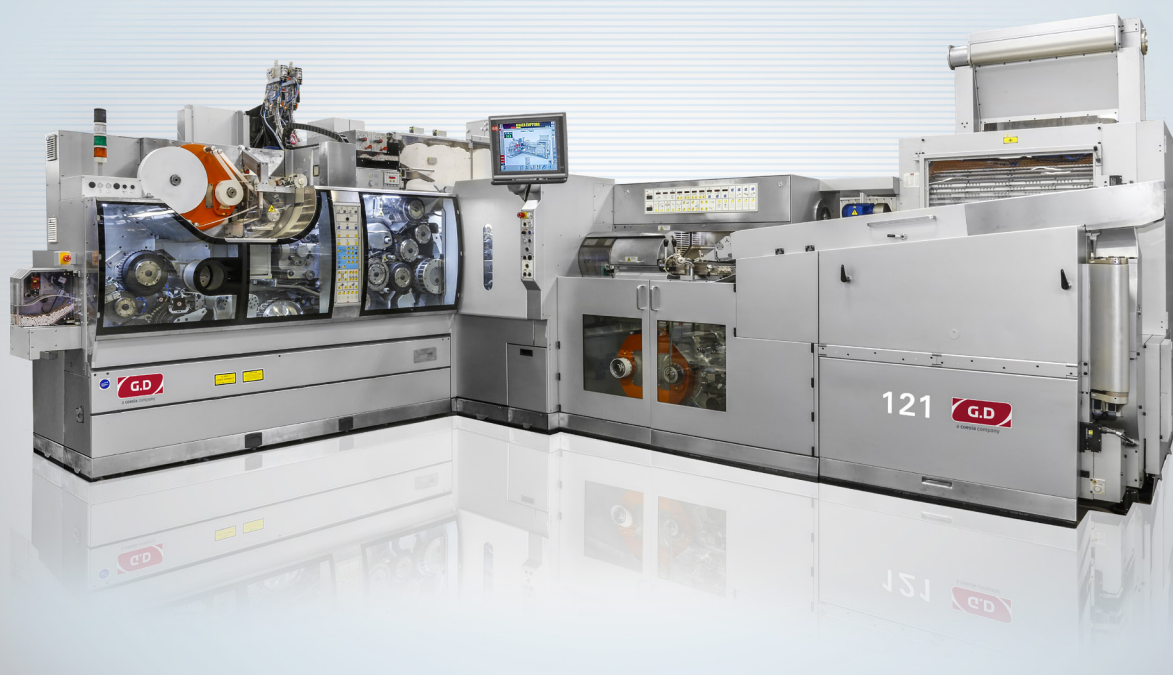


A close-up, high-contrast photograph of a cigarette manufacturing machine. The image shows a series of rollers and guides that shape and move cigarette components. The lighting is dramatic, with bright highlights on the machinery and deep shadows elsewhere, creating a sense of industrial precision.

121 CIGARETTE MAKING LINE



The G.D 121 is a double rod cigarette maker with a production capacity of up to 10,000 cigarettes per minute. When connected to the G.D X3 hinge-lid packer line with a packing capacity of 500 packets per minute, it forms an extremely reliable cigarette making–packing line.

MAIN FEATURES

- 1,000 mm tobacco hopper
 - Wide section for both channels
 - Uniform tobacco distribution
 - Excellent end product quality
- The double rod cigarette system halves the forming speed required for single rod machines
- Wide range of cigarette formats (kretek, recessed filter, tubes, superslim)
- Efficiency and reliability
- High end product quality with a wide range of tobaccos and wrapping materials
- Simple and robust design

HOPPER

The hopper section is based on a mechanical tobacco conveying system that guarantees delicate fibre handling, very low degradation levels and uniform distribution in both rods.

The tobacco is divided and taken by two flows through a suction chamber that provides extremely well balanced tobacco flow in both rods.

The stems are separated by the combined air and gravity effects in the floating chamber. The rejected stems can be sent to the stem collecting box or conveyed to the centralised collection system.

The cutting disks are automatically adjusted at correct height according to data supplied by the weight control system. The cut tobacco is sent back by conveyor belt into the tobacco carding drum hopper.

