intec | colorCUT

DRAFT ISSUE 1

Digital flatbed cutters for on demand applications

Flatbed range

colorCUT
FB1175
Digital Die Cutter

intec

FB550   **FB750**   **FB1175**   **SERVER STATION**

Cut absolutely any shape
ColorCut flatbeds

Designed in the UK, beautifully engineered, totally accurate and highly affordable. The Intec ColorCut flatbed series defines a new industry standard.

Perfect for light to medium run production of two and three dimensional items, the ColorCut series offers a range of machines to suit the cutting and creasing of virtually any form of print, from cardboard packaging for high-end products and protective cartons – to synthetic point-of-sale items and kiss-cut adhesive labels. The ability to digitally produce single items on demand, also makes the ColorCut perfect for prototyping.

Bespoke, market-leading software brings many advanced features to aid design and production.

Flatbed cutting & creasing

No matter whether you produce 2D point-of-sale and labels or 3D packaging and displays – ColorCut flatbed cutting tables will perform effortlessly, and on demand.

Cartons, packaging, point of sale & kiss cut labels - all with one system!

ColorCut flatbeds come complete with a selection of cutting blades and mats to suit a wide range of materials being cut including lightweight papers, cards, label stock and synthetic substrates.

Create stunning packaging with superb creasing and crisp cut lines/perforations on heavier-weight stocks for items such as luxury product packaging, gift boxes, utility packing and much more by using the supplied superior grey felt cutting mat and industrial circlip blades (included with every flatbed) making it suitable for use with heavier-weight materials.

Perfect kiss-cut labels, interior and exterior point-of-sale, novelty greetings cards and vinyl decals can also be produced when used in conjunction with the provided self-healing cutting mat.

Card & film up to 600 micron
Cut, crease, perforate and score
100% digital - no dies required
Wide choice of models from SRA3 to B1+ cutting tables

FB550   FB750   FB1175   Server Station

Seriously better
ColorCut flatbed cutters

ColorCut flatbeds have been designed and developed to deliver the accuracy, speed, ease-of-use and reliability demanded by serious print professionals.

Intec has invested in producing a class-leading system, which will keep pace with industry advancements and deliver *beyond* expectations. ColorCut owners are buying into a future-proof system that will not only evolve and grow with industry requirements - but deliver additional and unique profit-making opportunities.

Engineered for reliability. Designed in the UK, the ColorCut flatbed range has a pedigree of solid engineering, robust mechanical parts, the latest high-tech electronics and simplicity of use - all at an extremely affordable price point!

Digital die cutting. Using advanced digital contour cutting technology, the flatbed tools follow artwork cut and crease lines drawn in Adobe® Illustrator® or CorelDRAW® – no need to purchase and wait for traditional dies to be made.

Deliver on demand. Cuts a typical SRA3 sheet in just 30 - 60 seconds. This enables users to easily and affordably produce anything from as little as one or as many as 1,000 sheets per day.

Uniquely ColorCut

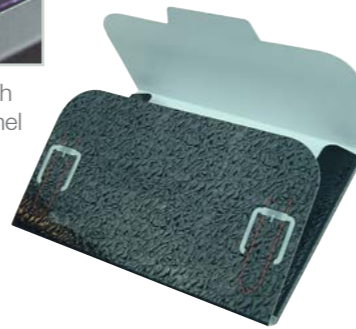**1.** Dual tool head delivers class-leading force to both the crease and cut tools

2. Job coding revolutionises functionality and line tasks

3. Vacuum hold down table with choice of cutting mats

4. Immersive 5" touch screen control panel

Vacuum hold down table. Sheets are held securely in place on either a green self-healing or superior grey felt cutting mat, by a vacuum produced by a powerful centrifugal air pump. Suction passes through the perforated hold down table and the mat, keeping sheets flat and secure.

Job sensing. Perfect registration of the printed sheets to the desired cut line is guaranteed by the presence of an optical sensor or CCD camera, which reads page marks and barcode/QR code (see software section), and enables the dual tool head to follow the path of drawn vector lines.

Batch productivity. Multiple sheets can be placed on the cutting mat and with the control settings designated to 'batch productivity', ColorCut will proceed to work on each sheet in turn - thus speeding productivity even further!

