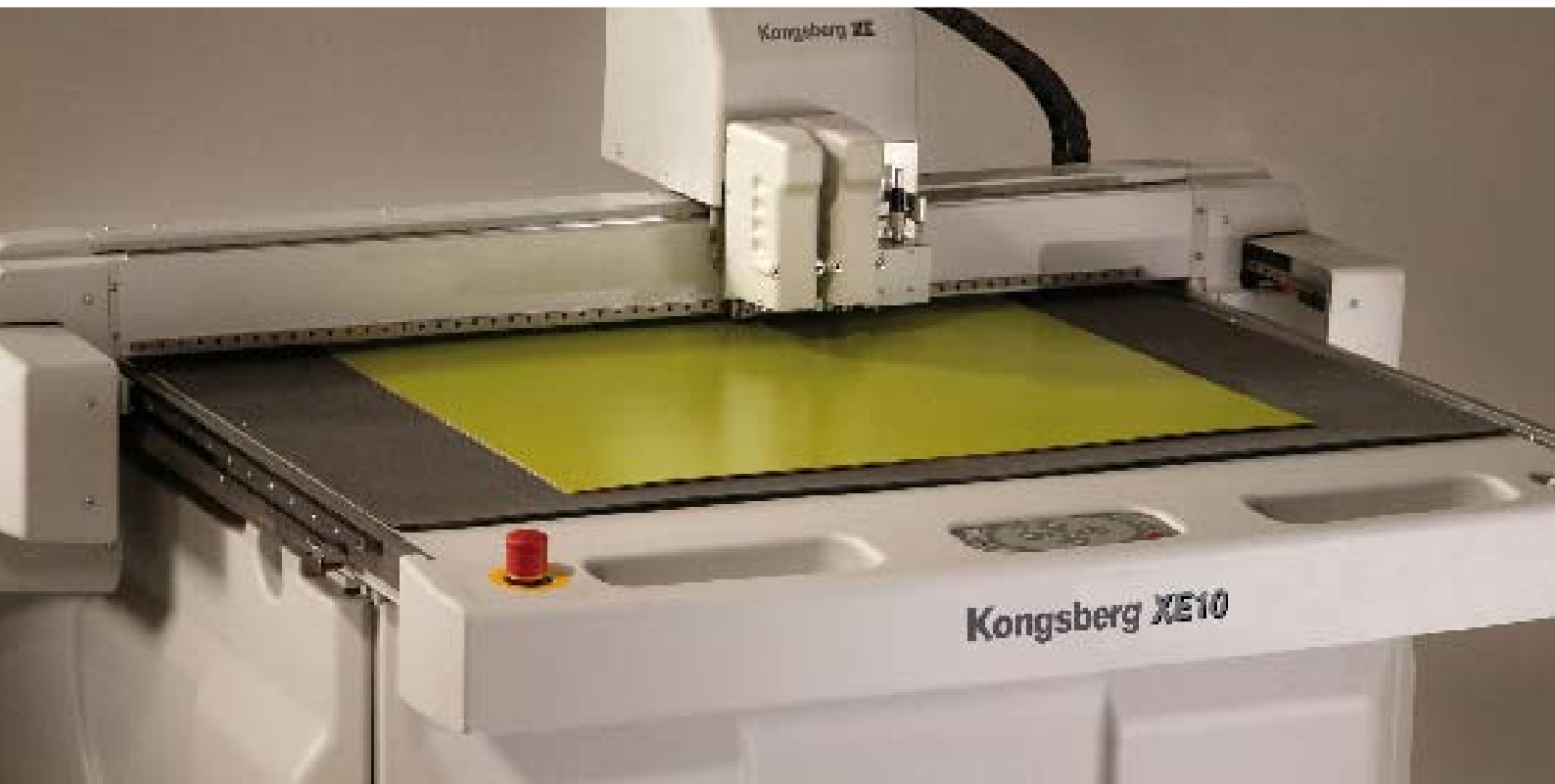


Dieless digital cutting and creasing tables for folding carton packaging

The Kongsberg XE10



Kongsberg XE10

Fast and accurate dieless finishing of folding cartons

The Kongsberg XE10 is Esko's completely new, smaller format platform, designed to provide a fast, high-quality solution for samplemaking and short-run production of folding cartons. Building upon their expertise with the Kongsberg XL large format digital finishing systems for corrugated and other packaging materials, Esko has incorporated a number of features from the architecture of its widely popular digital cutting and creasing tables. With the Kongsberg XE10, users can expect a digital finishing solution that outclasses others in both productivity and precision. Assisted by a rack-and-pinion X/Y drive with precise motion control, a new, fast servo system and completely new tool set, the XE10 can deliver high operational speed and precision—with easy operation.