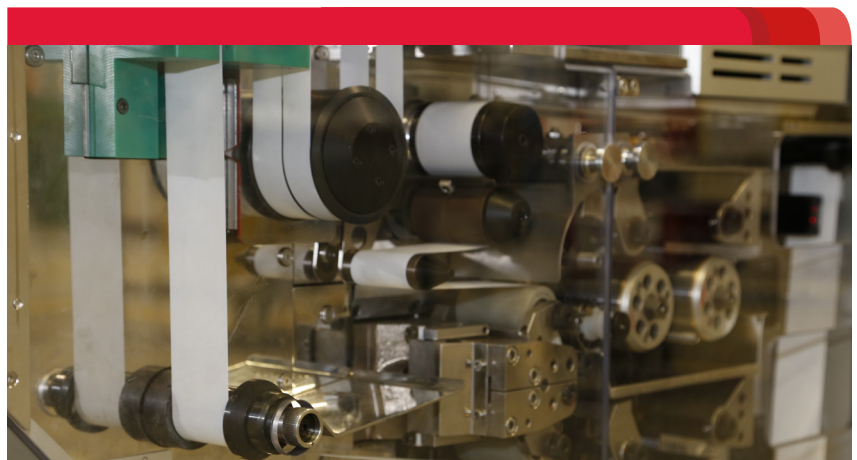


MAKER

The maker section transforms the two tobacco flows coming from the hopper into two continuous rods, applying and gluing the cigarette paper.

The cigarette paper is fed by a single reel and is cut in two by the machine, thus improving product quality as well as mechanical reliability.

Several control checks are performed on the rods to guarantee product conformity to quality standards and brand specifications.



The machine can be equipped with a one or two-colour printing unit.

The rods are cut to size by the cutting head before they are sent to the filter tipper section.

On exit from the maker, the rods are cut by the double-bladed cutting head that combines lower rotation speed with high cutting precision because of less vibration, providing strong mechanical reliability for longer lasting blade life.

TIPPER

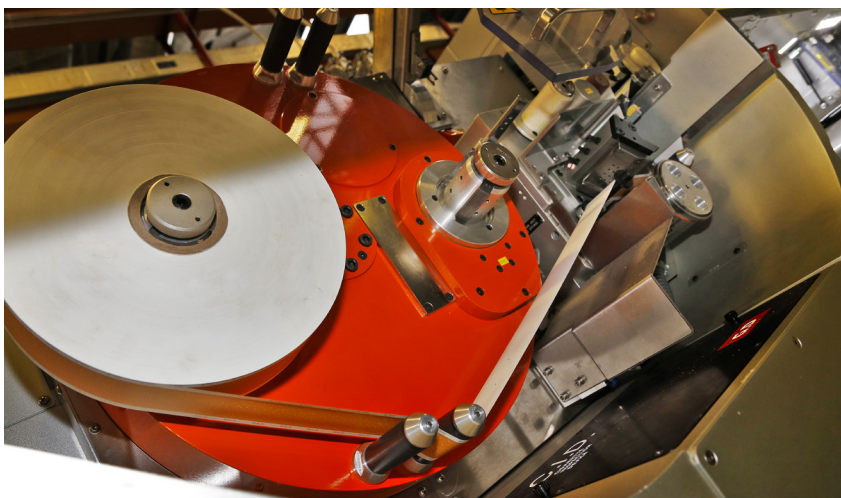
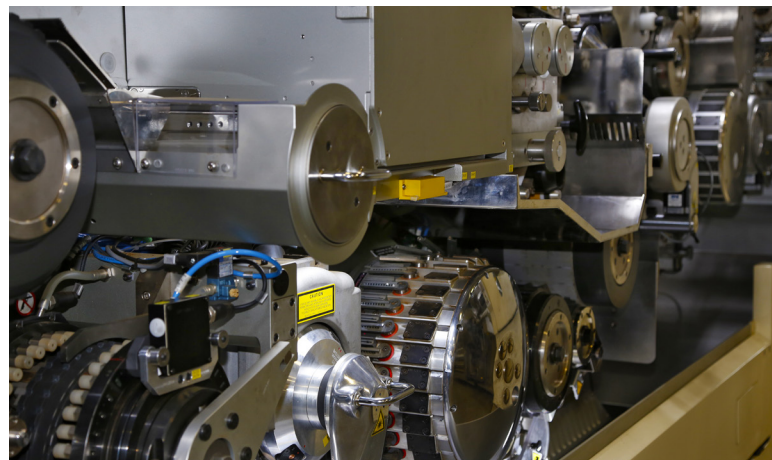
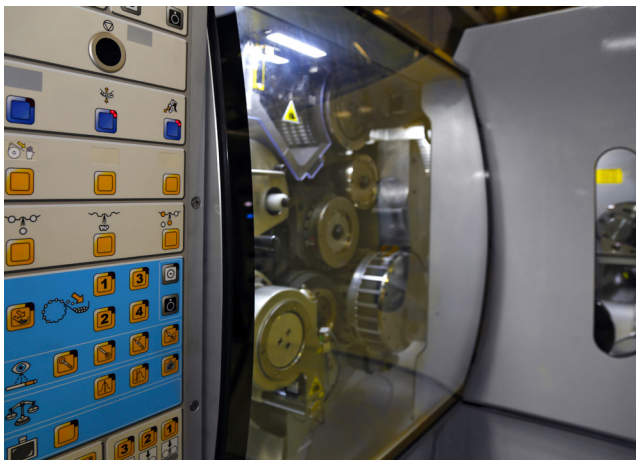
At the entrance to the filter tipper section, the six-headed spider system picks up the previously cut rods at low speed. The low speed reduces mechanical stress and handles the rods more delicately during transfer.

