

Modu-C CS

Highly precise filling –
because every
capsule counts

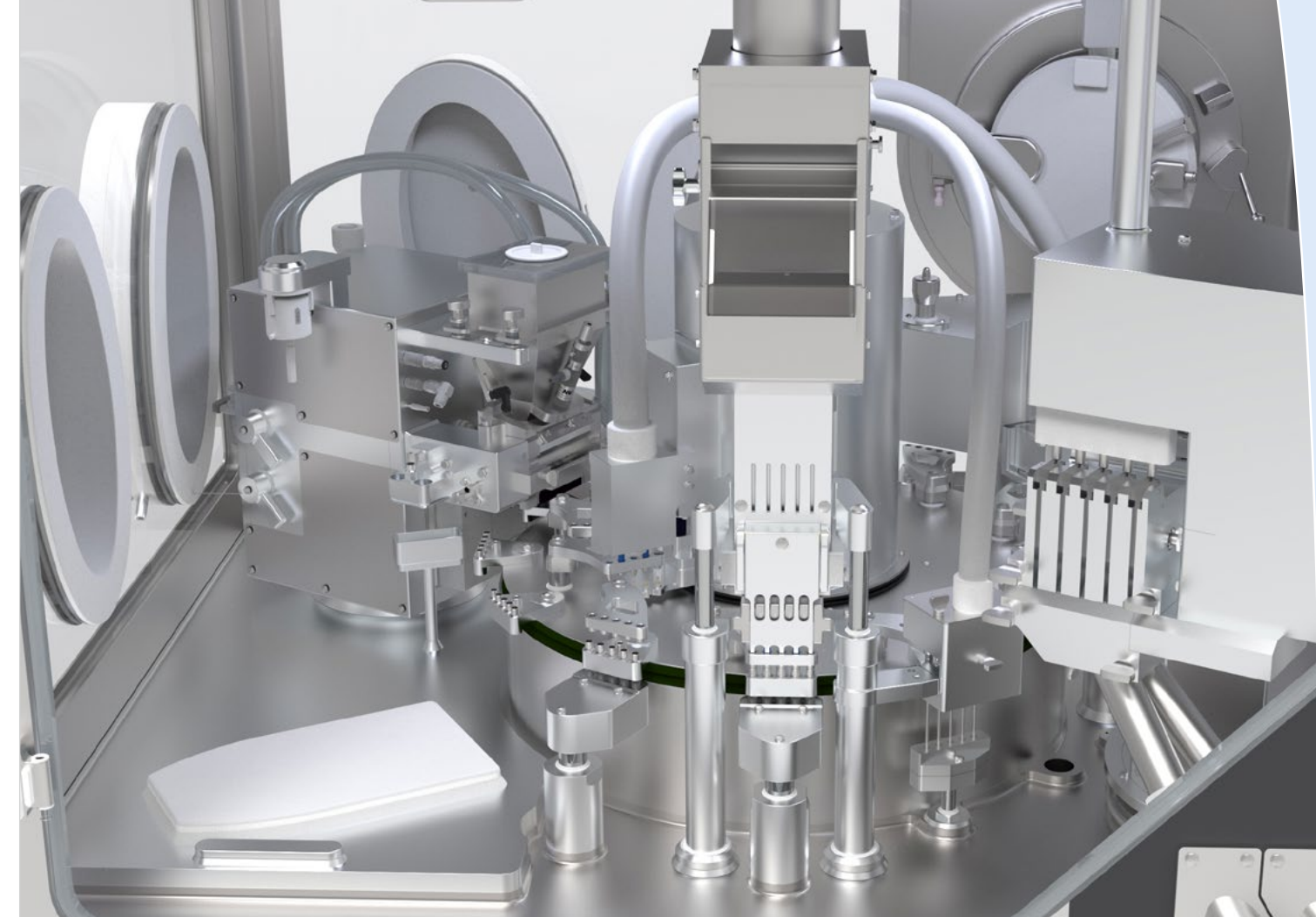
Modu-C CS

Many options, one target:
maximum efficiency

From development to production: With an output of 43,500 capsules per hour, the Modu-C CS sets new standards when it comes to capsule filling machines.

