Legendary Performance

Introduction Meeting New tools

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Summa®

Summa F Series
Professional Flatbed
Finishing Systems

F Series
Perforation Tool

F Series
Perforation Tool

General info

The new Summa perforating tool for the F Series is used to make perforations in a **very efficient and fast way**.

Perforated materials will be a lot **easier to bend or fold**. Then, the folds will have **sharper 90° edges** resulting in a nicer finish.

This will **save considerable time in the assembling** of, for instance, cardboard or polypropylene boxes.

Ideal for cutting: Solid cardboard, Corrugated board, Polypropylene film

F Series
Perforation Tool

Strongest features

- Up to 25 times faster cutting of perforation lines (versus EOT tool)
- Alternative for creasing. Folding and bending lines into cardboard
- High-quality perforated cuts
- Several knives available

Customer benefits

- Shorter cutting process
- Perforated lines will be easier to bend and process, saving labour and finishing costs
- Bending lines are more straight

F Series
Perforation Tool

Perforation Tool:

ItemNr	Description
500-9315	Perforating tool The tool standard included three perforation knives 500-9891 / 500-9892 / 500-9893

Perforation Knives:

ItemNr	Description
500-9890	Perforation Knife 1 x1 mm D1.1 mm (12TPI)
500-9891	Perforation Knife 1.7 x1.7 mm D1.1mm (8TPI)
500-9892	Perforation Knife 3x3 mm D4 mm (4 TPI)
500-9893	Perforation Knife 5x5 mm D4 mm (3TPI)

12 TPI means about 12 perforations per inch, of 1 mm x 1 mm. D means max. cutting depth 1,1 mm.

F Series
Perforation Tool

Examples of the knives and their application

Perforating tool for cardboard, (example craft back 0,5 mm)
Cardboard often used for small boxes
Knife to use: 500-9891 (1.7x1.7mm D1.1mm) or 500-9890 (1x1mm D1.1mm)

Application: Instead of creasing, the cardboard can be perforated, which will result in cuts that are much easier to bend. The perforation cut is done on the printed side. For optimal results, the creasing and cutting are done at the rear side of the cardboard.

Perforating tool for cutting corrugated (example: E-flute 1,5 mm)
Knife to use: 500-9892 (3x3mm D4mm) or 500-9893 (5x5mm D4mm)

Application: Also in this case the perforated material will be easier to bend as opposed to creasing. The best result is obtained when creasing is combined with perforated cuts. This way, the perforated cardboard bends perfectly 90°. For optimal results, creasing, perforating and cutting are done at the rear side of the cardboard.

F Series
Perforation Tool

Perforating lines to create self-closing folding boxes

The better bend properties of the perforated lines enable the creation of a folding line at the bottom of a box.

F Series
Perforation Tool

Examples of the knives and their application

Perforating tool for cutting Polypropylene (example: 0,8 mm PP)
Used to produce small boxes, maps, etc.
Knife to use: 500-9891 (1.7x1.7mm D1.1mm) or 500-9890 (1x1mm D1.1mm)

Application: When processing perforated cuts in polypropylene sheets, it will be easier to bend the folding lines. The best result is obtained when the material surface is first slightly cut at the material surface with the kiss-cut tool. The usage of the perforation tool afterwards, will give it a nice finish. It is perfectly possible to bend 90° and maintain a clean folding line that can be folded durably several times.

F Series
Perforation Tool

Practical information

Minimum system requirements

- GoProduce V2.3
- Firmware Version 39

Recommended options

An additional tangential module may be needed because the perforating tool will probably be used in combination with cutting and creasing tools.

Tip: when using three tangential modules, make sure the left ADC is installed.

F Series

1400W Router System

F Series
1400W Router System

General Information

- The new 1400W router module offers an attractive performance increase with improved output quality over the standard router.
- The router is capable of handling most used solid boards in the Graphic Industry.
- It is suitable for milling, contour cutting, polishing and engraving.

F Series
1400W Router System

Strongest features

- 30% faster versus standard router
- Improved spindle concentricity
- Industrial standard, balanced ER16 collets
- Improved RPM adjustment, for better consistency
- Compatible with existing bits, and extra 8 mm bits.
- Best Price Performance

F Series
1400W Router System

Customer Benefits

- The higher power, combined with the improved spindle concentricity, will allow to process materials more than 30% faster with improved, excellent edge finishing.

Minimum system requirements

- GoProduce v2.3
- FW version 39

F Series
1400W Router System

Upgrading existing F-series is possible

- Existing standard routers can be field-upgraded to the 1400W router by replacing the extractor brush and router motor

  → Required spare parts KIT-5113 and 500-9364.

