

# Productive short run finishing

## Control in the dynamic production environment



Kongsberg Cutting Tables

# Keeping control in short run production

Companies that specialize in signage, display and short runs packaging production are looking for more throughput and more control over their entire process. Esko helps companies all over the world to meet sharper customer deadlines while avoiding risks and realizing higher operating margins. Files waiting in a mailbox, idle production equipment,

quality issues and lack of shop floor communication... they all lead to misalignment and add a lot of waste.

Companies are looking for lean production: maximizing value and eliminating waste and Esko's modular shop floor solutions offer just that.



Kongsberg cutting tables and Esko's preproduction software are optimized for stand-alone use. Integrated, however, they give additional advantages in customer communication, file flow, shop floor management and equipment efficiency.



**1. Visual job progress** in *i-cut* Production Console. Large icons for distance view, job and batch countdown. Active communication ensures full production control from anywhere on the shop floor.

**2. Visual workflow control.** Device Manager provides Job estimation, planning, tracking and reporting. Operators can manage and control the job queues.

**3. Shared resources** in *i-cut* Production Console. Information from design and production files is used to automatically adjust the **table setup, the cutting sequence and the correct tools**. The shared resources technology removes a complex and time consuming manual task and bring consistency to production.

**4. Structural design workflow.** ArtiosCAD, the world's leading software for packaging and display design communicates with smart metadata allows the Kongsberg cutting table to optimize for cut speed and quality.

**5. Prepress workflow.** Powerful preflight and nesting by the easy to use *i-cut* Suite software. Dedicated prepress software helps optimize press efficiency, saves operator time and reduces errors, thus avoiding that expensive materials are wasted because of rejected results.

**6. Design to ship.** Integrated Cape palletization ensures easy, optimized packing, stocking and shipping.

# Kongsberg C series for performance

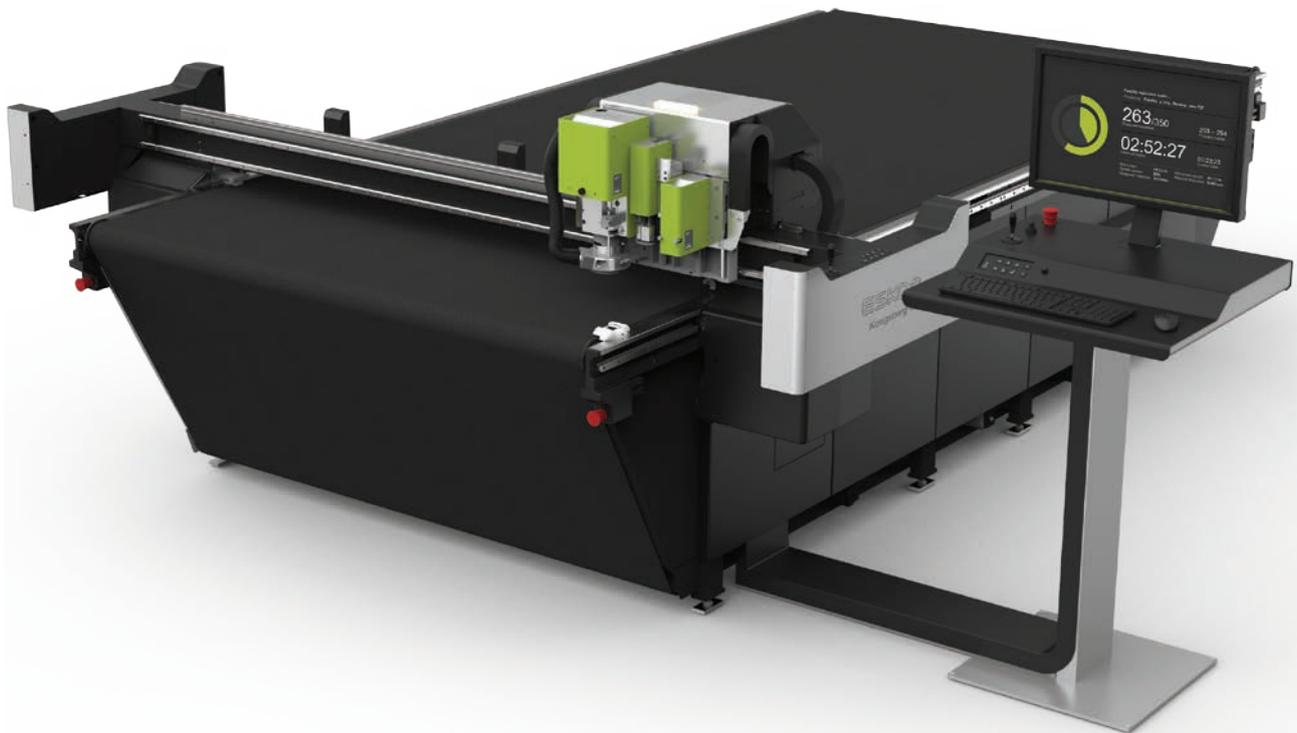
The Kongsberg C series of digital cutting tables is specifically designed to operate continuously in a 24/7 production environment.

