

Modular capsule filling machine Modu-C

For the flexible production of capsule products.



The Modu-C is designed for efficient material processing with extremely low residual amounts of powder. On this machines powders in the micro-range with a fill amount of 1 mg upwards can be dosed. The Modu-C stands out clearly from other capsule filling machines.

The machine technology offers a modular system for many tasks. It is precisely in the proving of new active substances, on test runs or in the production of small and pilot series that a fast change of suitable dosing systems is of great benefit.

Modu-C – The capsule filling and sealing machine for individual applications with a high technical benefit:

- Efficient powder dosing through the availability of 4 different dosing principles
- Micro-quantity dosing possible from a fill weight of 1 mg upwards

- Easy to clean and excellent product handling due to GMP-compatible design
- Optional gross/tare weigher with of a resolution of 0.1 mg upwards
- Protection of product and operator achieved with special guarding with regulatable atmosphere
- No loss of powder! An optical capsule sensor detects the presence of empty capsules. If any capsules or capsule parts are missing, the dosing of the product is automatically stopped.

The work required to change the dosing process, which is connected with the conversion of stations, is restricted to changing a trolley in the case of the Modu-C.



Dosator



Tamping pin



Drum filler



The entire production unit of the Modu-C at a glance



The workpiece receivers of the Modu-C



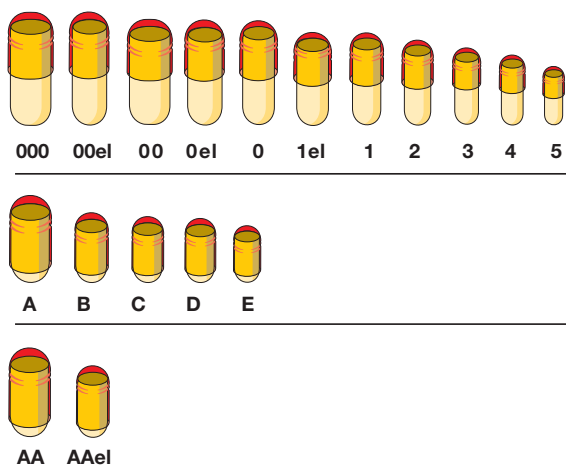
Inserting of empty capsules into the rotary turret

With the Modu-C we have designed a capsule filling and sealing machine into which different systems for the dosing of tablets, pellets, powders and thixotropic media can be integrated.

- Separate weighing cell for the compensation of ambient vibrations
- Assurance of the weighing process by the integrated self-control of mechanical and electronic components
- Assurance of the weighing result by auto taring after a preselectable time
- Online analysis of the weighing signal, with plausibility check

- Statistical evaluations directly at the machine
- Interfaces for data transfer for documentation of the weighing process
- Interface to a central production data acquisition system
- Empty-capsule weighing optional
- Toolless size changeover
- All sizeparts can be delivered on a conveying system that enables easy cleaning e.g. in a washing machine or storage in a cupboard

Capsule sizes



i You will find further informations in our brochure "Modu-C"

Machine expansion by the attachment of a diagonally fitted gross/tare weighing system. The base frame of the machine is designed so that an expansion by a gross/tare weigher can be realized quickly and rationally.

The filling of liquids is also possible:

- Thixotropic media
- Hotmelting media

The Modu-C can be optionally equipped with a dosing station for thixotropic or hotmelting media.

Technical data

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|--------------------------|--|
| Mechanical output | 150 - 400 capsules / min. depending on the charging of the machine, quality and properties of the product |
| Capsule types | Hard gelatine capsules Cellulose capsules A capsule shell made of alternative materials is possible |
| Fill tolerance | ± 1% |

| | |
|-----------------------------------|---|
| Electrical specifications | 3 PH/N/PE*, 230/400V, 50/60Hz, max. 3kVA |
| Dimensions | B = approx. 1980 mm H = approx. 1480 mm |
| Weight | approx. 850 kg |
| Energy requirement | 6 bar |
| Compressed air consumption | 2,5 m ³ /h at 6 bar |