Dual tool cutting head. Delivering at least twice the pressure of other models in its class, the ColorCut flatbeds use a dual tool head where both tools operate independently from each other, for all functions, reducing operation time and improving productivity. The creasing tool is double-ended, offering a choice of wide or narrow crease, as required.

Fingertip control. The intuitive touch screen control panel integrates with ColorCut Pro and display's easy to follow instructions, ensuring operators are able to respond effectively to system requirements.

High power vacuum included. All Intec ColorCut flatbeds come with an extremely powerful centrifugal air pump which provides the power, to hold down printed sheets, onto the cutting table. An auto cut-off feature announces the end of each cut sheet. The pump is housed within an attractive, purpose made acoustic housing and supplied with an effective silencer*.

optional for the FB550 model

Barcode reading   **QR code reading**

36515   1838974

Barcode - optical sensing   QR code - CCD camera recognition

colorCUT pro
Digital Die Cutting for Intec

ColorCut Pro 3 software
ColorCut Pro has been developed exclusively by Intec to work the way you work - no new software to learn when designing your jobs - and offers key productivity features to deliver exactly the kind of user experience that we know the print finishing industry demands. We offer two working modes within the ColorCut Pro application and the mode used is model dependent.

Barcode Mode - FB550
Job barcoding. The generation of job barcodes revolutionises the production and job filing process. ColorCut Pro can automatically create a barcode specifically dedicated to an individual cut file to add to the print PDF. When the flatbed's optical sensor reads the barcode on the printed sheet, ColorCut Pro automatically pulls that file up on screen, ready to cut.

This system works with the FB550.

QR Code Mode - FB750 & FB1175
QR code reading. This is a progressive and exciting development of ColorCut Pro software. The flatbed utilises 8th generation ARMS technology with an on board Vision3 CCD video camera, scanning the QR code, to instantly retrieve the associated cut/crease file and read SmartMarks for perfect registration.
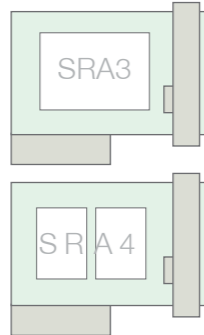
This system works with the FB750 and FB1175 models and other Intec auto feed finishing solutions.

Model selector

A flatbed to suit all applications
ColorCut model options

Depending upon typical job type, run volumes and physical space, there's a ColorCut flatbed to suit virtually all users.

Full system specifications available on rear of brochure.

The optional ColorCut Pro Server Station streamlines production workflow and automates productivity.

FB550

SRA3

S R A 4

Market position Ideal for small commercial printers, graphic design, media and marketing companies or inplants seeking to cut and crease on SRA3 or up to 350mm x 488mm sheets for on demand applications. Produce one offs or hundreds of boxes for prototypes, packaging, greetings cards - also suitable for kiss-cut label sheets.

Supplied with double-ended creasing tool and an adjustable cutting tool - which accepts a range of blades for different media types.
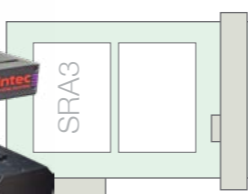
Add the optional silencer for a whisper quiet working environment.

MODEL FEATURES FB550	
Maximum media area	350mm x 520mm
Effective contour cutting area	330mm x 488mm
Cutting & creasing force	960gf
Dual tool functionality	Blade holder and crease tool
Registration system	High resolution optical IR sensor using 6th Generation ARMS technology
Job recognition	Job barcoding for cut file recognition, retrieval from job library and registration

GENERAL	
Media hold-down method	400W Vacuum suction
Acoustic cover for vacuum pump	Yes
Silencer	Optional
Stand	Included
Weight	69kg
Max' dimensions* L x W x H	845 x 870 x 1020mm

FB750

SRA3

Market position With a larger cutting table, the FB750 can handle B2 folders, and larger sheets.   However, it's the combination of the aggressive price point along with the ability to place 2 x SRA3 sheets next to each other (or 4x SRA4), for light production applications, which enables users to achieve higher productivity. With less time taken placing sheets on the table, this cutter is a very popular model. The FB750 comes with an upgraded registration system to include 7th generation ARMS sensing, for faster job retrieval and 300% faster job registration, making it great for multiple sheet cutting; the Vision3 CCD camera will auto find the position of each sheet.
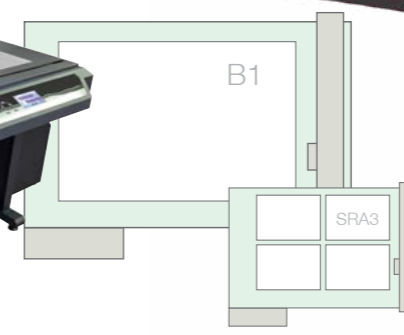
Also includes a higher power 750W vacuum bed, to cut a wider range of media and an acoustic muffler, to ensure the flatbed comfortably fits within any work environment.

