KONGSBERG C SERIES

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The **most productive** cutting table for packaging, wide format signage and display production

Ball & Doggett

KONGSBERG
Precision Cutting Systems

The highest performance, delivered by the industry's most solid platform

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The Kongsberg C Series is built for the highest performance, redefining the possibilites of digital finishing.

The Kongsberg C offers speed (100 m/min - 66 IPS) and acceleration (up to 1.7 G) with quick and precise tool movements, making high quality digital production possible, even under the tightest deadlines.

The Kongsberg C cutting table delivers an iconic performance that is made possible by state of the art, rock solid engineering. The cutting table utilizes aerospace technology, combining an aluminum composite tabletop, a rack & pinion drive system and dynamic table mapping. These features all ensure that the table provides the greatest cutting accuracy and consistency.

Carbon composite traverse

The Kongsberg C60, C64 and C66 tables have a carbon composite traverse, which makes it possible to combine speed with quality, even while spanning 3.2 meter.

The extreme rigidity of the carbon traverse allows high speed, accuracy and a heavy payload, even when working on the most demanding materials.

Kongsberg C Edge

Exceptional quality at a remarkable price.

Step up your productivity with its high speed (75 m/min) and acceleration (1 G), and astound your customers with impressive, high quality results and fast turnarounds.

As your company grows, the Kongsberg C Edge evolves with you and can be easily upgraded in both speed and acceleration.
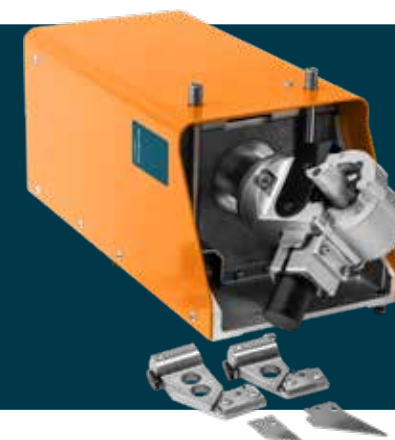
1 Heavy-Duty Tool Position

- Heavy-Duty Tool Unit:
  - › *Large-size crease wheels for recycled liners and heavy duty boards*
  - › *V-notch inserts for triple wall corrugated, honeycomb boards, and solid board*
  - › *50 kg of down force for the best creasing and perforating results*
  - › *Straight blade knife inserts for long, straight cuts in heavy-duty boards*
  - › *Crease blade inserts for polypropylene boards*
- High-Power Milling Unit
- Foam Cutting Unit
- Dual Heavy-Duty Tool Unit (optional):
  - › *Combines two independent wheels in one heavy-duty unit. This unit makes it possible to cut, crease and perforate a single job without the need to change tools*
- VariAngle Unit [1]

2 Fast Tool Position

- High-Frequency VibraCut, VibraCut and CorruSpeed tools:
  - › *Reciprocating and static knife tools for corrugated boards, ranging from micro flute to triple wall, paper core boards, foam boards, and thin foam panels*
- Hi-Force Knife, Psaligraphy and RM Knife tools:
  - › *Static knife tools for compact materials; paper, folding carton, solid boards, and synthetic sheets such as PVC, polypropylene, polycarbonate, etc.*
- PressCut tool:
  - › *Knife tool for adhesive vinyl, with programmable blade pressure*
- RotaCut tool:
  - › *Motor-driven, rotating knife tool for textile materials*
- Braille tool:
  - › *For making braille signs. Works together with the milling tool*

3 Insert Position

- Drill Tool
- Ballpoint Pen Tool
- Fiber Tip Pen Tool

Redefining throughput with high performance tooling

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The Kongsberg C performance range works with a wide variety of optional tool units. Multiple tool combinations are available during production, depending on the materials you want to process.

The tooling system includes a material thickness probe and an optional camera for registering printed and unprinted material. The Kongsberg C performance tooling increases throughput and quality.

[1] The VariAngle Unit

The unique VariAngle Unit is a V-notch cutting tool that cuts at angles ranging from 0° to 60°.

- No need for operator intervention. It's not just **safer**, but also a **huge time saver!**
- Unlocks **new creative potential** for designers of POP displays.

Increased throughput by smart automation

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Sheet automation

The Kongsberg Feeder & Stacker is an easy to use pallet-to-pallet material handling solution. With a stack height at 915 mm (36 in.) and quick automatic load cycles it's the optimal solution for production in all typical packaging and display materials. Combined with he Underside Camera, you are assured of full registration on every sheet leaving no room for error.

