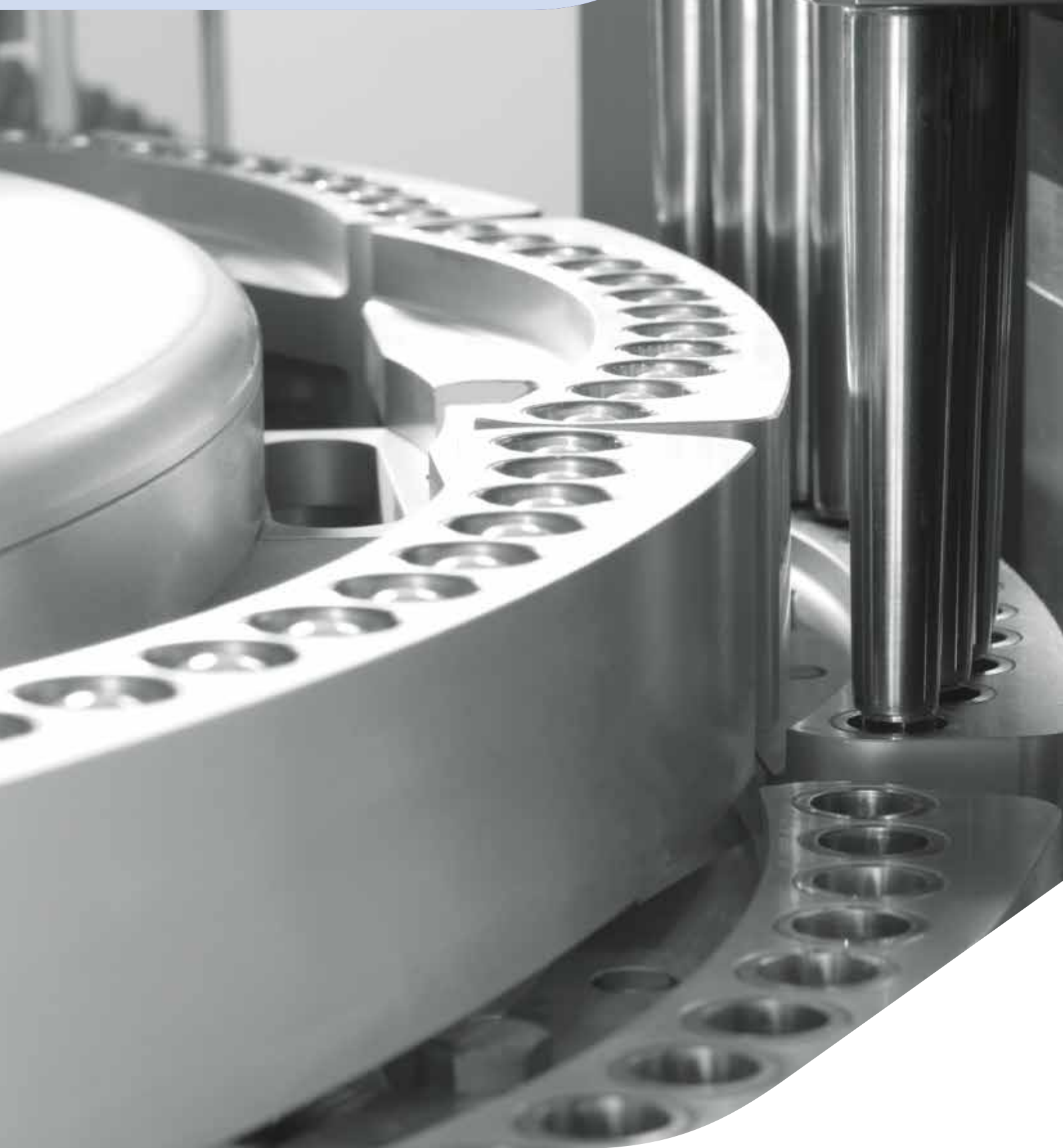


PRACTICA

CAPSULE FILLING MACHINE

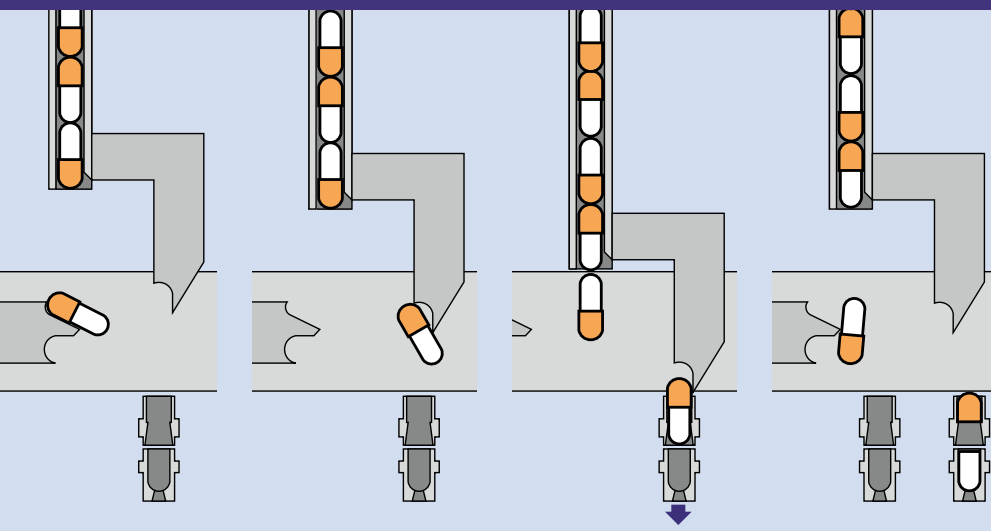


PRACTICA

PRACTICA capsule filling machine covers low-, medium- and high-speed production requirements and performs single product dosing (powder/granulate or pellets) with very high accuracy. The machine is highly reliable thanks to its engineered simplicity and ensures extremely easy operation and low maintenance. User-friendliness is its hallmark.

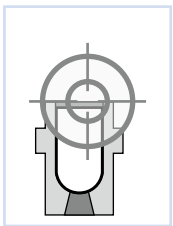


PRACTICA WORKFLOW