MODEL FEATURES FB750	
Maximum media area	475mm x 670mm
Effective contour cutting area	456mm x 640mm
Cutting & creasing force	960gf
Dual tool functionality	Blade holder and crease tool
Registration system	High speed - Vision3 CCD camera using 8th Generation ARMS technology
Job recognition	Advanced QR code for instant job recognition and registration

GENERAL	
Media hold-down method	750W Vacuum suction
Acoustic cover for vacuum pump	Yes
Silencer	Included
Stand	Included
Weight	82kg
Max' dimensions* L x W x H	1070 x 992 x 1020mm

FB1175

B1

SRA3

Market position With the largest cutting table in the range, the FB1175 handles sheets up to B1+ (720 x 1020mm), with a maximum effective cutting area of up to 745 x 1066mm, ideal for cutting larger B1+ sheets from inkjet or printing press applications.

The FB1175 also comes with the latest registration system, making it great for multiple sheet cutting; the Vision3 CCD camera will auto find the position of each sheet.

The flatbed comes with a powerful 1000W fan for maximum sheet suction ensuring 4 x SRA3 sheets can be comfortably placed next to each other.

MODEL FEATURES FB1175	
Maximum media area	800mm x 1100mm
Effective contour cutting area	745mm x 1066mm
Cutting force	1200gf
Creasing force	1500gf
Speed settings	Standard/Fast/High Quality
Maximum cutting speed	1,200mm/second
Dual tool functionality	Blade holder and crease tool
Registration system	High speed - Vision3 CCD camera using 8th Generation ARMS technology
Job recognition	Advanced QR code for instant job recognition and registration

GENERAL	
Media hold-down method	1000W Vacuum suction
Acoustic cover for vacuum pump	Yes
Silencer	Included
Stand	Included
Weight	108kg
Max dimensions* L x W x H	1360 x 1350 x 1010mm

intec PRINTING SOLUTIONS

Note to all devices:
* Maximum dimensions relate to assembled machines and reflect full extremities of each device to allow for aspects such as tool beam and vacuum hose.

Take full control with ColorCut Pro software

Intec has developed and produced dedicated software which is supplied with all ColorCut flatbed cutting tables. This optimises contour cutting capabilities and helps users cut projects with simplicity and precision.

POWERED BY
intec **ColorCut** Pro

Bespoke software

Making production tasks, easy!

- No new drawing program to learn
- ColorCut Pro accepts vector lines directly from Adobe Illustrator or CorelDRAW
- Line colour identification
- Material/Action Database
- Control tools speed & force using SmartLine colour
- Productivity mode enables multiple sheet cutting
- Generate and assign barcodes or QR codes to jobs, saving the cutting file to the job database for retrieval later

- A computer plugin that adds registration marks and either barcodes or QR codes for Adobe Illustrator (Mac & PC) and / or CorelDRAW (PC)
- Cut with or without registration marks
- Customisable registration mark and barcode/QR code position
- Automatic sensor calibration
- High tolerance to variation in brightness, for coloured media or white marks on dark paper
- Software automatically adjusts for print scale, skew or position errors up to 5mm
- Automatically turns off vacuum after cutting
- Application environment works in mm or inches
- Cutting interface can be independent of user's drawing program

QR code scanning on FB750 and FB1175

IR sensor scanning barcodes on the FB550 model

ColorCut Pro explained

ColorCut Pro is a stand-alone application with a plugin, that can be installed on remote computers anywhere within the workflow environment, to perform contour cutting of paper card and synthetics. Intec offers a complete turnkey solutions because we manufacture both the hardware and develop the software for our range of ColorCut flatbed machines.

For creatives the core application enables artworkers to generate barcoded or QR coded cut files with associated job numbers, as an integral part of their design, for instant job recognition and file retrieval.

