



STELLA

PASTILLATION



WHO WE ARE?

STELLA, based in Mouscron (Belgium), has been refining various grades of lanolin and lanolin derivatives for more than 50 years.

Since 2020, **STELLA** has been offering toll manufacturing services including wiped film and short path distillation (laboratory and industrial scales).
Since 2024, **STELLA** has expanded its services with its toll pastillation unit.



STELLA has recently acquired a pastillation unit to enable its customers to turn their bulk production into small pastilles.

This unit is suitable for many applications and offers a range of **considerable advantages**.

By investing in such **cutting-edge technology**, **STELLA** is providing an additional service and intends to position itself as a **key player in the toll manufacturing market**.

TO WHOM?

STELLA wants to make this **new unit available to its customers**.

Many sectors: cosmetics, pharmaceuticals, food, etc.

Many applications: oleochemicals, waxes, resins, polymers, etc.

This unit is suitable for small-scale production as well as larger-scale projects.



PHARMACEUTICALS



COSMETICS



SPECIALITY
CHEMICALS

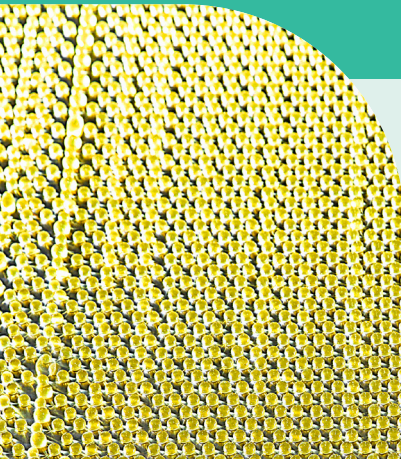


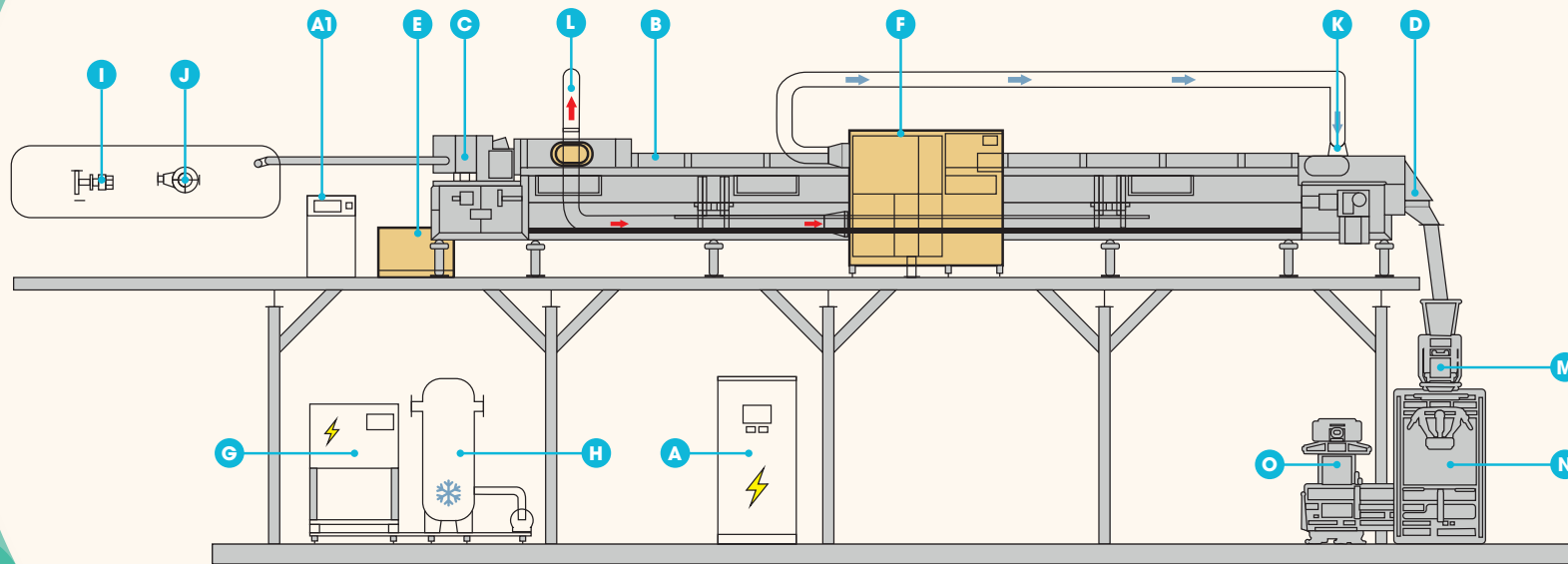
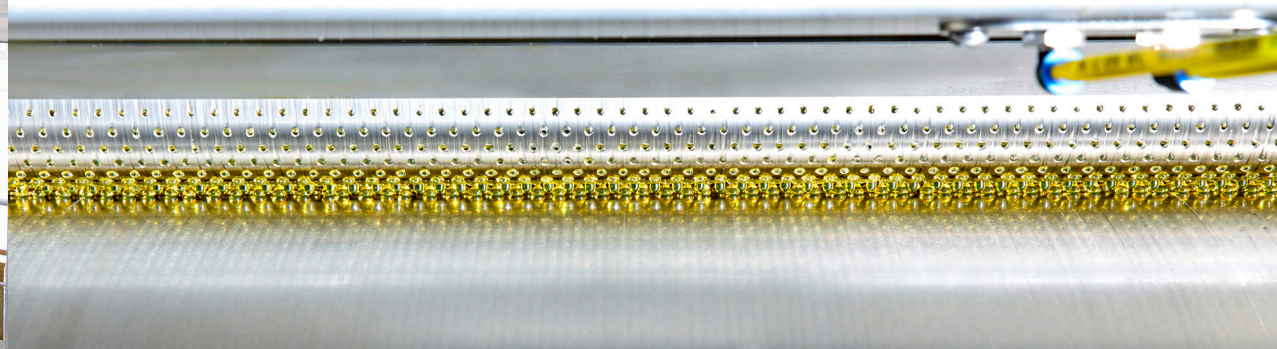
OLEOCHEMICALS

