <td>•</td> <td>•</td>   | Air Assist incl. Integrated pump      | •                         | •                         |
| 2 years warranty••Multifunctional table conceptFerromagnetic table0Aluminium cutting grid table•Acrylic cutting grid table0Aluminium slat cutting table0Acrylic slat cutting table0Acrylic slat cutting table0Vacuum table0Vacuum table000Honeycomb cutting tabletop000Lenses02.0 inch CO202.5 inch CO202.5 inch flex03.2 inch fiber04.0 inch CO204.0 inch CO20001.5 inch fiber01.5 inch fiber01.6 inch fiber01.7 inch fiber01.9 inch fiber01.9 inch fiber01.0 inch CO201.0 inch CO201.0 inch CO201.0 inch fiber01.0 inch fiber01.0 inch fiber01.0 inch fiber01.1 inch fiber0  | Trolley base                          | •                         | •                         |
| Multifunctional table conceptFerromagnetic table0Aluminium cutting grid table•Acrylic cutting grid table0Aluminium slat cutting table0Acrylic slat cutting table0Acrylic slat cutting table0Vacuum table0Vacuum table0Honeycomb cutting tabletop000Lenses1.5 inch CO22.0 inch CO202.5 inch flex03.2 inch fiber04.0 inch CO204.0 inch CO205.0 inch fiber05.0 inch fiber0001.5 inch CO201.5 inch fiber01.5 in  | 2 years warranty                      | •                         | •                         |
| Ferromagnetic tableooAluminium cutting grid table••Acrylic cutting grid tableooAluminium slat cutting tableooAcrylic slat cutting tableooVacuum tableooHoneycomb cutting tabletopooVacuum tableooHoneycomb cutting tabletopoo2.0 inch CO2oo2.0 inch CO2oo2.5 inch flexoo3.2 inch fiberoo4.0 inch CO2oo5.0 inch fiberoo5.0 inch fiberoo1.5 inch CO2oo2.6 inch fiberoo1.7 inch fiberoo1.8 inch fiberoo1.9 inch fiberoo <td>Multifunctional table concept</td> <td></td> <td></td>   | Multifunctional table concept         |                           |                           |
| Aluminium cutting grid table••Acrylic cutting grid tableooAluminium slat cutting tableooAcrylic slat cutting tableooVacuum tableooHoneycomb cutting tabletopooLenses-o2.0 inch CO2oo2.5 inch CO2oo2.5 inch CO2oo2.5 inch flexxoo3.2 inch fiberoo4.0 inch CO2oo4.0 inch CO2oo5.0 inch fiberoo1.5 inch CO2oo2.5 inch flexxoo3.2 inch fiberoo4.0 inch CO2oo4.0 inch CO2oo5.0 inch fiberoo5.0 inch fiberoo1.5 inch fiberoo1.5 inch CO2oo1.5 inch CO2oo1.5 inch CO2oo1.5 inch CO2oo1.5 inch fiberoo1.5 inch fibero   | Ferromagnetic table                   | 0                         | 0                         |
| Acrylic cutting grid tableooAluminium slat cutting tableooAcrylic slat cutting tableooVacuum tableooHoneycomb cutting tabletopooLenses1.5 inch CO2oo2.0 inch CO2o-2.5 inch CO2o-2.5 inch CO2o-2.85 inch flexxo-3.2 inch fibero-4.0 inch CO2 clearance linso-4.0 inch CO2o-5.0 inch fibero-5.0 inch fiber5.0 inch f  | Aluminium cutting grid table          | •                         | •                         |
| Aluminium slat cutting tableooAcrylic slat cutting tableooVacuum tableooHoneycomb cutting tabletopoo <b>Lenses</b> 1.5 inch CO2o-2.0 inch CO2o-2.0 inch CO2 clearance linso-2.5 inch flexxo-3.2 inch flexxo-3.2 inch flbero-4.0 inch CO2 clearance linso-5.0 inch CO2 clearance linso-1.5 inch flexxo-3.2 inch flbero-4.0 inch CO2 clearance linso-5.0 inch fibero-5.0 inch fibero-5.0 inch fibero-5.0 inch fibero-5.0 inch fibero-5.0 inch fibero-5.0 inch fiber5.0 inch fiber- <td>Acrylic cutting grid table</td> <td>0</td> <td>0</td>  | Acrylic cutting grid table            | 0                         | 0                         |
