The first modular laser system for die cutting and creasing of Packaging and Graphics Arts.

- **PaperOne 5000** is the most technologically advanced system for digital converting and finishing of sheet materials. Specially designed for the packaging and graphic arts industry, PaperOne 5000 is the new modular laser based solution for real-time die-cutting and creasing.
- **PaperOne 5000** can be configured according to the customer’s needs either at the time of purchase or at any time: a wide range of options that can be field installed allows to upgrade the system at a later date.
- **PaperOne 5000** die-cuts and creases both sides of the sheet (front/back) depending on the graphic and design jobs required.
- **PaperOne 5000** matches with the most sophisticated digital workflow software programs by reading of Barcode, Qr Code etc.
- **PaperOne 5000** is fully “auto-setting” and remotely controlled.
- **PaperOne 5000** has a precise mechanical registration system in addition to a digital camera based registration system.
- **PaperOne 5000** is available in 6 laser configurations. It is designed to meet even the most demanding production requirements.
- **PaperOne 5000** utilizes an innovative, proprietary creasing/embossing system exploiting a male/female concept. A stand alone station (Origami) allows to quickly and simply create creasing/embossing plates without recourse to outsourcing. The creasing quality is equal to that of traditional professional creasing.
- Currently available modules include: manual or pallet loading automatic feeder, alignment table, male/female creasing module, laser die cutting unit, single or dual laser module, waste collector, sheet brushing module, automatic pallet loading stacker, offline system for creating creasing/embossing plates, fume exhaust system.
- **Substrate types:** PAPER, CARDBOARD, PET, PP, BOPP.
- **Substrate range:** 0.15 - 1.6 mm.
- **Max sheet size:** B2 - 750 x 530 mm.
- **PaperOne 5000** is classified as Class 1.
- **PaperOne 5000** complies with IEC EN 60825/1.
Main technical features:

- **Sheet size input (mm)**: min. 420x297 - max. 750x530
- **Sheet thickness (μm)**: min. 150 - max. 1600
- **Cut technology**: CO₂ sealed off laser sources - Radio-frequency pumped
- **Laser power (W)**: 300 – 500 - 800
- **Laser sources**: Single or double
- **Productivity (sheet/h)**: max. 2500
- **Transport speed (mt/min)**: max. 40
- **Laser working area**: Double 750x530
- **Registration method**: Mechanical/vision camera
- **Pile height (mm)**: max. 800
- **Input system**: Automatic feeder or manual
- **Creasing tool**: Proprietary magnetic flexible plates creasing
- **Norm compliance**:
  - 2014/35/EU Low Voltage Directive
  - 2006/42/CE Machinery Directive
  - 2014/30/EU Electromagnetic Compatibility Directive
  - IEC EN 60825-1 Laser

**Options:**
- Automatic feeder loaded from pallet;
- On the fly job changes by Qr Code reading (front/back);
- Camera registration of front and back printed markers;
- Sheet brushing module;
- Automatic pallet loading stacker;
- 6 laser configurations available;
- Patented 3D Origami for the creation of creasing/embossing clichés;
- Activated carbon filter exhaust system;
- Waste collector and fumes exhaust system.

**Dimensions:**
- L 8660 mm
- W 2120 mm
- H 2080 mm

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