For print finishers the ColorCut Job Library enables users to retrieve previously prepared cut files into their workflow, without the need to launch Adobe® Illustrator® or CorelDRAW®. This is typically used in a production environment, remote from the design studio and may be further enhanced if using the optional Server Station.

Software development. Intec currently offers two modes within its ColorCut Pro software, both delivering the same operator functionality but differing in the way its generates and reads the data. **ColorCut Pro** automatically generates either a barcode, for the FB550 which uses an on-board optical sensor - or a QR code for the FB750 and FB1175, with on-board Vision3 CCD camera, to read and cut digital files.

The software is supplied with each flatbed cutter and fully integrates with the leading drawing packages; Adobe Illustrator and CorelDRAW.
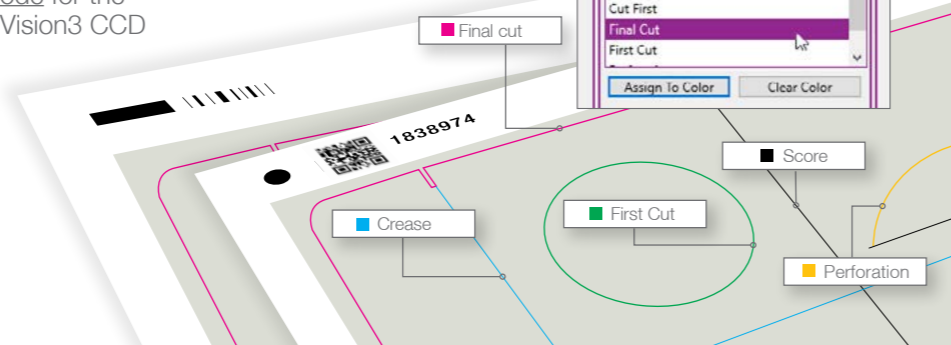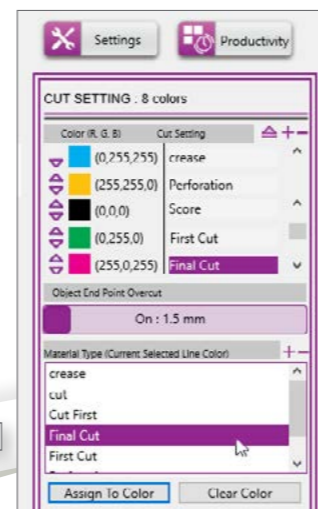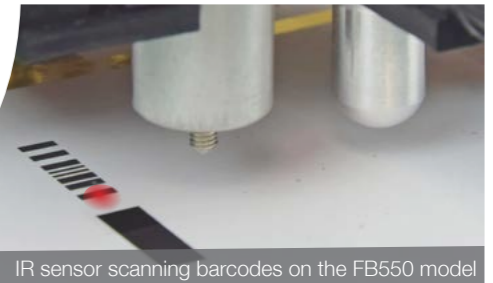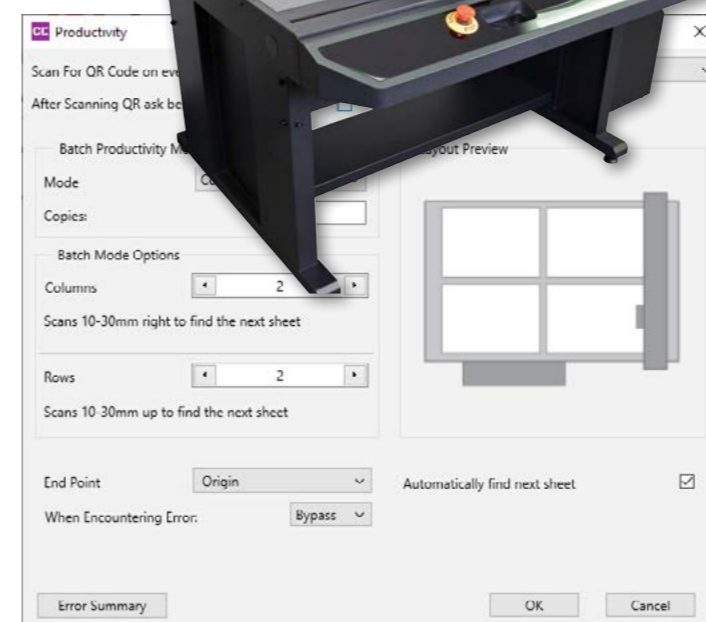
Contour cut with ColorCut Pro

The on board sensor/camera reads the generated barcode or QR code on each printed sheet and retrieves the associated cutting file from the ColorCut Pro Job Library. The user can also key-in the job number, to pull up cut files, should there be a need to remove these from the printed sheet for artworking purposes.