| Acrylic slat cutting tableooVacuum tableooHoneycomb cutting tabletopooLenses1.5 inch CO2o-2.0 inch CO2 clearance linso-2.5 inch CO2o-2.85 inch flexxo-3.2 inch fibero-4.0 inch CO2 clearance linso-5.0 inch CO2o-1.5 inch CO2o-2.5 inch flexxo-3.2 inch fibero-4.0 inch CO2 clearance linso-5.0 inch fibero-5.0 inch fibero-5.0 inch fiber5.0 inch  | Aluminium slat cutting table          | 0                         | 0                         |
| Vacuum tableooHoneycomb cutting tabletopooLenses1.5 inch CO2o-2.0 inch CO2o-2.0 inch CO2 clearance linso-2.5 inch CO2o-2.85 inch flexxo-3.2 inch fibero-4.0 inch CO2 clearance linso-5.0 inch fibero-5.0 inch fiber5.0 inch fiber- <t< td=""><td>Acrylic slat cutting table</td><td>0</td><td>0</td></t<>   | Acrylic slat cutting table            | 0                         | 0                         |
| Honeycomb cutting tabletopoLenses1.5 inch CO2o2.0 inch CO2o2.0 inch CO2 clearance linso0.1 inch CO2o2.5 inch CO2o2.5 inch flexxo3.2 inch fibero4.0 inch CO2o4.0 inch CO2o5.0 inch fibero5.0 inch fibero5.0 inch fibero5.0 inch fibero   | Vacuum table                          | 0                         | 0                         |
| Lenses  | Honeycomb cutting tabletop            | 0                         | 0                         |
| 1.5 inch CO2o2.0 inch CO2-2.0 inch CO2 clearance linso2.5 inch CO2o2.85 inch flexx-3.2 inch fibero4.0 inch CO2 clearance linso5.0 inch fibero5.0 inch fibero<  | Lenses                                |                           |                           |
| $2.0 \operatorname{inch} \operatorname{CO}_2$ • $2.0 \operatorname{inch} \operatorname{CO}_2$ clearance linso $2.5 \operatorname{inch} \operatorname{CO}_2$ o $2.85 \operatorname{inch} \operatorname{flexx}$ • $3.2 \operatorname{inch} \operatorname{fiber}$ • $4.0 \operatorname{inch} \operatorname{CO}_2$ clearance linso $5.0 \operatorname{inch} \operatorname{fiber}$ o $5.0 \operatorname{inch} \operatorname{fiber}$ o  | 1.5 inch CO₂                          | 0                         |                           |
| 2.0 inch CO2 clearance linso2.5 inch CO2oo2.85 inch flexxoo3.2 inch fiberoo4.0 inch CO2oo4.0 inch CO2 clearance linsoo5.0 inch fiberoo  | 2.0 inch CO <sub>2</sub>              | •                         |                           |
| 2.5 inch CO2     0       2.85 inch flexx     •       3.2 inch fiber     •       4.0 inch CO2     0       4.0 inch CO2 clearance lins     •       5.0 inch fiber     •   | 2.0 inch CO₂ clearance lins           | 0                         |                           |
| 2.85 inch flexx     •       3.2 inch fiber     •       4.0 inch CO2     •       4.0 inch CO2 clearance lins     •       5.0 inch fiber     •  | 2.5 inch CO₂                          | 0                         |                           |
| 3.2 inch fiber     o       4.0 inch CO₂     o       4.0 inch CO₂ clearance lins     o       5.0 inch fiber     o  | 2.85 inch flexx                       |                           | •                         |
| 4.0 inch CO2o4.0 inch CO2 clearance linso5.0 inch fibero  | 3.2 inch fiber                        |                           | 0                         |
| 4.0 inch CO₂ clearance lins o<br>5.0 inch fiber o   | 4.0 inch CO <sub>2</sub>              | 0                         |                           |
| 5.0 inch fiber o  | 4.0 inch CO₂ clearance lins           | 0                         |                           |
|   | 5.0 inch fiber                        |                           | 0                         |
| Exhaust system o o  | Exhaust system                        | 0                         | 0                         |