ItemNr	Description
KIT-5112	SPARE ROUTER MODULE 1400W
KIT-5113	EXTRACTOR BRUSH ROUTER 1400W
500-9364	REPLACEMENT ROUTER 1400W

F Series

Positioning vs HF Router

	HF Milling Motor	**1400 W Router Motor**
Motor system	Brushless DC motor	DC motor
Speed range	5,000 - 48,000 / 50,000* rpm	5,000 - 25,000 rpm
Output power	max. 1,050 W	Max. 1000W

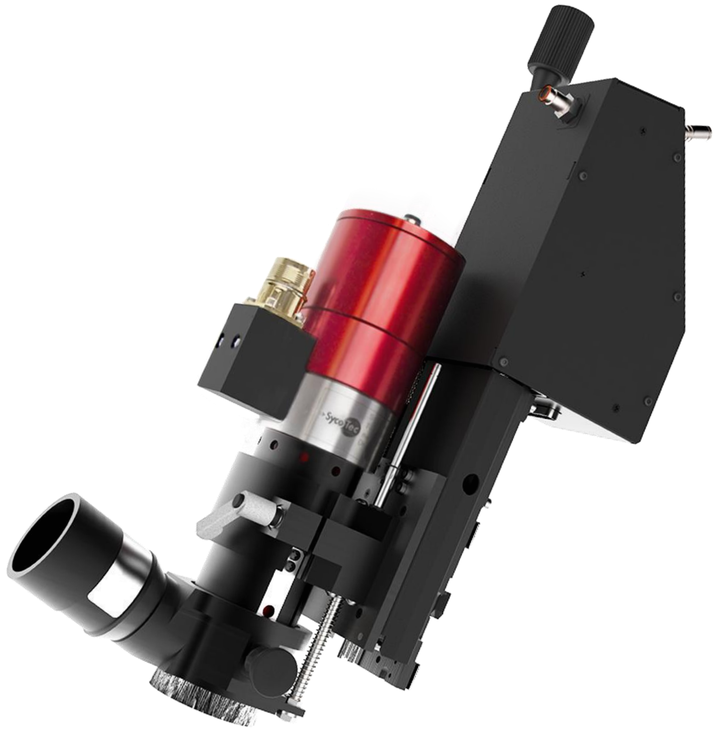
*short term

F Series

Positioning vs HF Router

HF Routing System

- More performance in general, delivering higher spindle speeds will offer higher **productivity.**
- The High Frequency Routing System allows you to do **bit changes** during your routing job.
- The High Frequency Routing System has **a balanced motor**, allowing you to use balanced bits for a **better finish**.
- ~~The High Frequency Routing System uses a powerful motor and will cut thicker materials with ease, using larger routing bit diameters.~~



F Series
Positioning Routers

The 1400 W Router System

- Mechanical motor is limited to a maximum **of 25,000 Rpm** with **improved RPM adjustment**, for better consistency vs Standard router
- More output power, **30% faster** versus standard router
- **Improved spindle concentricity** with industrial standard, balanced ER16 collets available.
- Compatible with existing bits, and extra 8 mm bits available.
- **Mechanical collet** on the router; a wrench is needed to replace bits.
- Output power is 1000W which allows you to cut most commonly used solid boards in the graphic and sign industry, such as **hard foam PVC, acrylic, MDF and aluminum covered foam boards.**
- **The 1400W Router is powered by a brushed motor**, which needs maintenance.

The Standard 1000 W Router System

- **Mechanical motor** is limited to a maximum of 25,000 Rpm
- Rotational speed can be set in fixed steps until **25,000 Rpm**
- **Mechanical collet** on the router; a wrench is needed to replace bits.
- Output power is 650W which allows you to cut most commonly used solid boards in the graphic and sign industry, such as **hard foam PVC, acrylic, MDF and aluminum covered foam boards.**
- **The Router is powered by a brushed motor,** which needs maintenance.

→ The 1400W router offers better productivity & better-Quality vs
The Standard Router which is still a good entry level solution for price sensitive customers

F Series
Positioning Routers

The 1400 W Router System

- Mechanical motor is limited to a maximum **of 25,000 Rpm** with **improved RPM adjustment**, for better consistency vs Standard router
- More output power, **30% faster** versus standard router
- **Improved spindle concentricity** with industrial standard, balanced ER16 collets available.
- Compatible with existing bits, and extra 8 mm bits available.
- **Mechanical collet** on the router; a wrench is needed to replace bits.
- Output power is 1000W which allows you to cut most commonly used solid boards in the graphic and sign industry, such as **hard foam PVC, acrylic, MDF and aluminum covered foam boards.**
- **The 1400W Router is powered by a brushed motor**, which needs maintenance.

The High Frequency Router System

- Seemless transitions between rotational speeds from 1000 Rpm until **48,000 Rpm,** which generate **faster processing speeds**.
- **Pneumatic collet** on the HF router, no wrenches are needed and **bits can be replaced easily**.
- With up to 1 kW output power the HF milling motor **allows processing thicker materials and faster processing speeds.**
- **The HF milling motor is powered by a *Brushless* DC motor**. The unit is *continuously kept under low air pressure,* which generates a continuous airflow through the gaps. This avoids dust from entering and damaging the bearings. The result is a **long-lasting** milling motor.

→ HF Router still offers better productivity, at a better finishing quality with more user comfort