The on board sensor/camera also reads the registration SmartMarks for positional accuracy. Advanced features compensate for print skew or positioning skew to ensure precise cut registration.

Create and modify. Being fully integrated with Adobe Illustrator and CorelDRAW, ColorCut Pro allows users to re-open artwork that requires design elements to be edited. Once edited, simply recreate a new cut file and its data at a keystroke.

Colour recognition. Working with vector lines in the design, it is possible to set-up cutting/creasing processes using different line colours. This feature recognises different colours and allows users to set types operation and the sequence, by colour.

Productivity controls for production runs. Multiple sheets can be placed on the table at the same time and ColorCut Pro can be set to search for each sheet and cut it - improving productivity.
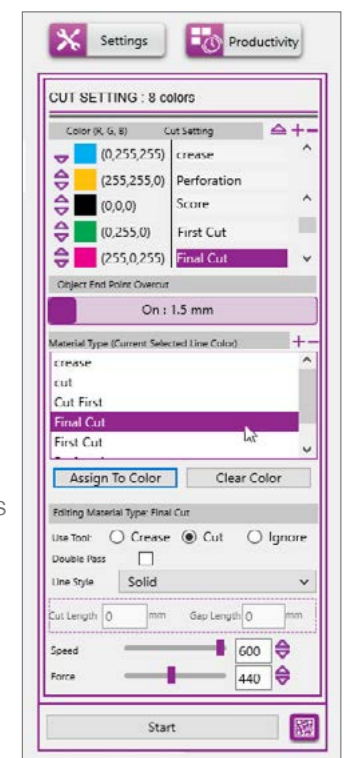
Material database. It's possible to assign a tool; cutting or creasing, along with tool speed and force for each action or material used. This enables users to achieve precisely the correct control for each task. Settings can be saved so users can quickly and easily recall them for future jobs.

Smart Line control. There is no need to draw different types of lines in your artwork, such as dotted or dashed. Using a solid vector line is all that is required. By specifying given lines in certain colours, ColorCut Pro can be used to designate the required tasks to each line colour i.e. red to cut, blue to perforate, green to crease etc.

For complex designs it is possible to change the cutting sequence and order - for example; cut all hanging slots as the first task, perforate the dispensing hole as the second task, perform all creasing next or cut outer shape as final task, etc. This feature can also be used to good affect if the finished item is to be retained within the sheet - simply set the final cut task to contain small 'tags' to hold the design in place.

Origin the sensor and click start. With ColorCut Pro, once the cutting head is positioned on the first registration mark and the origin point is set, the flatbeds sensor will automatically detect the sheet's 2nd, 3rd and 4th registration marks and compensate for any scale, skew or positional errors - cutting will then automatically start.

A comprehensive range of tools and accessories made for ColorCut

Tools & accessories

Server Station

The optional ColorCut Pro Server Station streamlines production workflow and automates productivity.

ColorCut Pro software can of course be used as a stand-alone application - but the integration of the Server Station is strongly recommended as it provides an enhanced user interface, which significantly increases the power and functionality of ColorCut Pros' software suite.

A turnkey solution. The Server Station is an ergonomic, free-standing workstation which can form a network hub for users - and also drive the cutting workflow. The system contains a powerful PC which is pre-installed with the ColorCut Pro software suite which includes:
• Production Studio
• Job Library Manager
• Template Manager
• Additional software user licence

This makes a compelling addition to any environment and is suitable for both Mac or PC users.

Networked access for users. Running a standalone version of ColorCut Pro on the Server Station, ensures users can access all jobs saved to the ColorCut Pro Job Library at any time, without requiring Adobe® Illustrator® or CorelDRAW® and without having to re-open the original file.

• Mac or PC systems running ColorCut Pro, can transfer cut files over the network to the ColorCut Pro Job Library on the Server Station.