The filter paper is guided and tension is constantly controlled to ensure the best possible unwinding performance.

The filter rods can be fed through unloading trays or by filter receivers or connected to a filter mass-flow system.

The gluing system is independently motorized to permit easier managing of the skip tip timing. In the case of continuous gluing, the passage from print to wipe occurs without roller replacement.

The filter paper scissor cutting system guarantees greater cutting precision and simpler adjustment compared to previous systems.



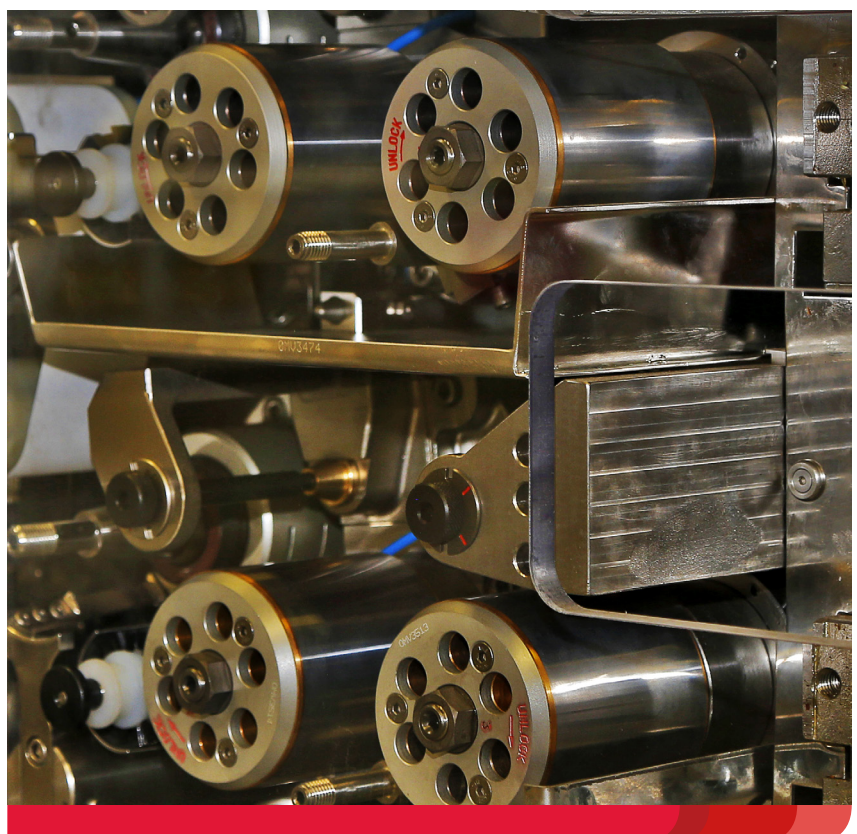
MAIN OPTIONS

The 121 model can be equipped with a wide range of optional features.