• Standard O Optional

1 Based on standard lens

2 Depending on laser power





# Speedy 400 Run on Ruby<sup>®</sup>

#### Flexx

| 1016 x 610 mm             | 1016 x 610 mm                         | Working area (W x D)                    |
|---------------------------|---------------------------------------|---|
| 305 mm                    | 283 mm                                | Max. height of workpiece <sup>1</sup>   |
| 1096 x 698 mm             | 1096 x 698 mm                         | Loading area (W x D)                    |
| 1428 x 952 x 1050 mm      | 1428 x 952 x 1050 mm                  | Overall dimensions (W x D x H)          |
| 4.32 m/s                  | 4.32 m/s                              | Max. processing speed                   |
| 50 m/s <sup>2</sup>       | 50 m/s <sup>2</sup>                   | Max. Acceleration                       |
| Brushless DC servo motors | Brushless DC servo motors             | Technology motion system                |
| 60 - 120 W                | 60 - 120 W                            | Laser powerCO <sub>2</sub>              |
|                           | 20 - 50 W                             | Laser power fiber                       |
| 2                         | 2                                     | Laser class                             |
| -<br>310 kg               | -<br>350 kg                           | Weight <sup>2</sup>                     |
| 230V / 50/60Hz / 10 2A    | 230V / 50/60Hz / 10 2A                | Power consumption                       |
| •                         | •                                     | CE-Marked                               |
| -                         | -                                     | Software                                |
|                           |                                       | Buby®                                   |
| •                         | •                                     | Functions and ontions                   |
| •                         |                                       | InPack Technology                       |
| •                         |                                       | Harsh onvironment protection kit        |
| •                         |                                       |   |
|                           |                                       |   |
| •                         | •                                     |   |
| •                         | •                                     | HDLR Technology                         |
| 0                         | 0                                     | Irotecs Vision Design & Position        |
| 0                         | 0                                     | Vision print & Cut                      |
| 0                         | 0                                     | Temperature sensor                      |
| 0                         | 0                                     | Air cooler                              |
| •                         | •                                     | Touch panel                             |
| •                         | •                                     | LED Lighting                            |
| 0                         | 0                                     | Rotary attachment                       |
| 0                         | 0                                     | Pass-through kit                        |
| 0                         | 0                                     | Gas kit light                           |
| •                         | •                                     | Air Assist incl. Integrated pump        |
| •                         | •                                     | Trolley base                            |
| •                         | •                                     | 2 years warranty                        |
|                           |                                       | Multifunctional table concept           |
| 0                         | 0                                     | Ferromagnetic table                     |
| •                         | •                                     | Aluminium cutting grid table            |
| 0                         | 0                                     | Acrylic cutting grid table              |
| 0                         | 0                                     | Aluminium slat cutting table            |
| 0                         | 0                                     | Acrylic slat cutting table              |
| 0                         | 0                                     | Vacuum table                            |
| 0                         | 0                                     | Honeycomb cutting tabletop              |
|                           |                                       | Lenses                                  |
| 0                         |                                       | 1.5 inch CO₂                            |
| •                         |                                       | 2.0 inch CO <sub>2</sub>                |
| 0                         |                                       | 2.0 inch CO₂ clearance lins             |
| 0                         |                                       | 2.5 inch CO <sub>2</sub>                |
|                           | •                                     | 2.85 inch flexx                         |
|                           | 0                                     | 3.2 inch fiber                          |
| 0                         |                                       | 4.0 inch CO <sub>2</sub>                |
| 0                         |                                       | 4.0 inch CO <sub>2</sub> clearance lins |
|                           | 0                                     | 5.0 inch fiber                          |
| 0                         | 0                                     | Exhaust system                          |
|                           | · · · · · · · · · · · · · · · · · · · |   |

# **SP-Series**

# More information about the features and options can be found on pages 40-42.





|                                       | SP500  | SP2000                      |
|---------------------------------------|--|-----------------------------|
| Working area (W x D)                  | 1245 x 710 mm  | 1680 x 2510 mm              |
| Max. height of workpiece <sup>1</sup> | 112 mm   | 50 mm                       |
| Loading area (W x D)                  | 1420 x 820 mm  | 1950 x ∞ mm                 |
| Overall dimensions (W x D x H)        | 1940 x 1240 x 1140 mm  | 2520 x 3214 x 1230 mm       |
| Max. processing speed                 | 2.54 m/s   | 1 m/s                       |
| Max. Acceleration                     | 19 m/s²  | 10 m/s <sup>2</sup>         |
| Technology motion system              | Brushless DC servo motors  | Brushless DC servo motors   |
| Laser power CO <sub>2</sub>           | 60 - 200 W   | 60 - 400 W                  |
| Laser class                           | 2  | 2                           |
| Weight <sup>2</sup>                   | 520 kg   | 1400 kg                     |
| Power consumption                     | 208-230V, 50/60Hz, 16A<br>380-400V 3Ph., 50/60Hz, 3x16A<br>380-400V 3Ph., 50/60Hz, 3x20A | 400V 3Ph., 50/60Hz, 3 x 16A |
| CE-Marked                             | •  | •                           |
| Software                              |  |                             |
| Ruby®                                 | •  |                             |
| JobControl <sup>®</sup>               | •  | •                           |
| JobControl <sup>®</sup> Cut           | 0  | 0                           |
| Functions and options                 |  |                             |
| InPack Technology™                    | •  | •                           |
| Harsh environment protection kit      | •  | •                           |
| OptiMotion™                           |  | •                           |
| Sonar Technology™                     |  | 0                           |
| Vision Print & Cut                    | 0  | 0                           |
| Four sides access                     |  | •                           |
| Tandem Assist                         |  | 0                           |
| Digital table exhaust                 |  | 0                           |
| Pass-through kit                      | 0  |                             |
| Air-flushed optics                    | •  | •                           |
| Travelling exhaust                    | 0  | 0                           |
| Air Assist incl. Integrated pump      | •  |                             |
| Gas kit                               | 0  | •                           |
| Rotary attachment                     | 0  |                             |
| 2 years warranty                      | •  | •                           |
| Multifunctional table concept         |  |                             |
| Aluminium cutting grid table          | 0  | 0                           |
| Acrylic cutting grid table            | 0  |                             |
| Aluminium slat cutting table          | 0  | 0                           |
| Acrylic slat cutting table            | 0  | 0                           |
| Vacuum table                          | 0  |                             |
| Honeycomb cutting tabletop            | 0  |                             |
| Lenses                                |  |                             |
| 2.0 in CO <sub>2</sub>                | •  |                             |
| 2.5 in CO <sub>2</sub>                | 0  | 0                           |
| 2.5 in CO₂ clearance lins             | 0  |                             |
| 5.0 in CO₂                            | 0  | 0                           |
| 7.5 in CO₂                            |  |                             |
| Exhaust system                        | 0  | 0                           |

