

KOENIG & BAUER | CELMACCH

# ChromaCUT High Tech



we're on it.



## Ready to meet the demand of tomorrow

Chroma was developed according to the highest specifications of European quality standards. All mechanical parts are manufactured in Italy, electronic components and direct drive motors are Siemens branded. The assembly of the whole machine takes place in Italy in Celmacch's factory.

### High productivity and exceptional print quality.

ChromaCUT is the new rotary die cutter designed and manufactured by Celmacch.

Available in the formats 2100, 2400 and 2800, ChromaCUT combines the advanced and well-proven printing technology of the ChromaPRINT series with the **highest precision** of the rotary die cutter, in order to provide exceptional productivity in the long term. It is a highly technological HBL line that

combines direct drive motors and a wide range of devices to ensure efficiency and **high performances in the long term**. ChromaCUT allows the operator to set up the next job while the machine is running. ChromaCUT is equipped with all the features that ensure **excellent printing quality and die cutting results**. A motorized lifting device enables rolls changeover in approx. 3 minutes, in order to select the right anilox for each individual work.

Thanks to the use of finest-quality European components, ChromaCUT ensures very high standards for durability, strength, reliability and maximum performance in the long term.



### **Top Vacuum Stripping Stacker**

- Newly developed Top-Vacuum Stacker
- No contact between printed sheets and transport belts
- No displace of cutting waste
- Non-stop system for continuous production
- Highest production speed

### **Servo Driven Rotary Die Cutter**

The rotary die cutting station is fully servo-driven and it is developed to ensure robustness, reliability and accuracy in the long term. The rotary unit was developed to be separated from the last printing unit in order to avoid dust contamination, which might affect printing quality. The rotary unit is also equipped with a dust extractor fan to minimize the level of dust emissions.



### **Celmacch Drying System IR + Hot Air**

Highly efficient drying system, which ensures a fast drying process due to the combination of the infra-red and hot air. The IR heats the sheet deep down, while hot air dries its surface, providing a double drying effect. Every dryer is divided into modules or sectors that can be activated independently for lower energy consumption. A specific laser sensor was designed to prevent possible risk of fire.

### **Carbon Fibre Chambered Doctor Blade System**

Innovative technological solution to obtain great results with flexographic printing. Carbon fibre offers many advantages such as easy cleaning process, ink saving and anti-corrosion in the long term. Special nozzles placed inside the chamber body offer a very efficient washing process term.



### **Automatic Wash-Up Of The Inking System**

This is an innovative and efficient system, designed to reduce water consumption and job changeover during doctor blade and ink circuit cleaning processes. PLC-control allows the setting of different washing programs (base, medium, strong) and durations. This system is equipped with peristaltic pump.

### **Quick Set-Up & On The Run Changeover**

Chroma allows a very quick changeover in order to set up the next job while the machine is still running. Changing the printing plate while the machine is in production increases productivity and reduces set up time.



### **Ultra Precision Vacuum Transport**

Ultra-precision vacuum transport system with direct drive motors and extremely precise driven belts. Thanks to precision engineering, these innovative transports offer the highest accuracy and a perfect register control.

### **Direct Drive Feeder**

High precision feeder, powered by the latest Siemens direct drive motors, designed to ensure great accuracy. This feeder is equipped with lateral joggers, whose regulation is automatic, and lateral blowers, for a better feeding of minimum thickness sheets.



# Technology at a glance

## Technical Data ChromaCUT High Tech

Technical Features	2100	2400	2800
Max. sheet width	2,100 mm / 82.67 in	2,400 mm / 94.49 in	2,800 mm / 110.24 in
Max. sheet length <sup>1)</sup>	1,600 mm / 62.99 in	1,600 mm / 62.99 in	1,600 mm / 62.99 in
Min. sheet length	600 mm / 23.62 in	600 mm / 23.62 in	600 mm / 23.62 in
Min. sheet width	600 mm / 23.62 in	600 mm / 23.62 in	600 mm / 23.62 in
Nominal circumference	1,676 mm / 66 in	1,676 mm / 66 in	1,676 mm / 66 in
Board level above floor	2,250 mm / 88.58 in	2,250 mm / 88.58 in	2,250 mm / 88.58 in
Substrate thickness	1 – 9 mm / 0.039 – 0.354 in	1 – 9 mm / 0.039 – 0.354 in	1 – 9 mm / 0.039 – 0.354 in
Max production speed <sup>2)</sup>	10,000 s/h	10,000 s/h	10,000 s/h
Stereo thickness	4 – 7 mm / 0.157 – 0.276 in (electronically adjustable)	4 – 7 mm / 0.157 – 0.276 in (electronically adjustable)	4 – 7 mm / 0.157 – 0.276 in (electronically adjustable)

<sup>1)</sup> without skip feed

<sup>2)</sup> dependent on individual processing parameters, e.g. inks and substrates used

## Our products portfolio

Technical Features	ChromaCUT Smart	ChromaCUT High Tech	ChromaCUT X Pro
Available size	2,100 2,400 2,800	2,100 2,400 2,800	2,800
Max production speed	9,000 s/h	10,000 s/h	12,000 s/h
Feeder without feeding rolls			✓
Quick set up while the machine is running		✓	✓
Combination top/bottom printing	✓	✓	
Automatic register control system (longitudinal and lateral correction)	✓	✓	✓
Fully automatic register control (including skew correction)			✓
100% inline print inspection system	✓	✓	✓
Control system for die cutting contour			✓
Motorized skew correction system on the plate cylinder		✓	✓
Anilox roll changeover system	Manual system (1+1)	Automatic system (2+1)	Fully automatic (3+1) - in parallel -
Fully automatic change			✓
Print to cut register (for rotary die cutter)			✓
Automatic changeover system for rotary die cut cylinder (1+1)			✓

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