FOR WHAT?

PASTILLER OFFERS A NUMBER OF ADVANTAGES:

- > Certified packaging
- > Accurate dosing
- > Easy bagging
- > Easy to transport
- > Appropriate storage
- > Safer handling
- > Convenient blending
- > Rapid re-melting



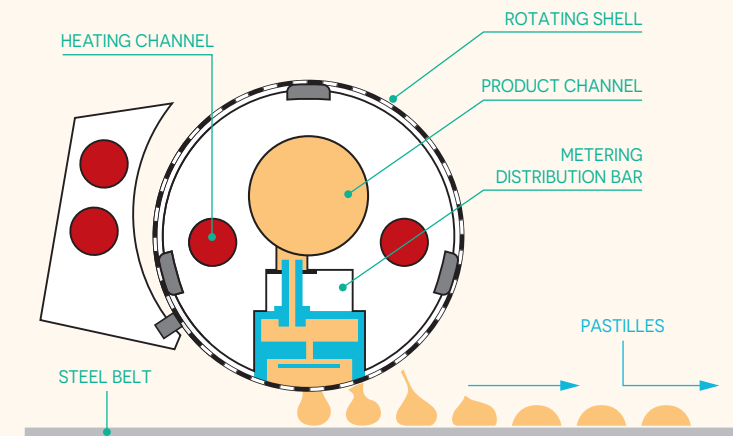


- A Electrical control panel with operator
- A1 Control panel with operator panel
- B Steel belt cooler
- C Rotoform' feeding system
- D Discharge tray

- E Heating oil unit
- F Air treatment unit (deshumidifier)
- G Chiller
- H Water collecting tank
- I Feeding gear pump

- J Fine filter
- K Supply air
- L Exhaust air
- M Dosing unit
- N Bagging unit
- O Bag welding unit

ROTOFORM PROCESS





MACHINE CHARACTERISTICS

TEMPERATURE

All equipment, from the feedstock tank to the rotoform and pipings are **double-jacketed and temperature-controlled** by a thermal oil unit.

INDIRECT COOLING

The steel belt is cooled at **- 7°C with a chiller** and its water/glycol collecting tank.

CLOSED CIRCUIT

The plant operates in a closed circuit to **prevent contamination**. The steel belt is **covered by a bonnet**. The discharge tray is connected to the bagging system.

DEHUMIDIFIER

The pastillation unit is fitted with a **humidity and temperature controlled circulation air and filtration system** to prevent condensation settling on pastilles due to hot ambient air conditions.

DOSING AND BAGGING

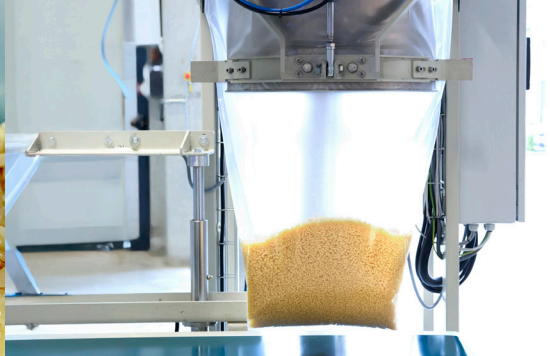
Pastilles are measured then bagged in a **calibrated automatic filling machine**. Bags are sealed in a pneumatic impulse heat sealer with air suction and/or nitrogen flushing to prevent oxidation. **Several formats : 5-10-15-20 kg**.

CONNECTION

External IBCs or heated ISO containers can be connected to the system.

FLOW

Steel belt width : **800 mm**.
Steel belt length : **10 m**.
The output is **230kg/h**, for hard yield production.



PASTILLES CHARACTERISTICS

- > Highly uniform
- > Hemispherical
- > Stable
- > Thermally unstressed
- > High purity and quality
- > Uniform shape
- > Consistently sized
(Ø 4.5 mm - H 2.5 mm)
- > Dry pastilles
- > Dust free pastilles
- > Free flowing

TOLL MANUFACTURING CHARACTERISTICS

- > Campaign Size: 1 to 13 tons
- > Product melting point: 120 °C max
- > Packaging:
 - Nitrogen blanketed bag
 - FDA welded bag as primary packaging
 - Cardboard box as secondary packaging
- > Certification:
 - ISO 9001
 - GMP Excipact
- > Customer Raw material delivery:
 - Drums
 - IBC
 - Heated ISO Container





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