• Standard

2 Depending on laser power



# SP3000

| 2210 x 3210 mm              | Working area (W x D)                  |
|-----------------------------|---------------------------------------|
| 50 mm                       | Max. height of workpiece <sup>1</sup> |
| 2500 x ∞ mm                 | Loading area (W x D)                  |
| 3078 x 3914 x 1230 mm       | Overall dimensions (W x D x H)        |
| 1 m/s                       | Max. processing speed                 |
| 10 m/s²                     | Max. Acceleration                     |
| Brushless DC servo motors   | Technology motion system              |
| 60 - 400 W                  | Laser power CO₂                       |
| 2 <sup>3</sup>              | Laser class                           |
| 1600 kg                     | Weight <sup>2</sup>                   |
| 400V 3Ph., 50/60Hz, 3 x 16A | Power consumption                     |

| • | CE-Marked                             |  |
|---|---------------------------------------|--|
|   | Software                              |  |
|   | Ruby®                                 |  |
| • | JobControl <sup>®</sup>               |  |
| 0 | JobControl <sup>®</sup> Cut           |  |
|   | Functions and options                 |  |
| • | InPack Technology™                    |  |
| • | Harsh environment protection kit      |  |
| • | OptiMotion™                           |  |
| 0 | Sonar Technology™                     |  |
| 0 | Vision Print & Cut                    |  |
| • | Four sides access                     |  |
| 0 | Tandem Assist                         |  |
| 0 | Digital table exhaust                 |  |
|   | Pass-through kit                      |  |
| • | Air-flushed optics                    |  |
| 0 | Travelling exhaust                    |  |
|   | Air Assist incl. Integrated pump      |  |
| • | Gas kit                               |  |
|   | Rotary attachment                     |  |
| • | 2 years warranty                      |  |
|   | Multifunctional table concept         |  |
| 0 | Aluminium cutting grid table          |  |
|   | Acrylic cutting grid table            |  |
| 0 | Aluminium slat cutting table          |  |
| 0 | Acrylic slat cutting table            |  |
|   | Vacuum table                          |  |
|   | Honeycomb cutting tabletop            |  |
|   | Lenses                                |  |
|   | 2.0 in CO <sub>2</sub>                |  |
| 0 | 2.5 in CO <sub>2</sub>                |  |
|   | 4.0 in CO <sub>2</sub> clearance lins |  |
| 0 | 5.0 in CO <sub>2</sub>                |  |
|   | 7.5 in CO₂                            |  |
| 0 | Fxhaust system                        |  |

# **U-Series and SpeedMarker-Series overview**

More information about the features and options can be found on pages 40-42.





|   | U50                         | U300                        |
|---|-----------------------------|-----------------------------|
| Marking area (W x D)                        | 120 x 120 mm - 190 x 190 mm | 120 x 120 mm - 190 x 190 mm |
| Working area (W x D)                        | -                           | 350 x 400 mm                |
| Max. height of workpiece <sup>1</sup>       | -                           | 22-171 mm                   |
| Overall dimensions (W x D x H)              | 120 x 643 x 110 mm          | 445 x 851 x 653 mm          |
| Max. processing speed                       | 6 -9.5 m/s                  | 6 -9.5 m/s                  |
| Laser class                                 | 4                           | 2                           |
| Weight <sup>2</sup>                         | 8 kg                        | 56 kg                       |
| Weight                                      | 20 kg                       | 20 kg                       |
| Power consumption                           | 115-230 V, 500 W            | 115-230 V, 500 W            |
| CE-Marked                                   | •                           | •                           |
| Laser power                                 |                             |                             |
| Laser power fiber                           | 20 W                        | 20 W                        |
| Laser power MOPA                            |                             |                             |
| Laser power CO <sub>2</sub>                 |                             |                             |
| Z-axis                                      |                             |                             |
| X-axis                                      |                             |                             |
| Y-axis                                      |                             |                             |
| Software                                    |                             |                             |
| Umark Software DirectMark                   | •                           | •                           |
| SpeedMark <sup>®</sup> , DirectMark         |                             |                             |
| SpeedMark <sup>®</sup> Vision - SmartAdjust |                             |                             |
| Functions and options                       |                             |                             |
| Motorized stand                             | 0                           |                             |
| Laser safety glasses                        | 0                           |                             |
| Dynamic Shifter (3D)                        |                             |                             |
| Rotary attachment                           | 0                           |                             |
| Automatic lift door                         |                             |                             |
| Manual lift door                            |                             | •                           |
| Extendable table <sup>3</sup>               |                             |                             |
| Double shuttle table <sup>3</sup>           |                             |                             |
| Safety foot switch                          |                             |                             |
| High-performance industrial PC              |                             |                             |
| Pass-through <sup>2</sup>                   |                             |                             |
| 1 year warranty                             | •                           | •                           |
| 2 years warranty                            |                             |                             |
| External interfaces                         |                             |                             |
| Laser interlock, Marking start (24DC)       | •                           | •                           |
| Marking stop (24 VDC), E-stop,              |                             |                             |
| Error reset, Laser busy                     |                             |                             |
| ICP/IP/RS232/                               |                             |                             |
| Frogrammable digital I/O $(4/4)$            |                             |                             |
| Lenses                                      | E=160 E=254                 | E=160 E=254                 |
| Lenges                                      |                             |                             |
| Exhaust system                              | 0                           | 0                           |