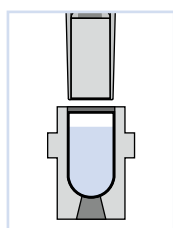
1 CAPSULE INFEEED AND OPENING

The capsules arriving from the infeed hopper are accurately positioned and inserted into the bushings where the cap is removed from the body by means of a vacuum.



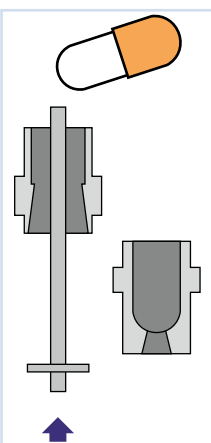
2 CAPSULE PRESENCE CHECKING

This station is available to fit an optional capsule presence checking group.



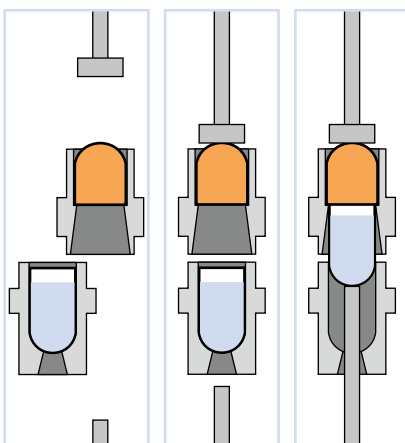
3 PRODUCT DOSING

This station is fitted with a product dosing unit (powder/granulate or pellets).