We understand that quality is paramount throughout your production. The Kongsberg board feeder eliminates the chance of damage encountered with manual handling, and ensures that the print moves to the cutting table with precision and care.

Barcode production

Ensures consistent production, final quality and is especially recommended when several unique jobs are lined up. The camera will read the barcode automatically and apply the correct tooling and production settings.

› *QR*
› *Data Matrix*
› *Code39*
› *Multiple stacks support*
› *MultiZone support*

MultiZone production

MultiZone production allows you to load two sheets at the same time and maximize the production capacity on your Kongsberg cutting table without expensive automation add-ons.

The MultiZone Operation Mode enables the operator to prepare one zone while the table processes the other, with automatic change-over when one zone is completed, vastly increasing overall productivity and throughput.

An optional zone control panel can be mounted on the table's side cover, providing a time-saving way of acknowledging that the zone is ready for production and also manual vacuum hold-down control.

Robotic automation brings a new world of opportunities

Robotic material handling brings cutting edge industrial automation to the shop floor. The robotic arm loads and unloads material automatically with perfect alignment to support pallet-to-pallet production and runs unattended.

The grippers are able to work with a wide range of materials and the cutting uptime is maximized to its full potential.

Cells can be fully configured to your needs. Future expansion is always an option without the need for heavy re-investment when your business demands more.

The Motorized Roll Feeder for soft signage

The roll feeder ensures consistent feeding of material onto the table's conveyor belt, even if the roll is imperfectly rewound after printing. With capacity for large, heavy rolls and handling mechanisms for challenging substrates, the motorized roll feeder is vital to achieve uninterrupted production with high quality output. Combined with our Take Up Unit true roll-to-roll production can be fully supported.

Technical specifications

	C20	C24	C44	C60	C64	C66	
Work area	1680 x 1430 *66 x 56*	1680 x 3200 *66 x 126*	2210 x 3200 *87 x 126*	3210 x 1600 *126½ x 63*	3210 x 3200 *126½ x 126*	3210 x 4800 *126½ x 189*	mm *in.*
Work area, MultiZone production, standard table top	n/a	1680 x 1450 *66 x 57*	2210 x 1450 *87 x 57*	n/a	3210 x 1600 *126½ x 63*	3210 x 2210 *126½ x 87*	mm *in.*
Max. material size, without conveyor feed	1740 x 1900 *68 x 75*	1740 x 3700 *68 x 146*	2270 x 3700 *89 x 146*	3330 x 2125 *131 x 83½*	3330 x 3730 *131 x 147*	3330 x 5330 *131 x 210*	mm *in.*
Max. material width, with conveyor feed	1680 *66*	1680 *66*	2210 *87*	3210 *126½*	3210 *126½*	3210 *126½*	mm *in.*
Overall dimensions, incl. workstaton	3600 x 2300 *109 x 91*	3600 3900 *142 x 154*	4100 x 3900 *161 x 154*	5100 x 2320 *201 x 91½*	5100 x 3920 *201 x 154½*	5100 x 5520 *201 x 217*	mm *in.*
Overall dimensions, excl. workstaton	2760 x 2300 *109 x 91*	2760 x 3900 *109 x 154*	3260 x 3900 *128 x 154*	4260 x 2320 *168 x 91½*	4260 x 3920 *168 x 154½*	4260 x 5520 *168 x 217*	mm *in.*
Weight	775 *1710*	1010 *2230*	1280 *2820*	1010 *2230*	1945 *4290*	2715 *5985*	kg *lbs*
Max. speed	100 m/min - 1666 mm/sec - 66 IPS						
Max. speed (Edge)	75 m/min - 1250 mm/sec - 49 IPS					n/a	
Max. acceleration	17.2 m/s² *1.72 G*		16.5 m/s² *1.65 G*	15.7 m/s² *1.57 G*			
Max. acceleration (Edge)	10 m/s² *1 G*					n/a	
Vacuum sections	4	8		4	8		
Traverse clearance, excl. cutting underlay	70 *27½*						mm *in.*

Max. sheet sizes for automated sheet handling with sequential or single sheet production:
› C64 and C66: 3210 x 2200 mm *(126½ x 86⅝ in.)*

Max. sheet sizes for automated sheet handling with simultaneous production:
› C64: 3210 x 1600 mm *(126½ x 63 in.)*
› C66: 3210 x 2200 mm *(126½ x 86⅝ in.)*

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