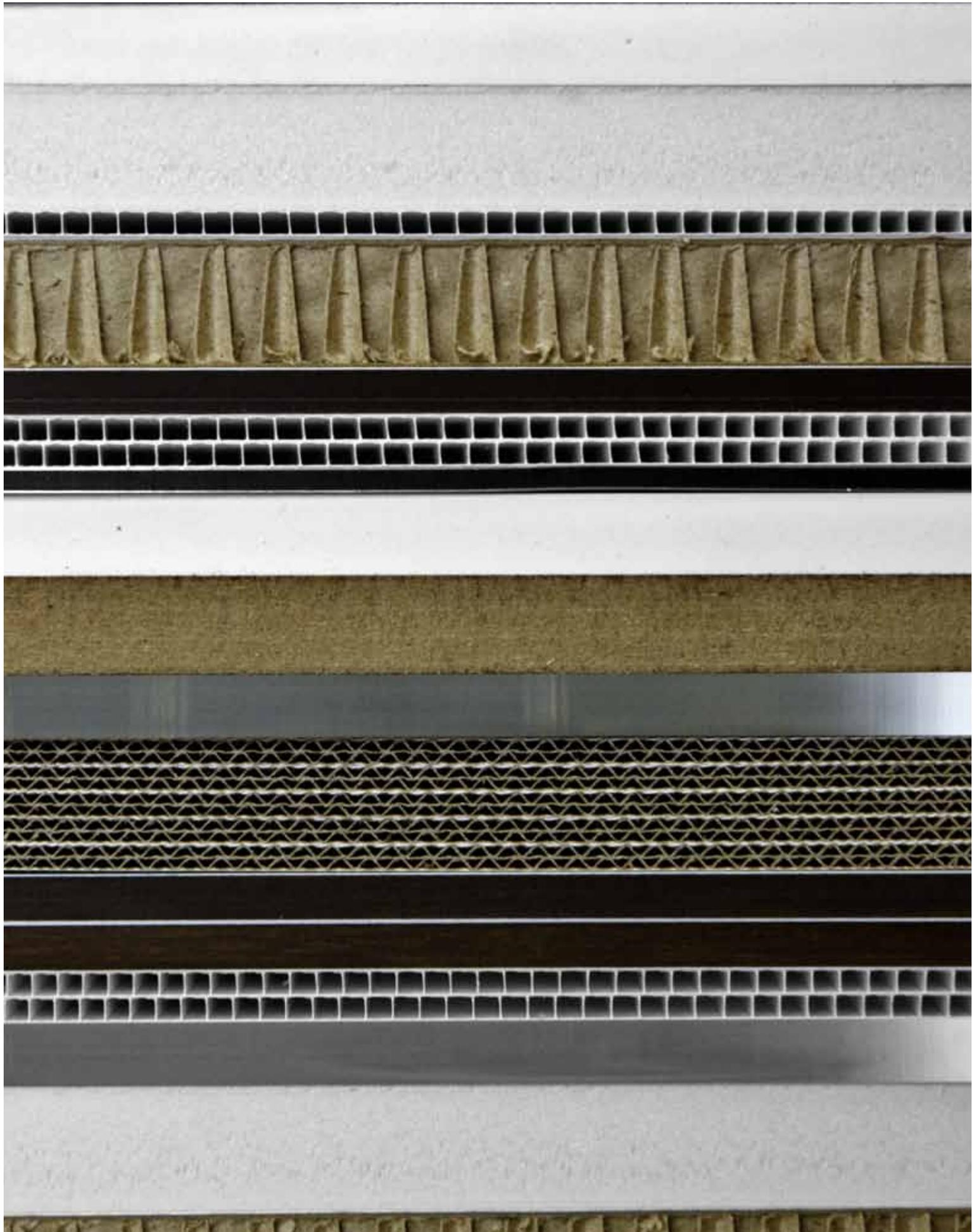


The new standard for digital finishing

Kongsberg XP Series





The Kongsberg XP

A superior digital cutting table for all applications

The Kongsberg XP introduces a completely new standard for digital cutting tables. It is designed so solidly that it provides accurate handling of even the most challenging materials.