The Kongsberg XE10 has a space-efficient, small footprint. Its work area measures 31.5" x 43.3" / 800 mm x 1100 mm. It can accept materials as large as 35.4" x 47.2" / 900 mm x 1200 mm.

The versatile solution from the industry leader of digital cutting and creasing tables for packaging.



The Kongsberg XE10 is a small-format dieless digital table for cutting and creasing folding cartons. It is based on the technology and versatile architecture of the Esko Kongsberg XL tables, noted for their power and durability.

Flexible solution

Today's packaging design and production departments need a fast solution for samplmaking and short-run production. The combination of increasingly tighter deadlines and budget pressures, along with more variation and localization of packaging projects, demands a speedy and flexible finishing solution.

The Kongsberg XE10 has been developed to deliver just that. Because no manual cutting nor expensive dies are needed, packaging runs from one to several thousand can be finished fast, with professional results.



Wide range of materials

The Kongsberg XE10 can process a wide range of packaging materials: folding carton, single flute corrugated board, and synthetic materials such as polypropylene, to name a few.

Varnish blankets

The XE10 table provides an excellent solution for the production of varnish blankets for offset printing. Because the Kongsberg XE10 can produce partial cuts with exact depths—along with perfect registration for the printing press—it is cost-efficient for the preparation of spot varnishing blankets for commercial print work and folding carton packaging.

Adapted workflow

Esko also provides the entire workflow to process packaging design data for output on a cutting table—as well as on printing plates or digital presses. Structural design and one-up editing, sheet preparation with repetitions and marks, workflow automation, screening and color management can all be controlled with Esko's Scope, its integrated suite of packaging software.





Tooling system

The Kongsberg XE10 features an entirely new tooling system which has been modified to satisfy folding carton requirements - and is fast to install and maintain. Its lightning-fast motion, combined with superb accuracy, increases finishing productivity and quality.

The tooling system was designed for fast, trouble-free tool exchanges or replacement. Its two configurable tool positions easily plug in electrical and automatic tool identification connections.

Tool stations

A wide assortment of Kongsberg XE10 tools can finish folding carton and polyester materials, as well as substrates as thick as single flute corrugated.

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.



Crease tool

Along with the 15 and 26 mm wheels, it's easy to crease folding carton and corrugated board. The 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.



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 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.



Technical specifications

Work area	31.5" x 43.3" 800 x 1100 mm
Maximum sheet size	35.4" x 47.2" 900 x 1200 mm
Overall dimensions (LxW)	64.2" x 62.3 " 1630 x 1580 mm
Weight	385 lbs 175 kg.
Maximum speed ⁽¹⁾	64 m/min - 42 IPS
Maximum acceleration ⁽¹⁾	12m/s ² - 1.2G
Servo resolution	< .0002" < 0.005 mm
Repeatability	± .00078" ± 20 µm
Addressable increment size	.00004" 0.001 mm
Maximum horizontal cutting force	200N – 45 lbs. force
Maximum vertical tool force	200N – 45 lbs. force
Traverse clearance ⁽²⁾	.787" 20 mm
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.

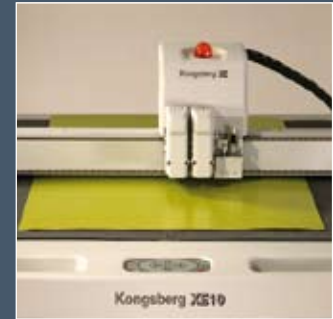
(1) Maximum speed and acceleration measured along the resultant of the X and Y-axis velocity vectors.

(2) Measured without cutting underlay.

The XE10 table equipped with the MGE *i-cut*[®] vision system is the *i-XE10*, a cutting solution for specialty graphic and screen print shops. The *i-XE10* comes with adapted tools, speed and automation features suited for producing decals, labels and signs on flexible materials such as vinyl.

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