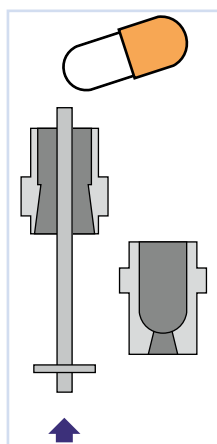
4 UNOPENED CAPSULE SELECTION AND REMOVAL

Any unopened capsules are rejected by means of appropriate pushers.



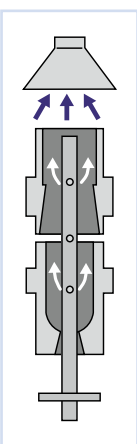
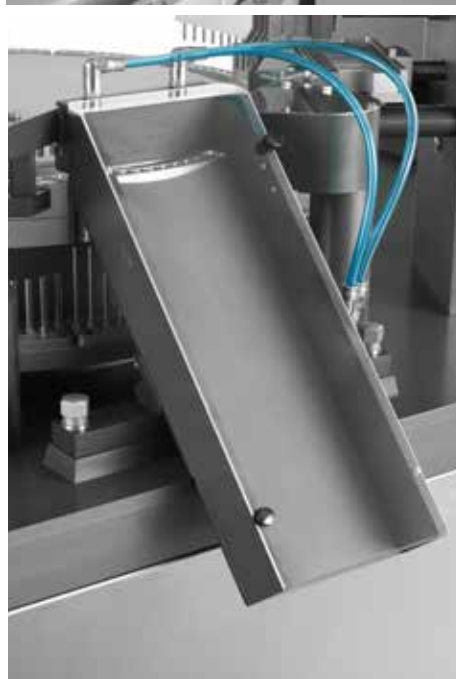
5 CAPSULE CLOSING

The bushings containing the capsule bodies re-align themselves with the corresponding capsule caps. The capsules are then closed by appropriate pushers.



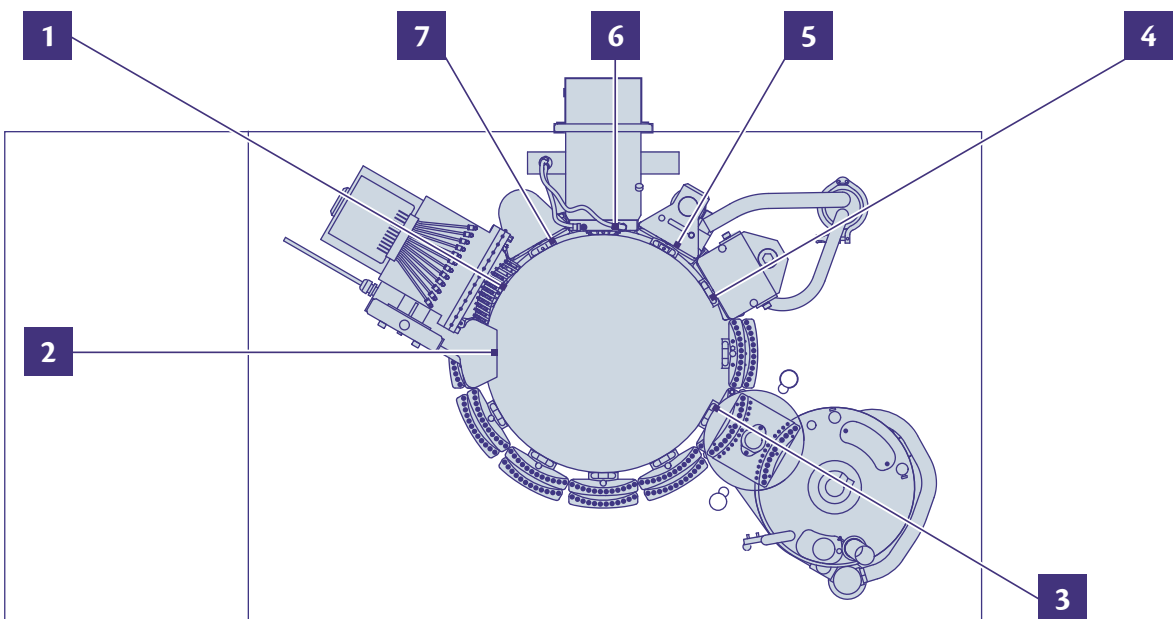
6 CAPSULE DISCHARGE

Closed capsules are discharged by the combined action of pushers and compressed air. A conveyor chute carries the capsules towards the finished product container.



