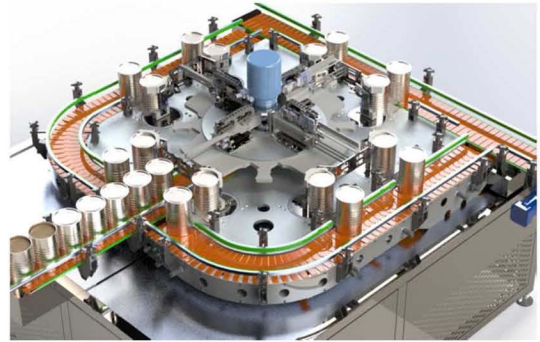
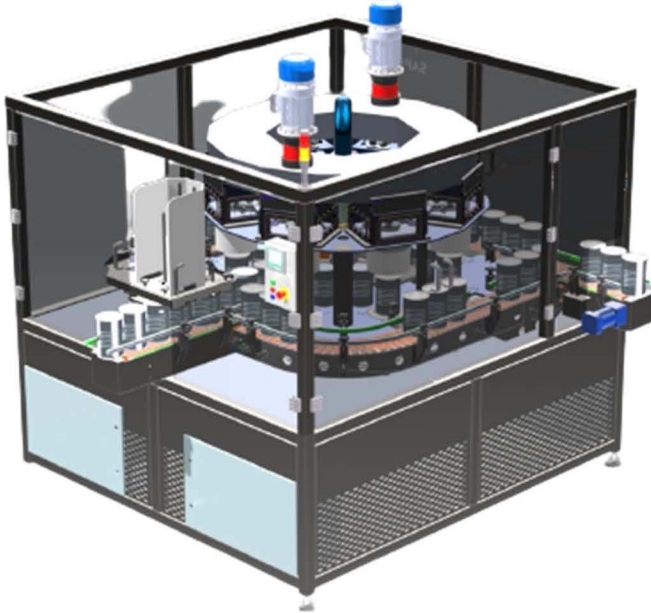


3. EQUIPMENT

3.1 VACUUM-GASSING AND SEAMING MACHINE (VGS-MASTER)



Sapli offers the unique high-performance can seaming equipment for vacuum-gassing metal tin cans or cardboard cans, **VGS MASTER**, designed specifically to minimize the vacuum-gassing and seaming cycle in order to achieve optimal residual oxygen levels.

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Production speed (depending on product properties and can sizes, tests to be done):

Version with 4 heads – 40 u/min

Version with 8 heads – 80 u/min

MACHINE BENEFITS:

- Low Nitrogen consumption
- Small footprint space used
- Inner control of pressure inside the can after seaming
- Highest production output per head in the market depending on the product
- Multiple different milks applicable (dusty, low % FAT, high % FAT, sticky,...)
- Patented system can adjust the residual O₂ through the screen
- Dust prevention control (optional)
- Lid UV disinfection in the machine (optional)
- No Nitrogen or CO₂ required in other machines or parts of the line

OPERATING PRINCIPLE OF ROTARY VACUUM-GASING SYSTEM:

1. Cans are fed into the machine and are placed in the exact position in the vacuum-gassing chamber.
2. The chamber is hermetically closed and the process of vacuum-gassing begins (oxygen is evacuated and nitrogen is added according to an individual formula for each product).
3. Cans are transferred to the exit when the full cycle of vacuum-gassing is completed.



Technical features:

- The rotary vacuum-gassing system
- Wide range of packaging shaped, heights and diameters.
- Seaming system with 1st and 2nd operation rolls
- Adjustable working speeds.
- Simple format change (approx. 15 min per head required).
- Adjustable O₂ residual levels depending on product requirements
- Parts in contact with the product are food grade stainless steel 316
- Safety UE standards and best quality brands installed

