

KOENIG & BAUER | CELMACCH

Chroma 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.

With a whole series of advanced technological features and functions, Chroma High Tech is among **the most innovative and state-of-the-art printers on the market.**

In terms of its technological features, Chroma High Tech does not hold back: features include stereo changeover whilst the machine is running, automatic anilox changeover

and the most innovative zero technology, allowing clients to achieve the **best print quality and productivity.**

Its direct-drive technology and vacuum transport system driven by belts, ensure great printing quality and high definition.

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



Top Vacuum Stacker

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

Transfer To Flat-Bed Die Cutter

Chroma High Tech is fully compatible with most of the available flat-bed die cutter in the market. Koenig & Bauer | Celmacch technicians provide assistance to ensure the perfect connection between the last printing unit and the flat-bed die cutter.



**On Request:
Print Image Inspection System**

High resolution camera to check printing quality by inspecting the whole surface, completely integrated with the sheet ejector system. This device controls all defects related to printing and background, register, missing text, register spots, barcode, splashes and colour variations.

**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 Chroma High Tech

Technical Features	1700	2100 (55")	2100 (66")	2400
Max. sheet width	1,700 mm / 66.93 in	2,100 mm / 82.67 in	2,100 mm / 82.67 in	2,400 mm / 94.49 in
Max. sheet length ¹⁾	1,300 mm / 51.18 in	1,300 mm / 51.18 in	1,600 mm / 62.99 in	1,600 mm / 62.99 in
Min. sheet length	520 mm / 20.47 in	520 mm / 20.47 in	600 mm / 23.62 in	600 mm / 23.62 in
Min. sheet width	550 mm / 21.65 in	600 mm / 23.62 in	600 mm / 23.62 in	600 mm / 23.62 in
Nominal circumference	1,397 mm / 55 in	1,397 mm / 55 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 ²⁾	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)

¹⁾ without skip feed

²⁾ dependent on individual processing parameters, e.g. inks and substrates used

Our products portfolio

Technical Features	Chroma Smart	Chroma High Tech	Chroma X Pro
Available size	1,700 2,100 2,400	1,700 2,100 2,400	2,100
Max production speed	9,000 s/h	10,000 s/h	14,000 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	✓	✓	✓
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			✓

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