• Assigned job numbers, barcodes or QR codes enable instant retrieval of the associated cutting file

• Designers can adjust cutting file settings without having to re-open the original design and artwork file

• No skilled operators required. ColorCut Pro stands alone, which means cutting operatives do not require access to Adobe Illustrator or CorelDRAW in order to cut jobs.

The Server Station is supplied complete with a pre-installed Windows® PC and ColorCut Pro software suite, with a flat screen monitor, mouse and keyboard

Production Studio 4 is the core operating software

Job Library Manager is a network library for cut files and enables saved options

Template Maker enables designers to create simple cartons and shaped items

User Licence allows 2 extra user seats

The software components explained.

Production Studio is the core application for operating ColorCut Pro itself and is used by all users on the network - whether on Mac or PC, although the PC is a prerequisite for driving the cutting workflow.

ColorCut Pro's Job Library Manager adds a sophisticated level of control and enables Mac and PC users to send their cut jobs from the ColorCut Pro client, directly to the Server Station and then continue working, whilst the ColorCut Pro Server Station acts as the focal hub for the production and cutting of all jobs.

Template Manager has recently been added to the ever-evolving suite and allows users to create a range of simple cartons and shaped items. The intuitiive program allows for a wide range of options to tailor X, Y, Z dimension,s flaps, tucks, creasing and perforations etc. Files can then be exported to Adobe Illustrator or CorelDRAW for use on the cutline layer.

Additional software licence is a real benefit for the workforce, as it allows for two additional user seats for multiple ColorCut Pro clients - which really helps in a networked environment.

Tools & accessories

color**CUT**

Tools and accessories

As you'd expect from a serious production system, many of the parts are available as replacements. A full range of original manufacturer parts and accessories are available for after-market purchase. Spares can be purchased at time of ordering the flatbed and/or shipped overnight as and when required.

Creasing tool. This tool is double-ended, offering a choice of tips for either wide or narrow creases, as desired. Precision engineered, this tool sits in the dual tool head.

Cutting tool. This precision engineered component sits in the dual tool head and holds the cutting blade of choice. The tool is manually adjustable to obtain the desired amount of 'blade out' for the job in hand.
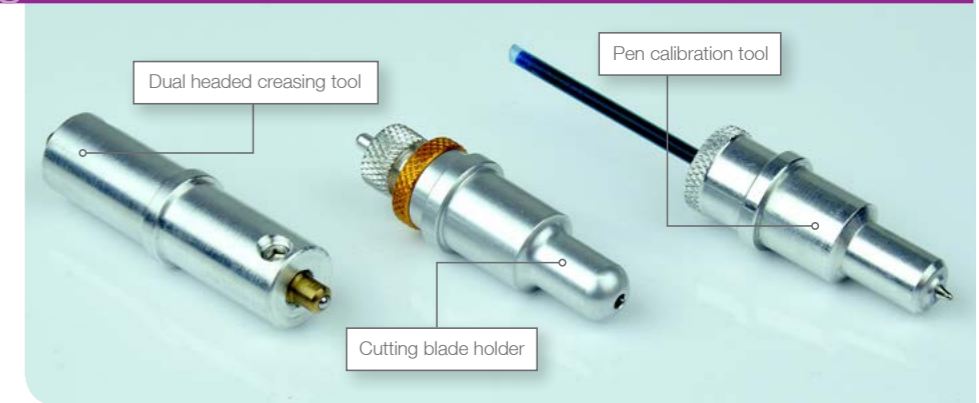
Calibration tool. Used at set up and then periodically, to calibrate the cutter.

Cutting mats. Green self-healing mat is manufactured from a particular rubberised compound enabling blades to sink into its surface without causing surface damage. This mat is ideal for obtaining crisp cuts on thinner materials. Vacuum suction flows through the perforations to hold printed sheets in position.

The grey felt mat is perfect for achieving deeper creasing lines and cuts on thicker substrates. The natural density of the fibres allows the vacuum flow to pass through it for sheet retention.

Vacuum pump. Powerful vacuum pump with mobile acoustic housing, powers vacuum retention of printed sheets to cutting mat.

Acoustic silencer. Reduces sound level of vacuum pump.

Dual headed creasing tool

Pen calibration tool

Cutting blade holder

Cutting blades. These ultra-sharp and hard-wearing blades come in two types and three blade angles. Either as a pack of three the same or as a mixed pack.

