TROTEC LASER SP SERIES

Impressive diversity of materials

With the SP series of laser machines, you can cut or engrave the widest variety of possible materials. The range ranges from acrylic, plastic or wood, to cardboard, MDF, textiles or paper. Discover all the possibilities.

The materials that the SP series can work with (100, 300, 400, 500), shown below, to cut are:

Plastics:

Acrylic (PMMA)

Acrylonitrile butadiene styrene copolymer (ABS)

Engraving plastics (laminates)

Polyamide (PA)

Polybutylene terephthalate (PBT)

Polycarbonate (PC)

Polyethylene (PE)

Polyester (PES)

Polyethylene terephthalate (PET)

Polyimide (PI)

Polyoxymethylene (POM), e.g. DelrinR

Polypropylene (PP)

Polyphenylene sulfide (PPS)

Polystyrene (PS)

Polyurethane foam (PUR)

Foam (PVC-free)

PETG (modified PET)

SAINT

Textiles:

Polyester (PES)

Felt

Microfiber

Technical fabrics

Leather

Artificial leather

Natural fiber (e.g. cotton, linen)

Wool

Silk

Aramid

Others:

Wood

Cardboard

Paper

Cork

Rubber

The following materials correspond to those that the SP series can perform the Record action (engraving):

Plastics:

Acrylic (PMMA)

Acrylonitrile butadiene styrene copolymer (ABS)

Engraving plastics (laminates)

Polyamide (PA)

Polybutylene terephthalate (PBT)

Polycarbonate (PC) Polyethylene (PE) Polyester (PES)

Polyethylene terephthalate (PET)

Polyimide (PI)

Polyoxymethylene (POM), e.g. DelrinR

Polypropylene (PP)

Polyphenylene sulfide (PPS)

Polystyrene (PS)

Polyurethane foam (PUR)

Foam (PVC-free)

Textiles:

Felt Leather

Artificial leather

Natural fiber (e.g. cotton, linen)

Others

Wood

Cardboard

Paper

Cork

Rubber

The above corresponds to a set of information about the various materials with which the Trotec SP series machines can work. Clearly the materials that are not constituted in each section indicate that they are not suitable for working in the cutting or engraving modality.

Datasheet:

The following technical information corresponds to the laser cutting and engraving machines of the SP series, specifically the SP3000, SP2000 series and the SP500 series, the chosen format corresponds to the following: "feature: Sp3000 |Sp2000 |Sp500", this means, a characteristic of the machine followed by a colon, and the first value found corresponds to the SP3000 machine followed by a "|" then it corresponds to the SP2000 machine after a "|" and ending with the corresponding value of the SP500 machine, the technical information of the machines is below:

Working area (W x H): 2210 x 3210 mm | 1680 x 2510mm | 1245 x 710mm

Max.1 height of workpiece: 50mm | 50mm | 112mm

Loading area (W x H) :2500 x ∞ mm | 1950 x ∞ mm | 1420 x 820mm

Dimensions (W x H x D): 3078 x 3914 x 1230 mm | 2520 x 3214 x 1230mm | 1940 x 1240 x

1140mm

Max processing speed: 1 m/s | 1 m/s | 2.54 m/s Acceleration max: 10 m/s^2 | 10 m/s^2 | 19 m/s^2

Motion System Technology: Brushless DC Servo Motors | Brushless DC Servo Motors |

Brushless DC Servo Motors

CO2 laser power: 60 - 400 W | 60 - 400W | 60 - 200W

Laser class: 2 |2 |2^3

Weight^2: 1600 kg| 1400kg | 520kg

Energy consumption:

400 V 3 Ph., 50/60 Hz, 3x16 A |400 V 3 Ph., 50/60 Hz, 3x16 A | 208 - 230 V, 50/60 Hz, 16 A 380-400 V 3 Ph., 50/60Hz, 3x16 A 380-400 V 3 Ph., 50/60 Hz, 3x20 A

Software

JobControlR: Si | Si | Si

JobControlR Vision: opcional | Opcional | Opcional | JobControlR Cut: Opcional | Opcional | Opcional |

Features and Options:

Accessibility on all four sides: Yes | Yes | No Tandem work mode: Optional |Optional| No Automated extraction table: Optional |Optional | No

Feeder: Optional INo I No

Air purged optical elements: Yes | Yes| Yeah **Mobile suction**: Optional |Optional |Optional

Gas kit: Yes | Yes | Optional

Rotary engraving accessory: Options |No | No

InPack Technology™: Yes | Yes |Yes

Harsh environment protection kit: Yes | Yes | Yeah

OptiMotion™: Yes | Yes | No

Sonar Technology™: Optional | Optional | No

TroCare: Optional | Optional | Optional | 2 years warranty: Yes | Yes | Yes |

Multifunctional table concept:

Aluminum cutting table: Optional | Optional | Acrylic cutting table: Optional | Optional | Optional | Aluminum slat cutting table: Optional | Optional | Optional | Acrylic lamella cutting table: Optional | Opt

Vacuum table: Optional | Optional | Optional

Honeycomb cutting table: Optional | Optional | Optional

Glasses:

2.0 in CO2: Stagnate | No | No

2.5 in CO2 :Standard |Standard |Optional

2.5 in CO2 CL: Optional |No | No

5.0 in CO2: Optional | Optional | Optional

Compatible extraction systems:

Vent Set 3000 Atmos PowerJet Vent Set 3000 Atmos PowerJet Vent Set 500 Atmos PowerJet

Costs:

The cost of the SP500 laser cutting and engraving machine is \$75,000 US +Transportation The cost of the SP2000 laser cutting and engraving machine is \$78,000 US+Transportation The cost of the SP2000 laser cutting and engraving machine is \$80,000 US+Transportation The machine installation service is covered the costs of the machine