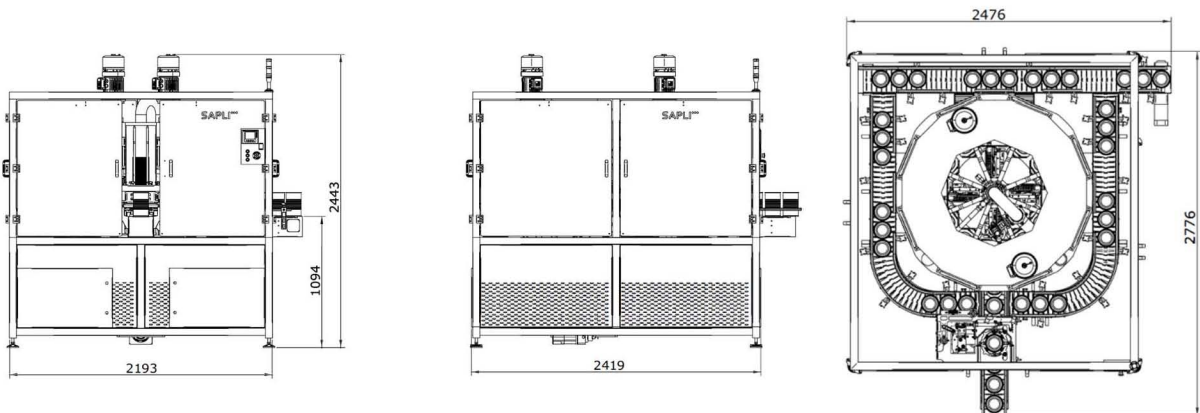
Technical features VGS-MASTER

Production Speed	up to 80 u/min (depending on product properties and can sizes)
Products	Powdered and granular products (Infant Formula, Milk Powder, Instant Coffee, Cocoa, Nuts, Snacks)
Can type	Metal Tin Can, Composite Can, Cardboard can or Plastic Can
Can diameter	50 mm - 250 mm (other sizes are possible)
Can height	50 mm - 250 mm (other sizes are possible)
Residual levels of O ₂	Adjustable ≤ 1% (depending on product requirements)
Gassing with	N ₂ or N ₂ +CO ₂ gas mixture
Power Requirement	3 kw / 4.5 kw

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OPTIONAL

- Leak detection in the cans after seaming
- Metal lids disinfection UV tunnel for automatic lids feeding
- Artificial vision for the quality control of the seamed cans
- Automatic rejection functions



3.2 POWDER PRODUCT FILLER FOR JARS AND CANS. CONTROL BY WEIGHT (INCLUDES TARE SETTING AND TOP-UP UNIT)



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Work process: Packaging entrance → Convey packaging → Vibration (Turn on or not) → Metering and filling → Vibration (Turn on or not) → Weighing feedback → Additional filling → Check weight and off-tolerance rejection → Packaging exit

Equipment performance description and characteristics

- Production capacity: Standard powder 60 cans/min
- Packaging weight : 50 to 1500g
- Packaging accuracy: 50 to 500g $\leq\pm 1g$; 500 to 1500g $\leq 2g$
- Double-screw heads filling, main filling and refilling, servo and pneumatic system control the holding tank and horizontal tank, accurate positioning, fast speed, stable performance and high precision.
- Filling can / bottle diameter $\phi 40 \sim \phi 130\text{mm}$, height 60 ~ 200mm
- The overall appearance material is mainly made of stainless steel 304
- Time for format change about 30 minutes
- The filling head is equipped with a hand wheel to adjust the height, which can easily achieve a variety of can heights: can change the height of the can without changing parts
- The size of the equipment is 2.6 * 1.05m * 2.4m high
- Weight is about 600KG
- Powder: 50L hopper servo motor 1.5KW, 30L hopper servo motor 1KW, bottle pushing servo motor: 0.75KW, 50L hopper stirring motor 0.4KW, 30L hopper stirring motor 0.2KW, 2 conveyor belt motors 0.2KW / 220V, with screw on Feeder power 2.24KW / 380V, total power: 6.49KW, requires 380V voltage



- There are two weight sensors under the container tray, which can be filled quickly and slowly according to the pre-set weight to ensure the accuracy of the canning. The device has a weight rejection function
- Stainless steel structure can be disassembled and cleaned without tools
- Equipped with dust removal system, connected with negative pressure pipeline, can effectively absorb the powder in the filling process, effectively protect the workshop environment.
- The material of the conveyor belt is PP material, and the bottle clamping mold adopts PP plate material

Machine suitable for powders and small granular materials with high packaging accuracy, uneven density, good flow or poor flow, such as protein powder, medicinal powder, powdery additives, starch, solid beverage, white sugar, monosodium glutamate, solid beverage, Veterinary medicine, glucose, toner, talcum, dyes, essences and spices.



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