Blade legend:
1. *30° blade* 2. *45° blade* 3. *60° blade*
4. *45° circlip knife* 5. *60° circlip knife*

Blades:

Yellow 30° 1mm ø - For film, very soft material, thin label material

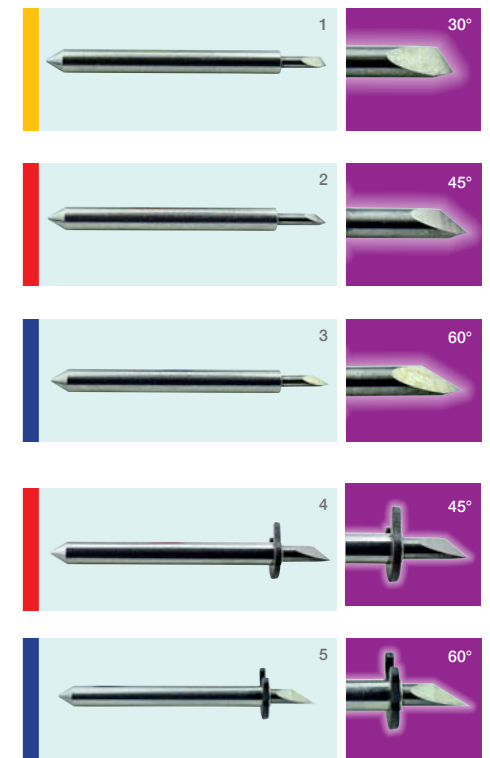Red 45° 1mm ø - Typically for labels, stickers, and thin paper/card

Blue 60° 1mm ø - For thick media. Sharply angled tip provides a longer cutting edge, for cutting media from 0.5 to 1.5 mm thick

Circlip blades:

Red 45° 1.4mm ø - Most packing board up to 500 micron. Circlip provides better pressure and improves blade direction changes on dense media, from 0.25 to 0.5 mm thick

Blue 60° 1.4mm ø - For thick media. Sharply angled tip provides a longer cutting edge, for cutting media from 0.5 to 1.5 mm thick

1 30°
2 45°
3 60°
4 45°
5 60°

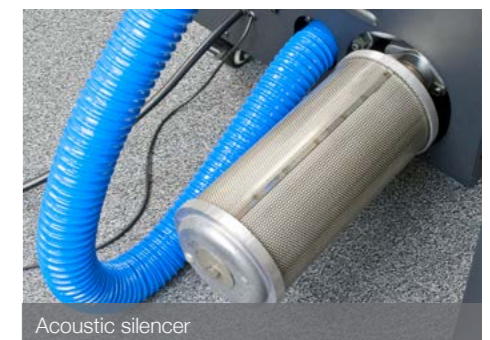**Manuals.** User guides for ColorCut flatbeds and ColorCut Pro software are supplied with all cutters and are also available to download from https://intecprinters.com/support-downloads/drivers-downloads/colorcut