These cutting tables excel in producing corrugated packaging, POP products and other product displays made from rigid materials.

To accommodate 24/7 production, the Kongsberg C is equipped with features like a metal composite tabletop and tabletop level mapping, the most sophisticated motion control system in the industry, including steel rack and pinion drive and heavy duty tool positions for high force milling, cutting and creasing.

## Speed & acceleration

The Kongsberg C sets new standards, pushing the limits of the term short run production by offering tremendous speed (100 m/min – 66 ips) and acceleration (up to 1.7 G) and ultra-fast tool movements. The cutter's robustness enables knife cutting of most materials at top speed.



Kongsberg C24 for Sign Production with conveyor. Kongsberg C is available as 24, 44, 60 and 64. For more technical specifications, please visit [esko.com/kongsberg](http://esko.com/kongsberg).

# Kongsberg X series for **versatility**

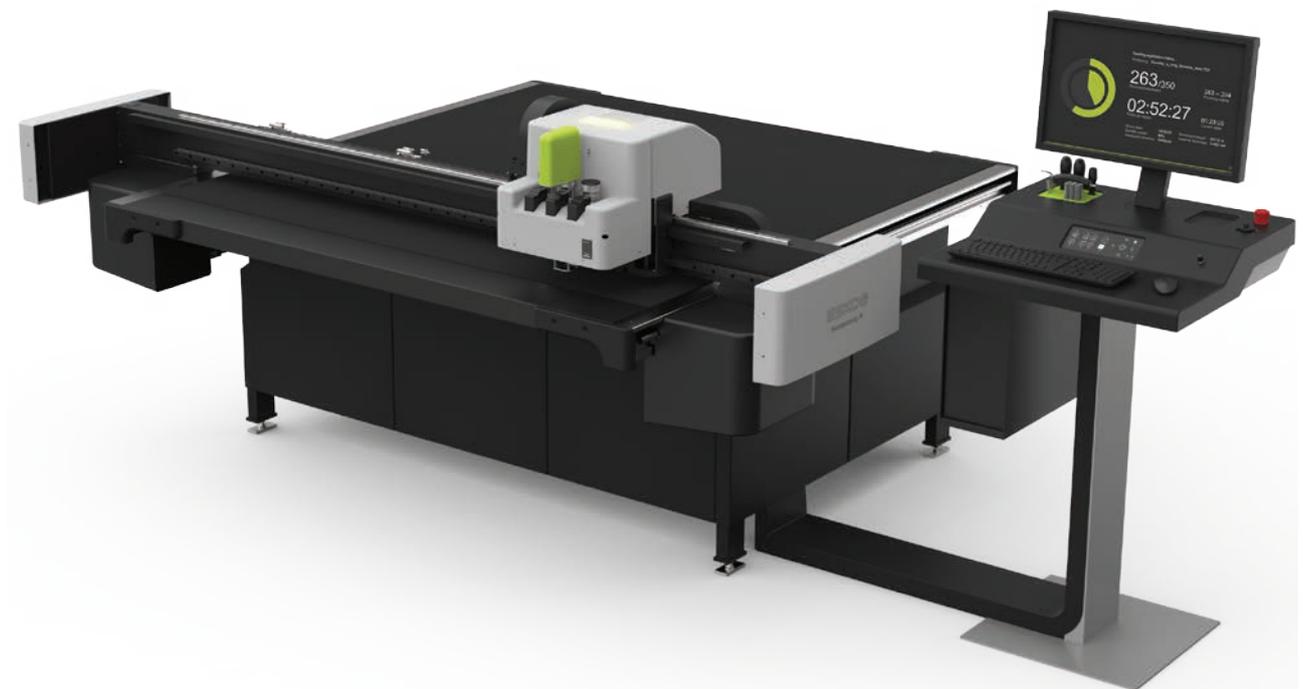
The Kongsberg X offers versatility for a wide range of cutting applications. Whether your focus is 2D or 3D; packaging, signs or displays.