Its durable construction enables the XP table to provide full time production, 24/7. The finishing device is no longer the bottleneck in your production.

24/7 production power unleashed!

The Kongsberg XP offers a radically new level of productivity and throughput. It was made especially for handling the combination of corrugated board and other rigid materials used in packaging, POP products and product display.

An extensive array of available tools matches the wide range of materials that can be used.



The Kongsberg XP24, shown with the conveyor feed option for automatic loading of roll- or sheet-based materials



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What do you want to produce today?

Are you going to produce corrugated boxes today? Or a number of signs or POP displays? Perhaps you are facing a complex job with different materials?

With the Kongsberg XP you are ready to run jobs from a single unit to a full scale production with up to a 1000 units in a day. The XP's production power and quick change of tools ensures on time delivery, every time, even for the complex jobs.

The throughput delivered by Kongsberg XP represents a new standard for digital finishing. In fact, no other cutting table on the market can even compete. For corrugated short runs digital finishing now challenges the throughput on manual clam shell die cutters.

By the way, throughput is more than the actual cutting speed. It also includes job preparation, vertical speed, idle time, and the speed of tool changes.



The Kongsberg XP digital finishing table

The Kongsberg XP is a new breed of table. It is the logical next step in the Kongsberg evolution: it's twice as fast as the Kongsberg XL and XN and it is designed to keep on working in the most demanding production environments.

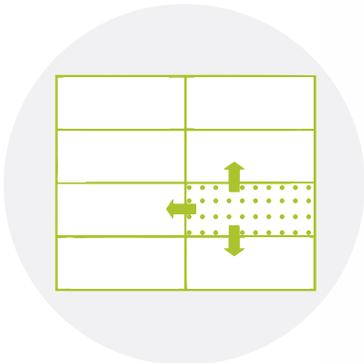
Rock solid construction ensures production for years to come.



The construction is built for continuous 24/7 operation (see the solid construction of the traverses table connection for instance).



The optional i-cut vision system guarantees a perfect match between the cutting contour and the printed graphics.

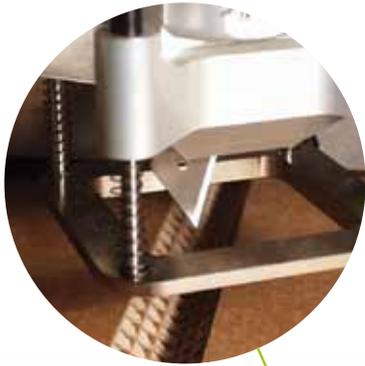


Flexible vacuum zones, depending on the material you're finishing.



The XP is the fastest table in its kind: top speed 100 m/minute.





Solidly built tools



Changing tools is fast and easy.



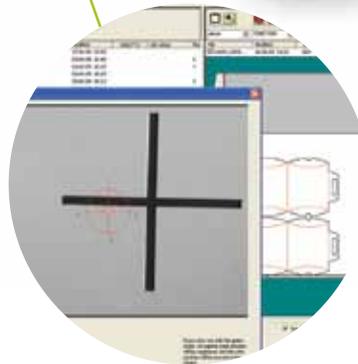
The tooling system includes a wide range of tools.



The ergonomic workstation.



The Automatic Tool Leveling is a pressure sensitive pad that accurately and automatically calibrates the vertical operating level of all the Kongsberg XP tools.