The Modu-C CS offers protection concepts for all capsule applications, even for powder OEL < 1 µg/OEB 5. A trolley system allows a rapid change of dosing systems for maximum flexibility. The choice of dosing system and product feeding depends on the product properties, true to our motto "The product defines the process".

Sophisticated standard processes and additional functions ensure maximum efficiency, outstanding quality, and help to save resources. This ensures that only products that are 100 % perfect reach patients – because every capsule counts.



The Modu-C CS sets new standards when it comes to capsule filling machines

- + **Individual:** Protection concepts for all capsule applications
- + **Flexible:** Dosing of a wide range of powders and pellets
- + **Precise:** Best results with all powder blends, engineered particles, spray-dried powders, pure active ingredients, and more
- + **Productive:** Rapid dosing system change
- + **Modular:** A range of different functions can be integrated
- + **Efficient:** 100 % inline weighing
- + **Compact:** Small footprint thanks to reduction of downstream equipment
- + **Economic:** Product-saving processes

Modu-C CS

Highly versatile state-of-the-art capsule manufacturing

Designed for highly efficient commercial production on a small scale, the Modu-C CS is the ideal platform for modern capsule production.

Whether it is the patented segment turret, in-process control (IPC), or 100 % weight check, the robust processes guarantee a simple, stable, and transparent production. The Modu-C CS, supported by individual product infeed and dosing technology, provides optimal results for even the smallest product quantities and products with complex rheological properties.

Features:

- Output: 43,500 capsules per hour
- PAT systems (Process Analytical Technology)
- Integrated 100 % weighing
- Quick format change
- Easy operation and cleaning



Modu-C CS Containment

Maximum protection, superior quality

Optimal operator and product protection against highly active substances.

Containment concepts up to OEB 5 can be achieved on the CS platform. Functions like the integrated de-duster and cleaning by WIP (Wet-in-Place) enable safe working, good handling, and reduced space requirements. The 100 % weighing in closed containment is revolutionary and ensures that each finished capsule is exactly the right weight. Also for the handling of moisture- or oxygen-sensitive products, suitable environmental conditions inside the production area can be provided

Features:

- Output: 43,500 capsules per hour
- Configurable up to OEB 5
- Integrated 100 % weighing
- Integrated capsule de-duster
- Safe cleaning with Wet-in-Place (WIP)
- Good accessibility thanks to the separate control cabinet
- PAT systems (Process Analytical Technology)
- Humidity and temperature control in the containment version