Standard

Optional





| SpeedMarker 50                               | SpeedMarker 50                               |   |
|--|--|---|
| (CO <sub>2</sub> )                           | (Fiber)                                      |   |
| 310 x 310 mm                                 | 310 x 310 mm                                 | Marking area (W x D)                        |
|  |  | Working area (W x D)                        |
| 135 x 135 mm                                 | 135 x 135 mm                                 | Max. height of workpiece <sup>1</sup>       |
| 274 x 988 172 mm                             | 572 x 851 x 653 mm                           | Overall dimensions (W x D x H)              |
| 6 m/s  | 6.8 m/s                                      | Max. processing speed                       |
| 4  | 4  | Laser class                                 |
| 33 kg  | 62 kg  | Weight <sup>2</sup>                         |
|  |  | Weight                                      |
| 115 - 230V AC, 50/60Hz, 1/N/PE, Max<br>500 W | 115 - 230V AC, 50/60Hz, 1/N/PE, Max<br>500 W | Power consumption                           |
| •  | •  | CE-Marked                                   |
|  |  | Laser power                                 |
|  | 20, 30 , 50 W                                | Laser power fiber                           |
|  | 20, 100 W                                    | Laser power MOPA                            |
| 45, 65, 120 W                                |  | Laser power CO <sub>2</sub>                 |
|  | 0  | Z-axis                                      |
|  |  | X-axis                                      |
|  |  | Y-axis                                      |
|  |  | Software                                    |
|  |  | Umark Software DirectMark                   |
| •  | •  | SpeedMark <sup>®</sup> , DirectMark         |
|  | 0  | SpeedMark <sup>®</sup> Vision - SmartAdjust |
|  |  | Functions and options                       |
| 0  | 0  | Motorized stand                             |
| 0  | 0  | Laser safety glasses                        |
|  | 0  | Dynamic Shifter (3D)                        |
| 0  | 0  | Rotary attachment                           |
|  |  | Automatic lift door                         |
|  |  | Manual lift door                            |
|  |  | Extendable table <sup>3</sup>               |
|  |  | Double shuttle table <sup>3</sup>           |
| 0  | 0  | Safety foot switch                          |
| 0  | 0  | High-performance industrial PC              |
|  |  | Pass-through <sup>2</sup>                   |
| 0  | 0  | 1 year warranty                             |
| •  | •  | 2 years warranty                            |
|  |  | External interfaces                         |
| •  | •  | Laser interlock, Marking start (24DC)       |
| •  | •  | Marking stop (24 VDC), E-stop,              |
|  |  | Error reset, Laser busy                     |
| •  | •  | ICP/IP/RS232/                               |
| 0  | 0  | External programmable digital $1/O(4/4)$    |
| -<br>E=100 E=150 E=200                       | E=100 E=160 <sup>4</sup>                     | Lenses                                      |
| F=300, F=400, F=720                          | F=254, F=330, F=420                          | Lenges                                      |
| 0  | 0  | Exhaust system                              |

# **Speedmarker-Series overview**

More information about the features and options can be found on pages 40-42.