7 BUSHING CLEANING

Upper and lower bushings are cleaned of any residual dust by means of compressed air and suction.



PRACTICA DOSING UNITS

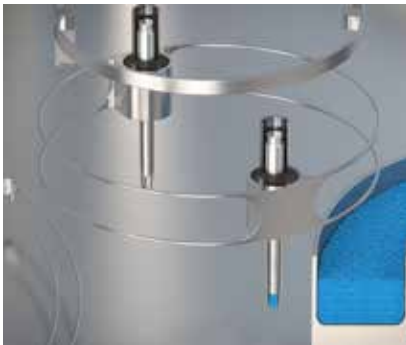


POWDER DOSING UNIT

Dosators are mounted on one block and are positioned in two opposite segments.

1. The block moves down and the dosators on the first segment penetrate the powder layer inside the product bowl, while the opposite ones are positioned above the capsule bodies.
2. The pistons of the first segment compress the powder to form slugs; the opposite ones eject the powder slugs into the capsule bodies.
3. The block moves up and turns; dosators with slugs are positioned over the next capsule bodies, while the empty ones are positioned over the product bowl and the cycle begins once more.

In addition to the rotary bowl fitted on standard machines, the IMA-patented vacuum bowl can be supplied for powder pre-compacting if very fine powders have to be dosed.



PELLET DOSING UNIT

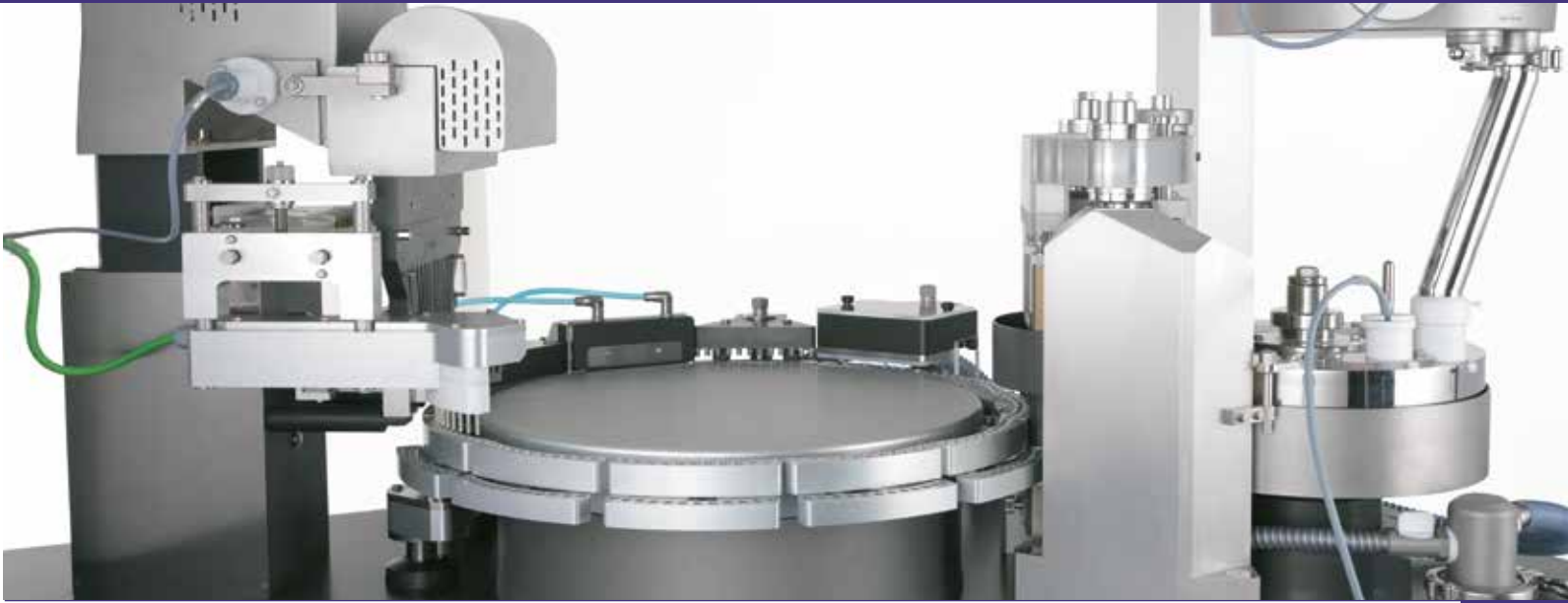
Dosators are mounted on one block and are positioned in two opposite segments.