The Kongsberg X cutting table evolves with the needs of your company. You can upgrade and add more cutting, creasing and milling tools as the business needs develop. The Kongsberg X series makes sure you never have to say no to a finishing job, now, and in the future. The Kongsberg X is perfect for any job or application.

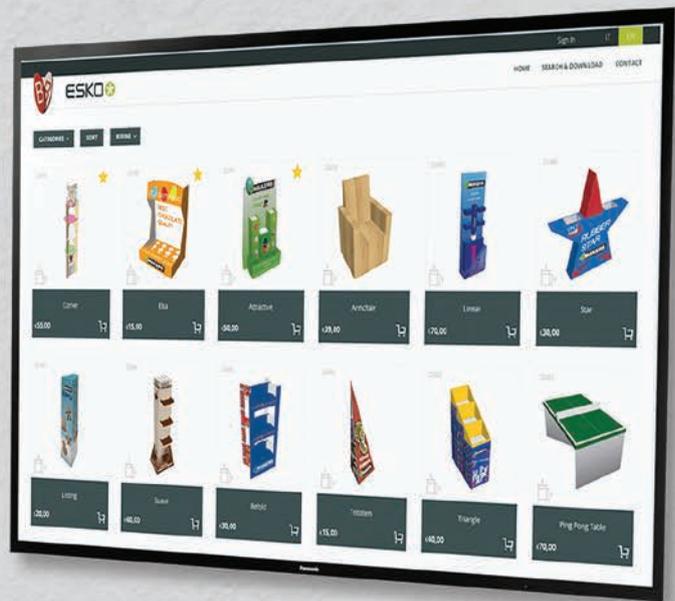
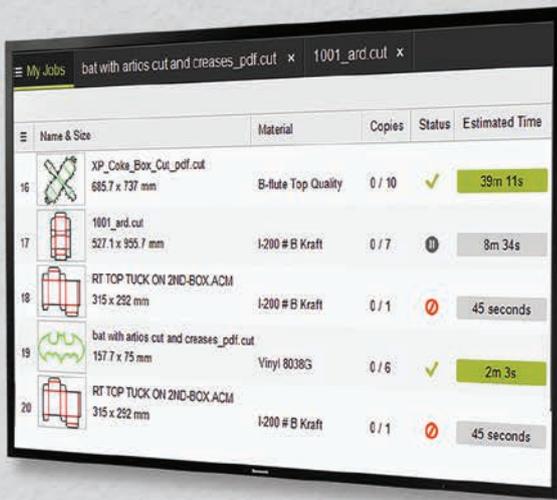
## Introducing: Kongsberg Starters

The Kongsberg X Starter is a cutting table that offers value, reliability, precision and ease of use at an attractive investment level.

The Kongsberg X Starter cutters come in standard configurations that allow entry level sample making, signage and display production. The cutting table can easily be upgraded in terms of speed and tooling.



Kongsberg X for Packaging Production. The Kongsberg X is available in different style kits and sizes from 20 to 48. For more technical specifications, please visit [esko.com/kongsberg](http://esko.com/kongsberg).



## Kongsberg Operate

### **i-cut Production Console**

*i-cut* Production Console is the powerful yet intuitive front-end for Kongsberg cutting tables.

The straightforward user interface helps operators get the most out of the Kongsberg tables while optimizing day to day production. MyJobs list with links to all jobs waiting to be produced.

- Estimation of cutting time.
- Tracking of job progress (job status, countdown, etc.).
- Easy job setup, factory or customer defined.
- MultiZone Production.
- Built in parameters to optimize cut, crease and milling quality
- Creasing depth control (Flute / grain dependent)
- Add nested layouts for mixing of designs or step & repeat
- Automated curve optimizations (Metadata/ ArtiosCAD integration)
- Tools for interactive curve editing to optimize cutting speed and quality.
- Advanced milling support

### **ArtiosCAD Online Display Shop**

ArtiosCAD Display Store allows anyone to offer displays. Businesses that have the production equipment to make POP displays but lack the design capabilities can profit from this service. The shop contains ArtiosCAD files optimized for cutting with a Kongsberg table. A mounting video is included with each design. Never say no to a request!