|   |  | SpeedMarker 700                            |
|---|--|--|
|   | SpeedMarker 300                              | (Fiber)                                    |
| Marking area (W x D)                        | 190 x 190 mm                                 | 310 x 310 mm                               |
| Working area (W x D)                        | 350 x 400 mm                                 | 580 x 495 mm                               |
| Max. height of workpiece <sup>1</sup>       | 22-171 mm                                    | 319 - 469 mm                               |
| Overall dimensions (W x D x H)              | 572 x 851 x 653 mm                           | 780 x 981 x 1802 mm                        |
| Max. processing speed                       | 6 m/s  | 6 m/s                                      |
| Laser class                                 | 2  | 2  |
| Weight <sup>2</sup>                         | 77 kg  | 260 kg                                     |
| Power consumption                           | 115 - 230V AC, 50/60Hz, 1/N/PE, max<br>500 W | 230V AC,16A 50/60Hz, 1/N/PE, max 1400<br>W |
| CE-Marked                                   | •  | •  |
| Laser power                                 |  |  |
| Laser power fiber                           | 20, 30, 50 W                                 | 20, 30, 50 W                               |
| Laser power MOPA                            | 20, 100 W                                    | 20, 100 W                                  |
| Laser power CO <sub>2</sub>                 |  |  |
| Z-axis                                      | •  | •  |
| X-axis                                      |  |  |
| Y-axis                                      |  |  |
| Software                                    |  |  |
| SpeedMark <sup>®</sup> , DirectMark         | •  | •  |
| SpeedMark <sup>®</sup> Vision - SmartAdjust | 0  | 0  |
| Functions and options                       |  |  |
| Dynamic Shifter (3D)                        | 0  | 0  |
| Rotary attachment                           | 0  | 0  |
| Automatic lift door                         |  | •  |
| Manual lift door                            | •  |  |
| Extendable table <sup>3</sup>               |  |  |
| Double shuttle table <sup>3</sup>           |  |  |
| Safety foot switch                          | 0  | 0  |
| High-performance industrial PC              | 0  | 0  |
| Pass-through <sup>2</sup>                   | 0  |  |
| 2 years warranty                            | •  | •  |
| External interfaces                         |  |  |
| Laser interlock, Marking start (24DC),      | •  | •  |
| Marking stop (24DC), E-stop,                |  |  |
| Error reset, Laser busy                     | •  | •  |
| Programmable digital I/O (4/4)              | •  | •  |
| External programmable digital I/O (16/16)   | 0  | 0  |
| Lenses                                      | F=100, F=160 <sup>4</sup> ,                  | F=100, F=160 <sup>4</sup> ,                |
| Exhaust system                              | r=204,<br>0                                  | r=204, r=330, r=420<br>0                   |
|   | -  | -  |

• Standard Options

2 Laser class 4 with pass-through





| SpeedMarker 700RT                                  | SpeedMarker 700                      |  |
|--|--------------------------------------|--|
| (Roteringsbord)                                    | (CO <sub>2</sub> )                   |  |
| 310 x 310 mm                                       | 255 x 536 mm                         | Marking area (W x D)   |
| 310 x 310 mm                                       | 375 x 400 mm                         | Working area (W x D)   |
| 195 mm   | 363 mm                               | Max. height of workpiece'  |
| 780 x 1144 x 1804 mm                               | 780 x 1188 x 1802 mm                 | Overall dimensions (W x D x H)                                       |
| 6 m/s  | 1.4 m/s                              | Max. processing speed  |
| 2  | 2                                    | Laser class  |
| 300 kg   | 260 kg                               | Weight <sup>2</sup>  |
| 230V AC,16A 50/60Hz, 1/N/PE, max 1400<br>W         | 230V AC, 50/60Hz, 1/N/PE, max 3200 W | Power consumption  |
| •  | •                                    | CE-Marked  |
|  |                                      | Laser power  |
| 20, 30, 50 W                                       |                                      | Laser power fiber  |
| 20 W   |                                      | Laser power MOPA   |
|  | 60, 120 W                            | Laser power CO <sub>2</sub>  |
| •  | •                                    | Z-axis   |
| 0  |                                      | X-axis   |
| 0  | 0                                    | Y-axis   |
|  |                                      | Software   |
| •  | •                                    | SpeedMark <sup>®</sup> , DirectMark                                  |
| 0  |                                      | SpeedMark <sup>®</sup> Vision - SmartAdjust                          |
|  |                                      | Functions and options  |
|  |                                      | Dynamic Shifter (3D)   |
|  | 0                                    | Rotary attachment  |
| •  | •                                    | Automatic lift door  |
|  |                                      | Manual lift door   |
|  |                                      | Extendable table <sup>3</sup>  |
|  |                                      | Double shuttle table <sup>3</sup>                                    |
| 0  | 0                                    | Safety foot switch   |
| 0  | 0                                    | High-performance industrial PC                                       |
|  |                                      | Pass-through <sup>2</sup>  |
| •  | •                                    |  |
| •  | •                                    | 2 years warranty   |
| •  |                                      | Laser interleck, Marking start (24DC)                                |
| •  | •                                    | Laser Interiock, Marking start (24DC),<br>Marking stop (24DC) E-stop |
|  |                                      | Error reset. Laser busy  |
| •  | •                                    | TCP/IP/RS232/  |
|  |                                      | Programmable digital I/O (4/4)                                       |
| 0  | 0                                    | External programmable digital I/O (16/16)                            |
| F=100, F=160 <sup>4</sup> ,<br>F=254, F=330, F=420 | F=150, F=200,<br>F=300, F=400        | Lenses   |
| 0  | 0                                    | Exhaust system   |

# **Speedmarker-Series overview**

More information about the features and options can be found on pages 40-42.