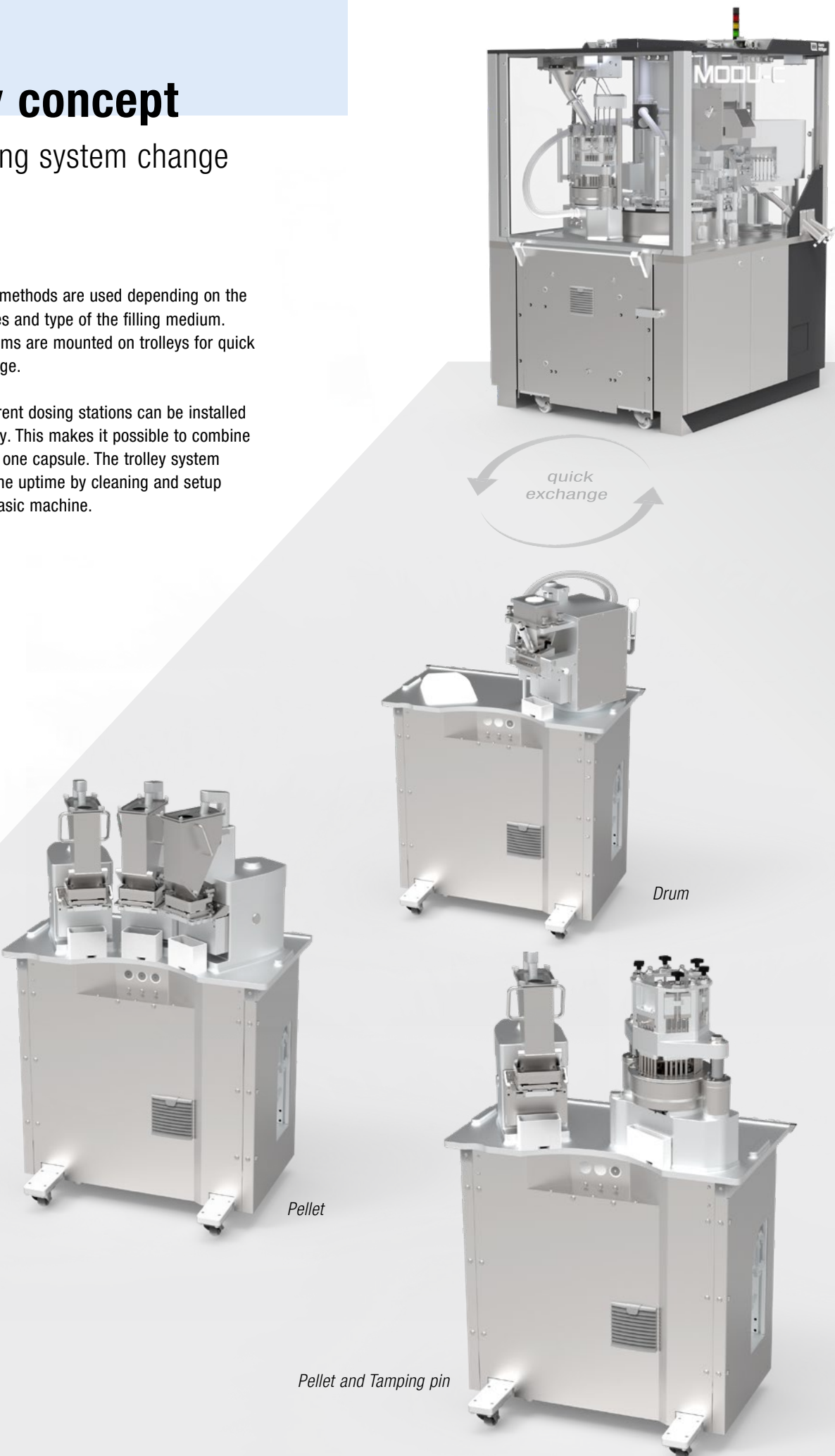


Trolley concept

Rapid dosing system change

Different dosing methods are used depending on the powder properties and type of the filling medium. The dosing systems are mounted on trolleys for quick and easy exchange.

Up to three different dosing stations can be installed on a single trolley. This makes it possible to combine several media in one capsule. The trolley system increases machine uptime by cleaning and setup away from the basic machine.



Quality assurance

Precise inspections

100 % gross weight control	IPC
<p>For maximum reliability: In-process weighing of each individual capsule</p> <ul style="list-style-type: none"> ■ Accuracy +/- 2 mg ■ Transparent process, trackable in real time ■ Good and bad products ejected separately ■ Reduction of downstream equipment 	<p>Precise in-process weighing of a predefined capsule volume</p> <ul style="list-style-type: none"> ■ Accuracy +/- 0.1 mg ■ Tare/Gross weighing ■ Sampling frequency can be set on the HMI ■ Fully automatic calibration of the AMV Sensor ■ Batch reporting ■ Good and bad samples are captured separately

ENGINEERED PRODUCTION SOLUTIONS



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