1. The block moves down and the dosators on the first segment penetrate the pellet layer inside the product bowl, while the opposite ones are positioned above the capsule bodies.
2. The pistons of the first segment create the dosing volume and vacuum-force pellets to fill it; the opposite ones eject the pellets into the capsule bodies, and the vacuum is released.
3. The block moves up and turns; the dosators filled with pellets are positioned over the next capsule bodies, while the empty dosators are positioned over the product bowl and the cycle begins once more.

Excess pellets are removed by a soft system particularly suitable for microtablets and delicate coating.



PRACTICA



CONTROL SYSTEM

PRACTICA is fitted with MAX, the new corporate HMI. The new UX design plays a strategic role in improving operator efficiency, while ensuring prompt responsiveness, enhanced predictability and easy learning. The result is an HMI that truly meets the operators' needs. The underneath KORTEX, an iFix-based SCADA, is designed to be IoT ready, for an easier and deeper connection with a superior layer, intra- or inter-plant.



ACCESSIBILITY AND CLEANABILITY

Once the machine windows are opened the working area is completely accessible, making cleaning operations very easy.

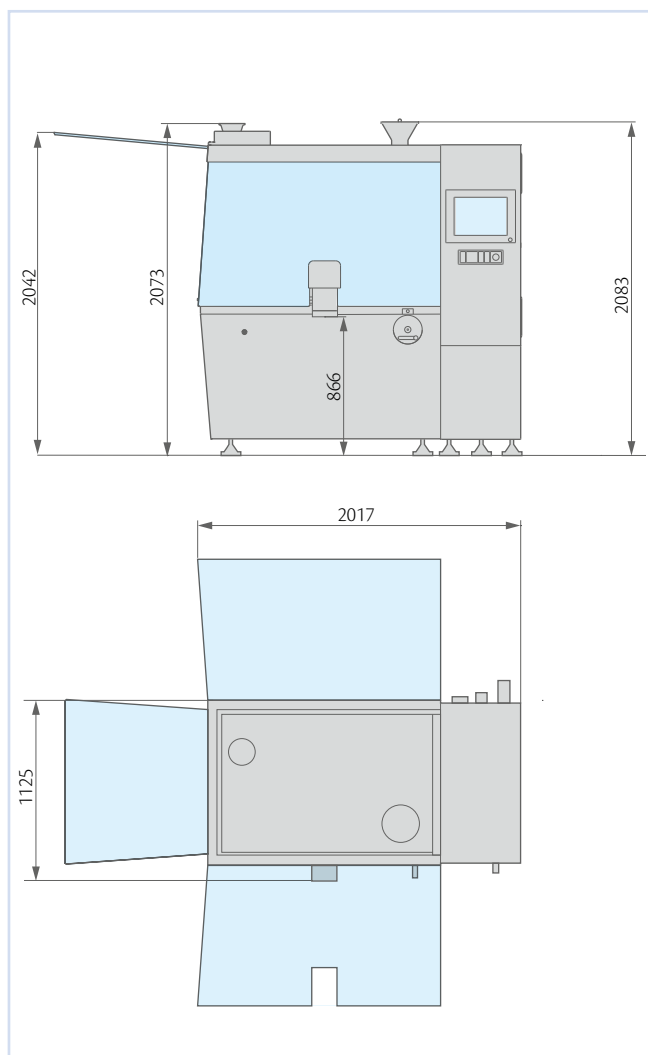
STATISTIC WEIGHT CHECK AND SELF-ADJUSTMENT

