



Dieless digital cutting and creasing for folding carton packaging

KONGSBERG XE10

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Fast and accurate dieless finishing of folding cartons

The Kongsberg XE10 is designed to provide a fast, high quality solution for sample making and short run production of folding cartons.

Assisted by a rack-and-pinion X/Y drive with precise motion control, a fast servo system and comprehensive tool set, the Kongsberg XE10 tables deliver high operational speed and precision.

The Kongsberg XE table can process a wide range of packaging materials: folding carton, single flute corrugated board, and synthetic materials such as polypropylene, to name a few. The Kongsberg XE10 table also provides an excellent solution for the production of varnish blankets for offset printing.

The Kongsberg XE10 has a space-efficient, small footprint. Its work area measures 800 x 1100 mm / 31.5" x 43.3". It can accept materials as large as 1000 x 1500 mm / 39.4" x 59.1"



TOOL STATIONS



Static Knife tool

The Static Knife tool can cut through thin, rigid material such as carton board, polypropylene and polyethylene. Different knife blade adapters are available.



HiForce Knife tool

The HiForce Knife tool is a general purpose tool suitable for cutting a wide range of materials. As the name indicates this tool can apply a higher tool pressure than the Static Knife tool. The tool is prepared for a wide range of knife blades.

A pressure foot is included to reduce material tear and also to keep the material down as the knife is extracted.



Crease tool

Along with the 15 and 26 mm wheels, it's easy to crease folding carton and corrugated board. The Kongsberg XE10 offers a maximum vertical tool force of 200 N (45 pounds), which means that even the most rigid boxboard materials can be sufficiently creased.



Psaligraphy Knife tool

The Psaligraphy Knife tool is made especially for cutting fine and intricate details in paper and folding carton. A user friendly spring loaded detachable plastic foot prevents lifting, moving and destroying the material while cutting. Application examples are greeting cards, invitation cards, promotional items, folding carton samples...



VariCut tool

The VariCut tool is helpful when you want partial and complete cuts of folding cartons and varnish blankets. With servo-controlled cutting depth accuracy, the VariCut tool can be used to micro-cut with exceptional depth precision – and cut completely through the material – on the same job. The tool is equipped with a base that hovers above the material, providing a reference check for the cutting depth.



VibraCut Knife tool

With the help of an electric motor, the VibraCut knife tool oscillates back and forth to cut single flute corrugated board up to, and including, C-flute and other fibrous materials of similar thickness. The tool features a removable weighted foot that provides additional pressure on the material, assuring a clean cut on boards with high recycle content.



HiFrequency VibraCut Knife tool

The HiFrequency VibraCut Knife Tool is a special variant of the VibraCut Knife tool for cutting a lot of different materials, such as foam board and corrugated with high-recycled content. It runs at twice the frequency and four times the amplitude of the standard VibraCut Knife tool. These properties, along with a more powerful motor, enable cutting of heavily recycled board at efficient speed. To reduce material tear and also to keep the material down as the knife is pulled out, a detachable pressure foot is included.

TECHNICAL SPECIFICATIONS

	Kongsberg XE10
Work area	800 x 1100 mm 31.5 x 43.3 in.
Maximum sheet size	1000 x 1500 mm 39.4 x 59.1 in.
Overall dimensions w/ front panel	1630 x 1580 mm 64.2 x 62.3 in.
Weight	175 kg 385 lbs
Maximum speed ⁽¹⁾	64 m/min - 1066 mm/sec 42 IPS
Maximum acceleration ⁽¹⁾	12 m/s ² 1.2 G
Servo resolution	< 0.005 mm < .0002 in.
Repeatability	± 20 µm ± .00078 in.
Maximum horizontal cutting force	200 N 45 lbs force
Maximum vertical tool force	100 N 25 lbs force
Traverse clearance ⁽²⁾	20 mm .787 in.
Control software	XE Guide
Operator safety	Included is the DynaGuard Safety System, which protects the operator and bystanders from potential machine hazards. In addition, the machine is equipped with an emergency stop button and a warning light that is lit as long as the servos are powered.

(1) Maximum speed and acceleration measured along the resultant of the X and Y-axis velocity vectors

(2) Measured without cutting underlay

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