|   | SpeedMarker 1300                                   | SpeedMarker 1350                                   |
|---|--|--|
| Marking area (B x D)  | 310 x 310 mm                                       | 310 x 310 mm                                       |
| Working area (W x D)  | 1000 x 450 mm                                      | 1000 x 500 mm                                      |
| Max. height of workpiece <sup>1</sup>   | 303 - 453 mm                                       | 537 - 687 mm                                       |
| Overall dimensions (W x D x H)  | 1300 x 1030 x 1800 mm                              | 1300 x 1327 x 2040 mm                              |
| Max. processing speed   | 6 m/s  | 6 m/s  |
| Laser class   | 2  | 2  |
| Weight <sup>2</sup>   | 400 kg   | 580 kg   |
| Power consumption   | 230V AC,16A 50/60Hz,<br>1/N/PE, max 1400 W         | 230V AC,16A 50/60Hz,<br>1/N/PE, max 1400 W         |
| CE-Marked   | •  | •  |
| Laser power   |  |  |
| Laser power fiber   | 20, 30, 50 W                                       | 20, 30, 50 W                                       |
| Laser power MOPA  | 20, 100 W  | 20, 100 W  |
| Laser power CO <sub>2</sub>   |  |  |
| Z-axis  | •  | •  |
| X-axis  | •  | •  |
| Y-axis  | •  | •  |
| Software  |  |  |
| SpeedMark <sup>®</sup> , DirectMark   | •  | •  |
| SpeedMark <sup>®</sup> Vision - SmartAdjust   | 0  | 0  |
| Funktioner och tillval  |  |  |
| Dynamic Shifter (3D)  | 0  | 0  |
| Rotary attachment   | 0  | 0  |
| Automatic lift door   | •  | •  |
| Manual lift door  |  |  |
| Extendable table <sup>3</sup>   |  | 0  |
| Double shuttle table <sup>3</sup>   |  | 0  |
| Safety foot switch  | 0  | 0  |
| High-performance industrial PC  | 0  | 0  |
| Pass-through <sup>2</sup>   |  |  |
| 2 years warranty  | •  | •  |
| Externa gränssnitt  |  |  |
| Laser interlock, Marking start (24DC),<br>Marking stop (24DC), E-stop,<br>Error reset, Laser busy | •  | •  |
| TCP/IP/RS232/   |  |  |
| Programmable digital I/O (4/4)  | •  | •  |
| External programmable digital I/O (16/16)   | 0  | 0  |
| Lenses  | F=100, F=160 <sup>4</sup> ,<br>F=254, F=330, F=420 | F=100, F=160 <sup>4</sup> ,<br>F=254, F=330, F=420 |
| Exhaust system  | o  | 0  |

Standard

Options

1 Depending on lens and configuration



#### SpeedMarker 1600 310 x 310 mm Marking Area (B x D) Working area (W x D) 1300 x 450 mm Max. height of workpiece<sup>1</sup> 277 x 427 mm Overall dimensions (W x D x H) 1600 x 1030 x 1790 mm Max. processing speed 6 m/s Laser class 2 Weight<sup>2</sup> 500 kg 230V AC,16A 50/60Hz, Power consumption 1/N/PE, max 1400 W **CE-Marked** Laser power Laser power fiber 20, 30, 50 W Laser power MOPA 20, 100 W Laser power CO₂ Z-axis • X-axis . 0 Y-axis Software • SpeedMark<sup>®</sup> , DirectMark 0 SpeedMark® Vision - SmartAdjust Funktioner och tillval 0 Dynamic Shifter (3D) Rotary attachment 0 Automatic lift door Manual lift door Extendable table<sup>3</sup> Double shuttle table<sup>3</sup> Safety foot switch 0 High-performance industrial PC 0 Pass-through<sup>2</sup> 2 years warranty Multifunktionellt bordsconcept Laser interlock, Marking start (24DC), Marking stop (24DC), E-stop, Error reset, Laser busy TCP/IP/RS232/ Programmable digital I/O (4/4) 0 External programmable digital I/O (16/16) F=100, F=160<sup>4</sup>, Lenses F=254, F=330, F=420 Exhaust system 0

# Functions and options

# Air Assist

Each material reacts differently to a laser treatment. In laser engraving and laser cutting, the supply of compressed air can significantly affect and improve the results. Air Assist also protects the lens from damage, as it prevents dust from sticking.

#### Atmos exhaust system

This practical exhaust system ensures safe and clean operation of the laser system. It removes dust and gases from the work surface and filters odors generated during laser processing with its active carbon filter. The Atmos exhaust system contributes to a longer lifespan and protects the laser's lenses.

# **CeramiCore**<sup>®</sup>

The patented CeramiCore<sup>®</sup> laser source technology impresses with its reliability, engraving quality and longevity. The resonator of the laser source, i.e. the point at which the laser radiation is generated is 100% ceramic. Ceramic lasers can be used at much higher pressures, resulting in better and faster pulsatility, which in turn is essential for highspeed engraving and marking.