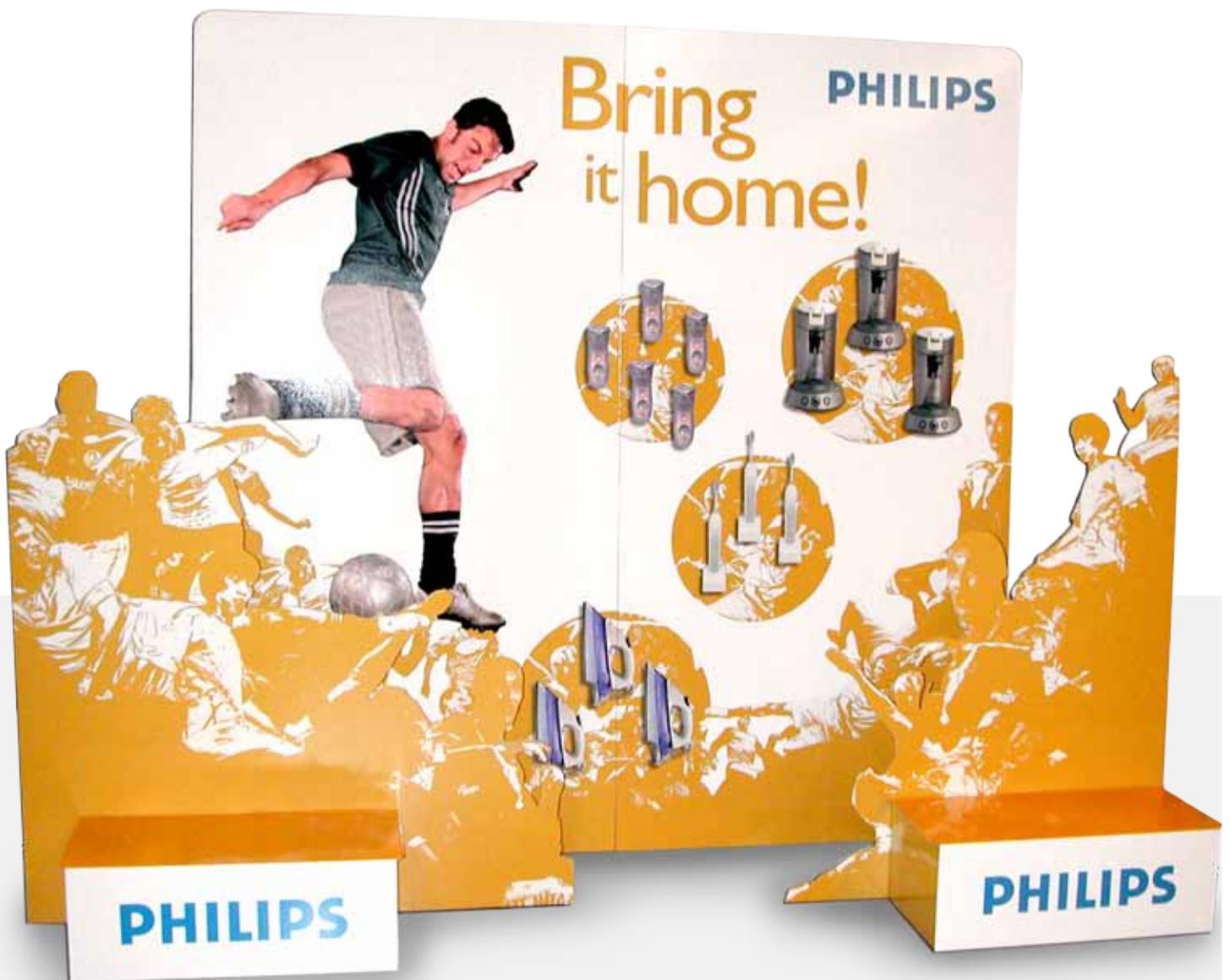


The Automatic Registration System detects printed registration marks at the edges of the printed graphics.

The XP Tooling system: extremely versatile

Corrugated converting, POP and signage demand the ability and the versatility to process a wide array of materials; the Kongsberg XP tools handle them all with ease and accuracy.

The XP table excels in processing a wide variety of materials. These materials range from single flute corrugated and foam over heavy duty corrugated to MDF, plexi or aluminum. The Kongsberg XP comes equipped with a wide range of tools to make this versatility possible.



Solutions for milling

Two different tooling options for milling cover all needs ranging from light-duty jobs to long sessions with heavy-duty materials where high throughput is key.

The **High Speed Milling Unit (HSMU)** features a 1 kW milling spindle running up to 60.000 RPM. The air-cooled milling bit assures edge quality during high-speed milling of acrylics and other synthetics. The switch-operated bit exchange eliminates the need for hand tools.

