HIGHCON BEAM 2C

The Highcon® Beam 2C digital cutting and creasing solution answers the stringent market requirements for corrugated packaging.

About Highcon Beam 2C

The Highcon® Beam 2C digital cutting and creasing solution answers the stringent market requirements for corrugated packaging; non-crush process, customizable to enable rightsizing and light-weighting of packaging; strong enough to allow product to be shipped in its own box; and at the same time providing a positive unboxing experience that supports brand owners. The Beam 2C is available in two versions – a pallet feed standard configuration and a field upgradable nonstop feeding, stacking and waste removal configuration.

Box Compression Tests that have been performed by comparing the digitally produced boxes with conventional ones have proven that boxes produced with the same substrate on Highcon's digital cutting and creasing systems are stronger than those produced on conventional machines and this enables thickness reduction that saves costs. Click here to learn more.

At a Glance

- Digital cutting and creasing for corrugated packaging, POS and displays
- Corrugated board from 1-4mm – F E B C Flute including double wall EF , EE flute
- Speed of up to 4,000 B1/42 in. sheets per hour
- 2 configurations: pallet base and nonstop feeder, stacker, waste removal

HighConnect Performance Reporting Platform

HighConnect is a cloud-based data information platform that allows users to monitor their Highcon system production performance. Click here to learn more about HighConnect.

Additional Modules
CAD Light Editor
Included

The Highcon CAD Light Editor software module allows operators to take full advantage of the flexibility of the digital cutting and creasing technology by enabling:

- Last minute editing of crease and cut lines
- Corrections, design changes, optimization
- Nick optimization
  - Increasing or decreasing the size of nicks
  - Adding and removing nicks
- Stripping lines which facilitate efficient waste removal

Advanced Registration
Optional add-on

Highcon Advanced Registration adds the capability to detect a printed mark on the sheet while inputting sheets into the machine paper handling process. This is on top of a mechanical registration that detects the edge of the sheets. This new module improves the registration of cutting and creasing, reducing errors resulting from printing. This is of particular importance for digitally printed sheets and can compensate for the inaccuracy of the printed image relative to the sheet leading edge.

Variable Data Cutting
Optional add-on

This easy to use, variable data cutting and etching software is a high value application for packaging, commercial printing and any printed communication, bringing the benefits of variable data to finishing. It turns a technical process into an opportunity for differentiation. Variable data cutting can transform simple products into premium ones by adding customization, personalization and security applications. The variable cutting can be performed per job as well as per sheet.

Highcon Integrated Digital Stripping
Optional add-on

Available for all Highcon digital cutting and creasing machines. The waste stripping mechanism is a built-in unit inside the Highcon machines that automatically removes the waste from the smallest internal cutouts produced on the sheets by the lasers. The optimized cutting algorithms, together with a new substrate handling system ensure completely clean cuts that are essential for intricate cutouts. All the small particles drop into an easily removable chamber.

* This module removes the need to buy, setup or store a separate stripping tool and further advances the productivity of the machine.

Nonstop feeding, stacking, waste removal
Optional add-on

This optional module improves the productivity of the Beam 2C for medium to long run lengths., It includes an industry standard bottom feeder and nonstop stacker and waste removal , this option will be field upgradable.

Benefits

- Improved supply chain responsiveness, short turnaround time and last-minute corrections
- Rightsizing – ability to customize box size and reduce over-packing
- Digital perforation enabling Frustration Free Packaging
- Dual purpose packaging (SIOC)
- Non-crush process yields higher box strength integrity

Features

- Completely digital workflow
- Easy integration into existing production lines
- Up to 4,000 SPH (B1 / 42 in.)
- Nonstop configuration available as field upgrade

Specifications

Substrate and performance	Max format (portrait)	760 x 1060 mm	30 x 42"
	Min format (portrait)	500 x 700 mm	19.7 x 27.5"
	Corrugated	Flutes F B C, double wall EE Microflute range 1-4 mm	0.03 – 0.15''
	Maximum throughput (s/h)*	4000 B1
Pile data	Height of feeder pile, inc. pallet	1.1 m	3.6 ft **
	Height of delivery pile, inc. pallet	1 m	3.3 ft 1.4m	4.5 ft***
Technical data	Net cutting area	740 x 1050 mm	29 x 41"
	Gripper margin	15 mm	0.59"
Machine dimensions & weight	L x W x H	8.8 x 2.15 x 2.1 m	18.9 x 2.3 x 2.7 m** 28.9 x 7 x 6.7 ft	62 x 7.5 x 9 ft**
	Net weight (tons)	8,000 kg	17,300 kg** 17,637 lb	38,139 lb**
OPTIONAL MODULES		
	HIDS, Highcon Integrated Digital Stripping	Option
	Advanced Registration	Option
	Variable Data Cutting	Option
	Extractor	Option
	Nonstop feeder, stacker, waste removal	Option
	CAD Light Editor	Included

*Depends on layout imposition and substrate **Bottom feeder in nonstop configuration
***Nonstop configuration