Cutting mats

Vacuum pump

Acoustic silencer

Specifications

MODEL / POSITION		FB550	FB750	FB1175
Format/size		SRA3 / US Tabloid Extra	B2 (2 x SRA3) / US ARCH C (2x Tabloid Extra)	B1+ (4 x SRA3) / US ARCH E1 (4 x Tabloid Extra)
Market		Prototype and light production, on-demand packaging and sheet card cutting system – also suitable for sheet labels		
CUT AREA				
Maximum media area		350mm x 520mm	475mm x 670mm	800mm x 1100mm
Effective contour cutting area		330mm x 488mm	456mm x 640mm	745mm x 1066mm
Stand		Included	Included	Included
Media hold-down method		400W Vacuum suction	750W Vacuum suction	1000W Vacuum suction
Silencer		Optional	Included	Included
CUTTING CONTROL				
Cutting Carriage		Dual Tool Cutting Carriage, (2 independently operated Tool positions)		
Cutting Force		Tool1 (Cut) up to 960gf		Tool1 (Cut) up to 1,000gf (1kg)
		Tool2 (Crease) up to 960gf		Tool2 (Crease) up to 1,500gf (1.5kg)
Max speed*		600mm/sec		High Quality: 750mm/s
				Standard Mode: 960mm/s
				Fast Mode: 1,200mm/s
Mountable tools		3 tools supplied as standard for either tool position: Blade holder, creasing tool & pen tool		
Blades	1mm	Yellow - 30° cemented carbide blade - for thin film and very soft material		
	1mm	Red -45° cemented carbide blade - for adhesive stickers, thin card under 0.25mm		
	1mm	Blue - 60° cemented carbide blade - for thick media, sharply angled tip provides a longer cutting edge - suitable for cutting media from 0.5 to 1.5 mm thick (restricted by maximum limit of flatbed)		
	1.4mm	Red -45° circlip cemented carbide blade - for cutting media from 0.25 to 0.5mm thick		
	1.4mm	Blue - 60° circlip cemented carbide blade - for cutting high-intensity reflective film		
Creasing tool		≤500gsm cardboard, textured & corrugated paper		
Pen holder		Pen, plotting pen, also used for calibration sensor		
Programmable resolution			HPGL 0.025mm	
Typical Cut accuracy			+/- 125 µ	
Max cutting depth		Max. depth 1mm (low density substrate ie. Foamboard), Paper/card up to 600micron/600gsm, PVC - up to 0.4mm, PET - up to 0.3mm, magnetic sticker - up to 600 micron		
SOFTWARE CONNECTIVITY				
ColorCut Pro		ColorCut Pro Client is a plugin for Adobe® Illustrator® & CorelDRAW® (requires either app) and works with native CorelDRAW® or CorelDRAW® EPS files and native Adobe® Illustrator® files. (ColorCut Pro cuts directly from Adobe® Illustrator® or CorelDRAW®)		
Job Identifier		ColorCut Pro 3 (Barcode sensing)	ColorCut Pro3 (QR code sensing)	ColorCut Pro4 (QR code sensing)
ColorCut Pro		● ColorCut Pro - Production Studio is used by the PC to connect to the cutter and send cutting jobs created on either PC or Mac		
		○ Mac Client ONLY* (Mac users use ColorCut Pro - Production Studio (above) to link to PC Job Library for the saving of cut files to the network)		
ColorCut Pro compatibility		PC: Direct Plugin to: Adobe® Illustrator® (all versions), CorelDRAW® X3 - X8 - Mac: Adobe® Illustrator® CC 2018 onwards		
File formats		ColorCut Pro is a plugin for Adobe® Illustrator® & CorelDRAW® (requires either app) and works with native CorelDRAW® or CorelDRAW® EPS files and native Adobe® Illustrator® files. (ColorCut Pro, cuts directly from Adobe® Illustrator® or CorelDRAW®)		
Connectivity		1 x USB*.		1 x USB*
				1 x Ethernet*
REGISTRATION CONTROL				
Registration system		High resolution optical registration system which reads the registration marks on the media and compares theposition with the original value from the digital file. The Intec ColorCut Pro software then acts accordingly to correct linear and angular positional differences by automatically adjusting the cut lines		Advanced 8th generation ARMS (Automatic Registration Mark sys.) Vision3 sensor includes CCD camera & instant auto job recognition + WiFi Preview
CPOWER REQUIREMENTS				
Voltages (cutter)		110V or 220V (Voltage specific)	110V or 220V (Voltage specific)	110V or 220V (Voltage specific)
Power (cutter)		200W, 3.0A		
Voltages (vacuum pump)		110V or 220V (Voltage specific)		
Power (vacuum pump)		400W, 110V / 3.9A (vacuum)	750W, 110V / 10.8A (vacuum)	1000W, 110V / 16.5A (vacuum)
		400W, 230V / 2.7A (vacuum)	750W, 230V / 4.5A (vacuum)	1000W, 240V / 9A (vacuum)
Approvals		Complies with CE and RoHs directive, VCCi Class A, FCC Class A, EN55022 Class A		
GENERAL				
Weight (unpacked)		69kg	82kg	108kg
Max' dimensions* L x W x H		945 x 870 x 1020mm	1000 x 992 x 1020mm	1550 x 1350 x 1010mm
Weight (crated)		102kg	129kg	246kg
Dimensions (crated) L x W x H		1270 x 890 x 550mm	1390 x 1010 x 570mm	1870 x 1490 x 620mm

* Maximum dimensions relate to assembled machines and reflect full extremities of each device to allow for aspects such as tool beam and vacuum hose.

16 August 2021