The **High Power Milling Unit (HPMU)** offers the same operating functions as the HSMU but is equipped with a super-strong, 3 kW water-cooled milling spindle delivering up to three times faster milling speeds. The high power spindle is a great choice for shops wanting to widen the bottleneck that routing jobs often presents. It offers additional robustness when running extended duty-cycles and when working extensively with heavy-duty materials such as thick sheets of acrylic, wood/MDF and aluminum composite material (ACM).

The HPMU can also use milling bits with 8mm shank diameter, enabling greatly improved efficiency and accuracy when processing materials ranging from 30-50mm in thickness.



Extraordinary throughput and speed

Several materials can be cut at top speed, 100 m/minute, and a displacement speed of 100 m/minute makes the XP more efficient even with materials that demand a reduced cutting speed.

There are many other parameters important for throughput: the lightening quick acceleration of 1.5G, which delivers top speed in about 8 cm (3.2"), the fast, switch-operated change of milling bits and intelligent tooling that automatically recalls setup parameters all contribute to increased productivity.



Tool changing and Automatic Tool Leveling

Changing tools is easy and very fast: changing a milling bit for instance is done in less than 20 seconds (including bit calibration). The system recognizes the tool units automatically, through electronic identifiers.

The Kongsberg XP has an Automatic Tool Leveling feature that calibrates the vertical operating level of all the Kongsberg tools.

Changing a tool or milling bit will cause an automatic tool measurement to ensure cutting depth remains correct. Changing knives, drills and milling bits no longer slows down production. It also becomes a lot safer because human errors are a thing of the past.

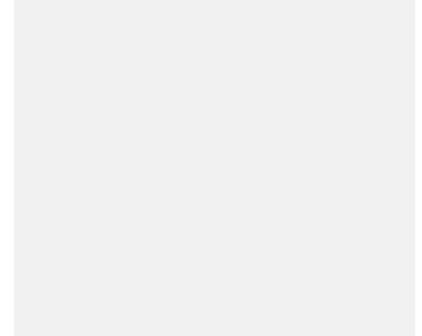


All the tools for state of the art displays

POP displays are a growing market representing unlimited opportunities. Challenge your creativity, impress your clients, and let Kongsberg XP do the job.

The POP display illustrated on the left is made out of printed Re-board easily cut on Kongsberg XP using one set of tooling:

- Use the camera system (*i*-cut or Automatic Registration System) to identify registration marks
- Use the V-notch tool to make fold lines and the drill tool to make holes
- Cut all edges with the High-frequency VibraCut tool and mount your POP



Ready for 24/7 automated production



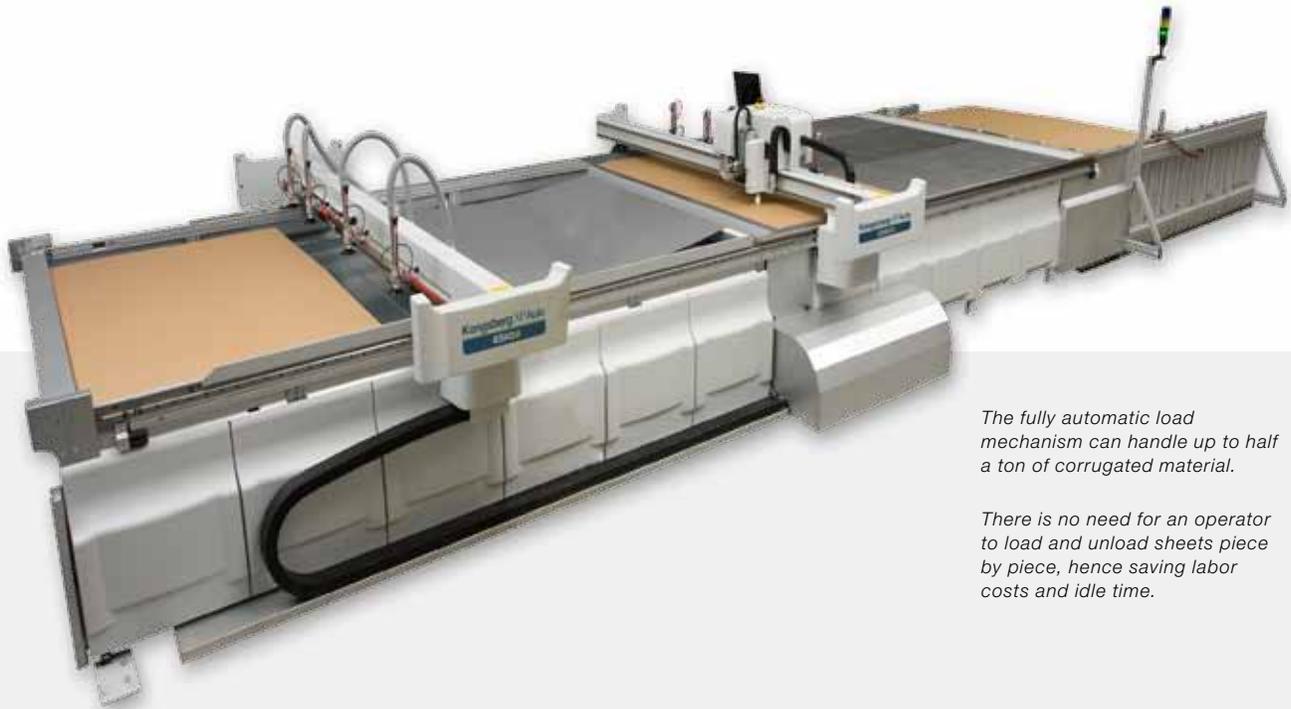
The Kongsberg XP is a work horse, designed to take on full-time production.