PRACTICA is prearranged to be equipped with a statistic weight-checking unit for production monitoring. If the machine is also equipped with self-adjustment, the weight of the sampled capsules can be fed back to the control system which automatically adjusts the position of the dosing head to keep the set target weight. In this way production is automatically kept within the parameters set by the operator.

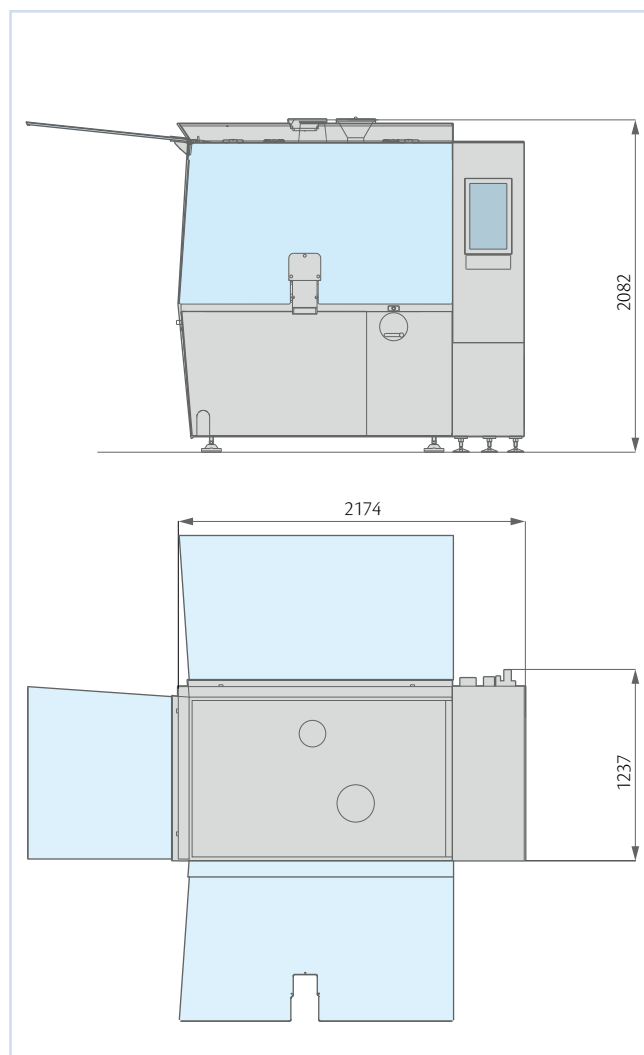


TECHNICAL DATA

PRACTICA 100



PRACTICA 200



	PRACTICA 100	PRACTICA 200
Maximum output (capsules/hour)	100,000	200,000
Number of capsules per cycle	12	24
Capsule size	5-00EL, 000, DB	5-00EL, 000, DB
Maximum installed power (kW)	15	16
Aspiration	5,100 l/min – 3,200 mm H ₂ O	9,500 l/min – 3,200 mm H ₂ O
Compressed air	115 l/min – 6 bar	115 l/min – 6 bar
Vacuum	100 m ³ /h – 3 mbar (abs.)	165 m ³ /h – 3 mbar (abs.)
Standard voltage	400 V – 50 Hz	400 V – 50 Hz
Weight (kg)	1,900	2,300



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