### **QuickBox**

QuickBox allows operators to make any standard box in 3 steps. It's perfect for basic structural designs or to make a tailor made shipping box for your sign or display products.

# Kongsberg Automate: boost production with **automation**

Kongsberg cutting tables are designed for flexibility and throughput. There are many ways to automate certain parts of the finishing workflow, no matter what material you need to process.

## Sheet automation

The Kongsberg *i*-BF feeder adds more productivity. The *i*-BF feeds corrugated, paper card boards and plastics quickly and accurately from a pallet with 3 feed cycles per minute in a continuous flow of material moving without interruption.

There's no need for intermediate stacking, scissors lifts, work tables... You can use your own process pallets, or even the generic pallets your boards were shipped on.

## Roll automation

Roll automation is possible as a standalone solution, or as part of sheet & roll automation unit tailored to meet an increased production volume.

## Multizone production

Multizone production allows you to load two sheets and to double the production capacity on your Kongsberg cutting table. Multizone technology keeps the cutting table running continuously without expensive automation add-ons.

With zone control at your fingertips vacuum sections can be turned on and off individually or automatically based on position of job.

## Robotic automation brings new opportunities

Robotic material handling brings advantages to the shop floor. It loads material directly from a pallet and runs unattended for as long as you want it to. The grippers are able to work with wide range of materials and the cutting uptime is 100%. The robotic footprint flexibility allows automation for different production methods.



Sheet automation with the Kongsberg *i*-BF feeder.



Robotic automation brings advantages to the shop floor.

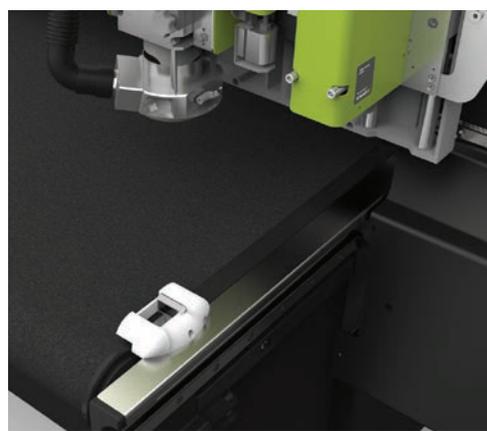
# Kongsberg Tools

The two series of Kongsberg cutting tables come with a wide range of tools for those demanding, versatile production environments.

## Auto Tool Adjust

Auto Tool Adjust is a unique technology providing automatic tool calibration using image processing. This feature makes sure that the tooling always runs with perfect alignment, which is a prerequisite for producing high quality output at high processing speeds.

Auto Tool Adjust is automated, which means that even the most novice operator can produce top output quality without losing time or making errors.



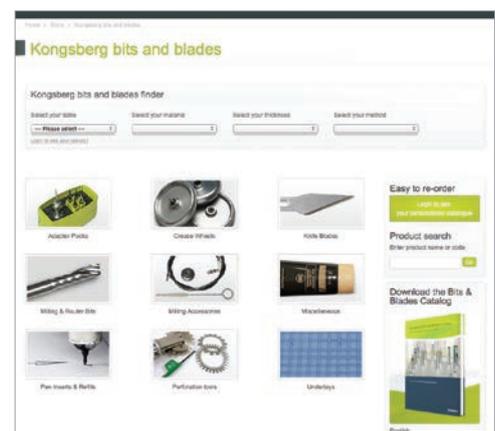
## Buy the right bits and blades for your cutting table

The easiest way to find the right bits and blades for your Kongsberg cutter is through the Esko Store.

With an intelligent bits & blades finder, you can be sure to order the right tool for the right material, for any application! [www.esko.com/store](http://www.esko.com/store)

## New tool: CorruSpeed tool

The CorruSpeed tool is a new high impact tool for corrugated materials; it cuts materials up to BC flute without oscillating. This tool enables cutting corrugated at maximum speed and acceleration in most board qualities.



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