If your core business is visual communication, or signs and displays, you will benefit from the (optional) *i*-cut camera. Combined with a conveyor system and a roll or sheet feeder you can turn the XP into a semi-automatic production.

The Kongsberg XP Auto: fully automatic production

The XP Auto is capable of unsupervised production of printed or unprinted material. An advanced camera system ensures automatic registering to print marks facing down or up, providing tight print-to-cut accuracy.

In the integrated out-stack finished material is neatly stacked on a pallet, simplifying subsequent stripping. The out-stack offers pallet jack access while the machine continues to work.

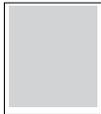
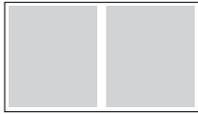
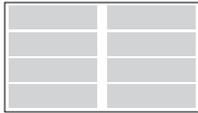
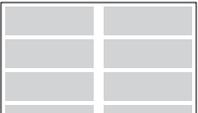


The fully automatic load mechanism can handle up to half a ton of corrugated material.

There is no need for an operator to load and unload sheets piece by piece, hence saving labor costs and idle time.

Powerful vacuum suction for firm and dependable material hold-down. Sensors ensure the complete process.

Technical specifications

	XP20	XP24	XP44
Work area	1680 x 1430 mm 66" x 56"	1680 x 3200 mm 66" x 126"	2210 x 3200 mm 87" x 126"
Maximum material size	1780 x 1800 mm 70" x 71"	1780 x 3600 mm 70" x 141"	2310 x 3600 mm 91 x 135
Maximum material size when conveyor	1680 mm x unlimited 66" x unlimited	1680 mm x unlimited 66" x unlimited	2210 mm x unlimited 87" x unlimited
Overall dimensions including workstation	3600 x 2100 mm 142" x 82.7"	3600 x 3900 mm 142" x 154"	4100 x 3900 mm 161" x 154"
Weight	450 kg 990 lbs.	600 kg 1325 lbs.	800 kg 1760 lbs.
Maximum speed	100 m/min - 66 IPS		
Maximum acceleration	15 m/s ² - 1.5 G		14 m/s ² - 1.4 G
Position accuracy (total work area)	±200 µm ±.0078"		±300 µm ±.0118"
Repeatability	±50 µ - ±.0019"		±60 µ - ±.0023"
Standard vacuum sectioning	1 zone 	2 zones 	2 zones 
Optional vacuum sectioning	4 zones 	8 zones 	8 zones 
Registration and compensation	<i>i</i> -cut Vision Pro or Automatic Registration System (ARS).		
Operator workstation	Revolving workstation attached to the XP frame with operator panel and space for tooling, controller PC, screen and keyboard.		
Available tool options	Reciprocating knife tools Static knife tools HeavyDuty Tool Unit module, with inserts for crease wheels, v-notch knives and vertical HD knives High-Power Milling Unit High-Speed Milling Unit Foam Cutting Unit Drill tool RotaCut Tool for textile material PressCut Tool for adhesive vinyl Pen plotting tools		