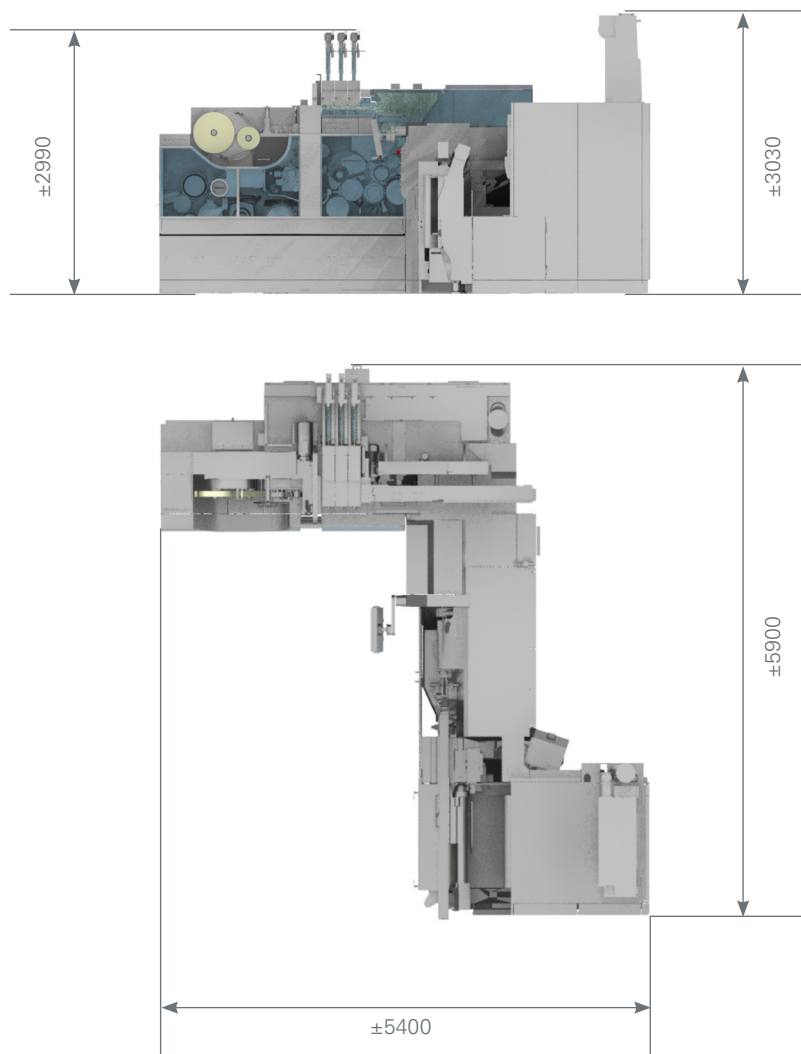
- Printing unit
- Print presence check
- Automatic print centring
- Automatic cigarette diameter control
- Rod metal detector
- Non tobacco material detector
- Tip scanner
- Extra Flexibility Kit

On line laser perforation

- 300 W or 400 W laser sources
- Gentle cigarette treatment (no rolling)
- Efficient vacuum system
- Wide range of different ventilation levels
- Several different configurations



TECHNICAL DATA



Production speed

- Max. production speed
- Max. linear speed per rod

10,000 cpm

360 m/min

Max. noise level

80 dB(A)

Weight

14,000 kg

Filter rod buffer capacity

14,000 rods

Electrical power consumption

50 kW $\pm 10\%$

Air consumption for de-dusting

4,750 m³/h @ 20mbar

Compressed air consumption

59 m³/h @ 6 bar



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