# Digital table exhaust

In order to achieve the highest cut quality, the best possible vacuum is required during laser processing. The digital table exhaust takes care of this on the SP2000 and SP3000 so that you don't have to cover the surface, that is not used, manually.

# Flexx Technology™

The patented Flexx Technology<sup>™</sup> integrates two laser sources - CO2 and fiber in the same machine, enabling the processing of different materials in the same job. The CO2 laser source is ideal for engraving and cutting plastic, wood, rubber, leather and many more materials. The fiber laser is the right tool for marking metal and achieving color change on plastic. The two laser sources are activated alternately in a job without manually changing the laser tube, lens or focus. This ensures the highest processing quality and productivity.

#### Galvo rotary unit

Our Galvo rotary unit is suitable for marking cylinders, rings, pipes and other conical objects. The rotary unit can be installed as an additional module in the SpeedMarker Series.



#### Gas Kit

With the Gas Kit, up to two process gases can be connected if desired (e.g. compressed air and N2). It prevents flames, improves dust transport and also protects the lens. For certain materials, e.g. textiles, wood or paper, the use of process gases is essential.

#### Inpack Technology™

Fragile components are protected from dirt and dust by Inpack Technology<sup>™</sup> with integrated air flushing. It provides exceptionally low maintenance and cleaning costs and thus low operating costs even with very intensive use.

#### JobControl<sup>®</sup> Vision

JobControl<sup>®</sup> Vision is Trotec's laser software for precise laser cutting of printed materials, e.g. acrylic, paper, film or cardboard. The camera on the laser's working head reads, and distortions in the print are detected and compensated for, and the material is precisely cut. This speeds up production times and saves time on non-erroneous cuts.

#### Laser power upgrade

Every Trotec flatbed laser machine can be upgraded to a higher laser power at any time. This is a cost-effective way to take advantage of more power and higher productivity if you need it. Only a few parts of the Trotec laser need to be replaced for this purpose.

# Optimotion™

The motion control of the new innovative OptimotionTM stands for maximum cutting speed with the highest cutting quality. OptimotionTM optimizes and calculates the cutting speed and acceleration in real time based on the geometry and delivers high quality in curves and maximum throughput. This has resulted in cutting jobs being carried out up to eight times faster than competitor machines.

# Pass-through kit

Full flexibility also means being able to work on workpieces that are larger than the machine. Speedy 400 and SP500 offers the possibility of removing a passage hatch at the rear. The pass-through allows you to process long and bulky materials such as doors and wall panels of various kinds. This is optional.

# Rotary attachment

With the rotary attachment, you can engrave conical, cylindrical and spherical objects such as glasses, cups, vases and bottles in various sizes. A special roller attachment allows the processing of objects with large or small openings that do not fit into the standard cones.

# **Ruby**<sup>®</sup>

Ruby<sup>®</sup> is the ultimate design software that enables the daily work with the laser machine to flow smoothly. You can create graphics, photos and text elements and make quick adjustments directly in the program. The platform guarantees profitable order processing and has a networked, web-based and completely digital setup. With Ruby<sup>®</sup>, you can connect all your laser machines in a network, locally or in the cloud, enabling users to distribute jobs to multiple machines from a PC or Mac. Thanks to the new workflow, jobs can be prepared by one user and produced by another at any time, from anywhere.

The smooth workflow starts with the design and continues from the preparation stage to production. Very little training is required for the user and an integrated guide provides additional helpful tips if needed. The user selects materials and material effects, e.g. deeper engraving, dark engraving or carving and the cloud-based material database helps you to streamline the process.

Ruby<sup>®</sup> contributes to a simple and fast workflow from idea to final product!

# Sonar Technology<sup>™</sup>

Get automatic focus quickly and easily with a single push of a button thanks to the ultrasonic sensor Sonar TechnologyTM. The laser head detects the surface of the workpiece, the focus point is automatically identified and the work table is moved to the correct focus distance.

# Tandem Assist

The unique "Tandem Assist" function allows non-stop laser cutting as you can split the work area on the SP2000 and SP3000 in two zones. While the laser cutter in zone A processes the material, the finished parts can be removed in zone B and loaded with new material. This means that the machine never needs to stand still and thus increases productivity considerably.

#### Temperature sensor

Some materials (eg acrylic) are highly flammable, especially when cutting. That is why Trotec has designed the temperature sensor. If the temperature inside the machine exceeds a critical value, the laser will signal this with a warning sound. This guarantees maximum safety for you when using the laser.

# Travelling exhaust

An extraction system directly connected to the laser head removes dust and gases generated during the laser process. The finished exhaust is indispensable for engraving applications and the exhaust efficiently extracts dust where it is produced. This will improve the engraving result significantly when working with wood, laminate or acrylic.

# Vision Design & Position

The powerful camera is cleverly integrated into the lid of the laser and, in a few seconds, delivers a detailed live image in color over the entire work surface to the Ruby® software. In this way, you can design graphics, place text directly on the workpiece or adjust an ongoing laser job live in Ruby®. Vision Design & Position shortens the laser workflow.