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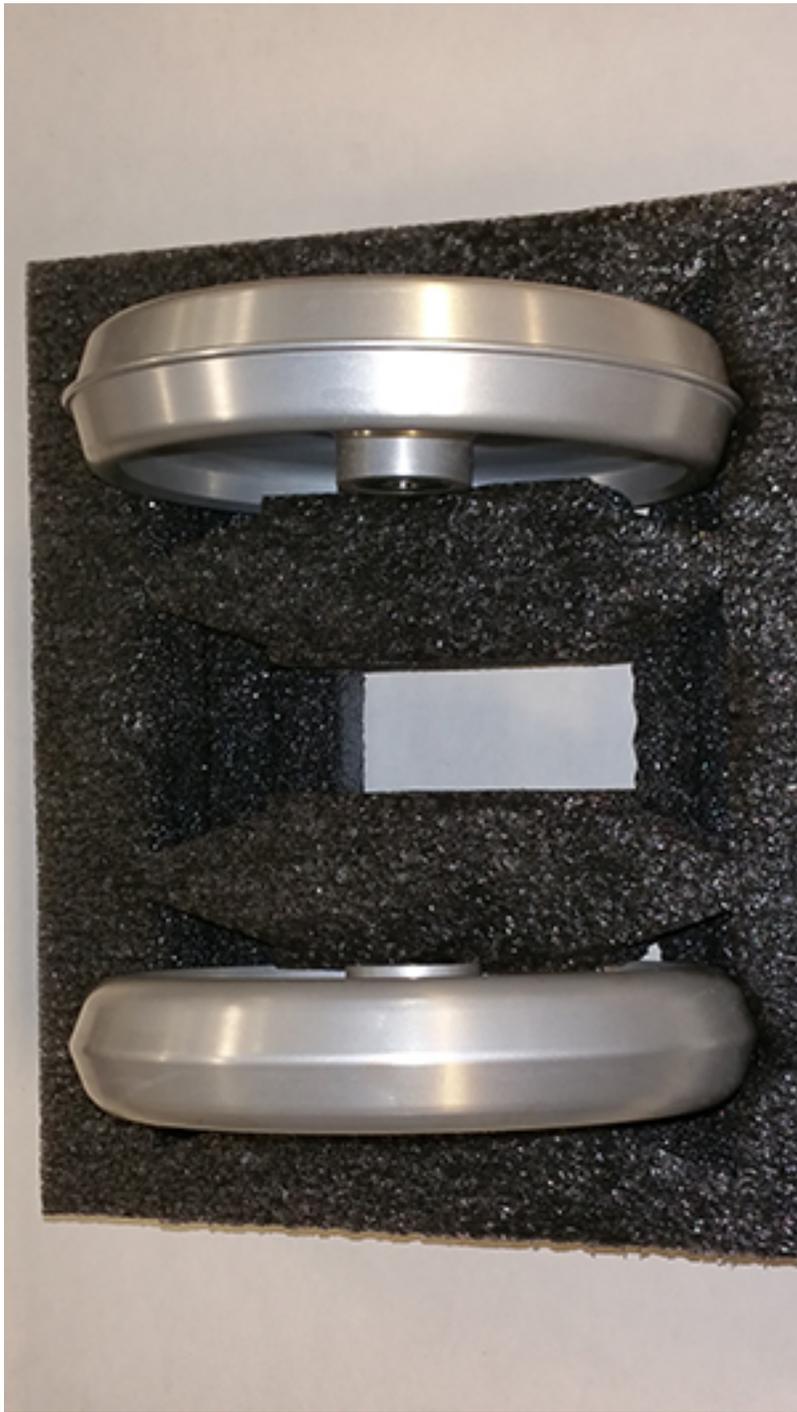
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HiForce Knife

Part no: 34050807
Serial nr: 1261







Rigid Material Knife

Part no: 34077057
Serial nr: 1205

