The i-Mark machine enables digital die cutting or kiss cutting onto many medias including paper, card, vinyl, laminated prints and many more.

The i-Mark cutter can be used for a range of print and cut applications, including short-run label production, digital prints and packaging and will handle sheets of material of varying thicknesses and in sizes ranging from A4 up to Super A3 (330 x 483). It is especially suited to short-run label production, as the die cutting is carried out automatically without the need for users to purchase expensive dies.

One of the unique features of the die cutter is that, depending on the thickness of the material being processed, it can handle up to 120 sheets of material in a continuous cycle but with the ability to add further sheets as required without interrupting the cutting process. This is a capability that Graphtec GB considers sets the die cutter apart from any comparable sheet-fed system.

The cutter comprises three main components: sheet feeder, cutting unit and collection tray. The compact footprint of the cutter enables it to be mounted to a table as small as 60 x 67cm. The machine allows contour-cutting of printed sheets without operator intervention and is equipped with an internal vacuum compressor to eliminate the need for an external air supply connection.

Perfect sheet alignment is achieved via crop mark reading for each individual sheet, with a camera equipped with i-Mark technology performing the crop mark adjustments in a fraction of a second. Software algorithms compensate for any distortion from the printing process to enable precise cutting with minimal bleed. There is also an option to cut perforated lines during file creation.

The cutting parameters set by the software allows the use of crop marks as small as four millimetres, enabling maximisation of the sheet size and minimal material wastage. Contingent upon the material being processed and the complexity of the image outline, the average cutting speed is 30-40 seconds for each sheet. In addition to the kiss-cut cutting option for adhesive sheets, heavier material cutting is possible on board up to 350gsm.

The cutting blade is designed to accommodate two different cutting modes and works by an opening that protects the blade from wear during the cutting process.

View our YouTube channel https://www.youtube.com/user/gtgbuk

Crop mark reading through a dedicated video camera and the i-mark software allows the use of crop marks as small as 4 mm.
This allows maximizing the use of the sheet and minimizing excess material.
A border of 20 mm on two sides must be maintained while on the other two sides, the machine can cut up to the edge of the paper even though users usually leave a gap of 5mm, which is also the usual border used in laser printers.
Crop marks are squares measuring 4 mm per side, normally printed in black, for silk screen prints, any color darker than the print will work; in the even the cutting involves white prints over dark sheets, square holes over the white print are required.
Automatic cutting may be used without crop mark reading when precision cutting not required.

Minimum distance from the front side 20mm for adhesice cut 25mm for cross cut

The cutting path can even touch the upper and rear side at a distance of about 5 mm is preferable.
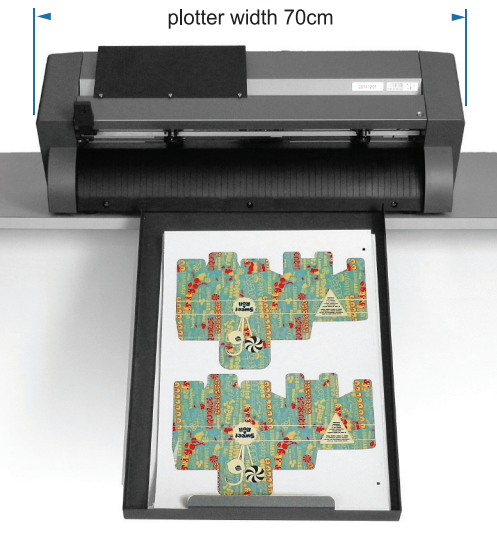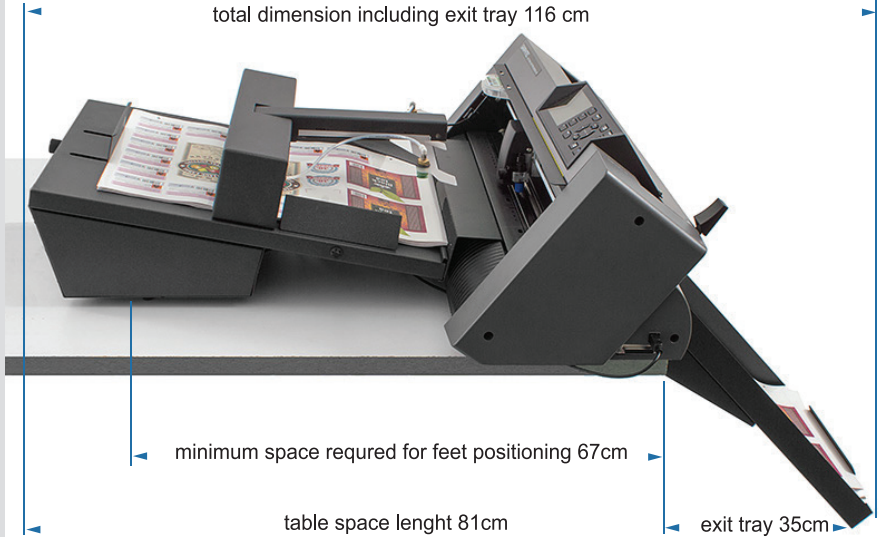
Feeding direction

Square black mark 4mm
Minimum distance from the bottom side 6 mm

Minimum distance of the black mark from the front side 45mm

Minimum distance of the black mark from the rear side 20mm

total dimension including exit tray 116 cm

plotter width 70cm

minimum space requred for feet positioning 67cm

table space lenght 81cm

exit tray 35cm

The system comprises three separate components: inserter, cutting plotter and exit tray. These three parts are positioned one above the other and they must be positioned on a table, where the exit tray may be left hanging above the edge.
The exit tray extends for 35 cm and must be positioned in a location free of tight passages to avoid hitting it when walking by.
The dimensions are quite small; the table on which to machine may rest can be as small as 60 x 67 cm.
The machine is connected to a computer using a USB cable; its dedicate software must be installed on a PC running on Windows; those using exclusively Mac technology may install 'Parallel' compatibility software or opt to purchase a small notebook
The software manages the file in Adobe Illustrator format created both by Mac and Pc; it can also manage files created in CorelDraw.
The cut outline must be saved together with the crop marks, while the rest of the graphic may stay on non-visible levels.
Sample operation may be viewed on the ddcutter channel on YouTube.