

## Automatic capsule filling machine HLF-45 Artikel-Nr.: CAP020.1.2



Automatic capsule Filling Machine HLF-45 is designed for fully automatic filling of hard gelatine capsules with powder, granulate and pellets in the pharmaceutical and food additive area- The production output of the HLF-45 is max. 40.000 capsules per hour.

The machines of the HLF series can be standard equipped with the tool sizes from #00 to #4. The machines are conform to GMP standards and CE certificated.

### Machine Process:

Filling of the machine with product (powder, granulate and pellets),  
 Opening of hard gelatine capsules,  
 Filling of the capsules with products,  
 Closing of the capsules and discharge of the finished capsules.

| Technical data                   |  |       |
|----------------------------------|--|-------|
| Hersteller                       | HL Pharm Tech                                |       |
| Typ:                             | HLF-45                                       |       |
| Max. output (Puder)              | 40,000                                       | cap/h |
| Size of capsules                 | #00, #0, #1, #2, #3, #4<br>Option: #000, #5) |       |
| Dimension of the machine approx. | 1085 x 825 x 2120                            | mm    |
| Segments for capsules/ bore      | 5  |       |
| Max. Rotation of segment         | 132  | rpm   |
| Main motor power                 | 1  | kW    |
| Rotation speed control           | Inverter                                     |       |
| Drive engineering                | Roller gear cam indexing                     |       |
| Method of weight control         | Disk thickness                               |       |

| Technische Daten            |                          |                    |
|-----------------------------|--------------------------|--------------------|
| Drive engineering           | Roller gear cam indexing |                    |
| Volume of product hopper    | 20                       | L                  |
| Volumen of capsule hopper   | 25                       | L                  |
| Compressed air              | 6                        | kg/cm <sup>2</sup> |
| Weight netto                | 1000                     | kg                 |
| Working condition:          |                          |                    |
| Storage of capsules         |                          |                    |
| Temperature:                | max. 20 – 25             | C°                 |
| Air humidity :              | max. 50                  | %                  |
| Indoor- / working condition |                          |                    |
| Temperature:                | 20 – 25                  | C°                 |
| Air humidity :              | max. 40 – 50             | %                  |

### The Function Of The Capsule Filling Machine

The capsule feeding system sorts and turns the capsules with every lift and leads them to the storage. Out of the storage the lower segments are filled with the capsules.

The filled lower segments are closed with the upper segments and the capsules are separated with vacuum.

After the separation the segment disk turns to the capsule filling system.

The capsule filling system is supplied with a powder by the hopper (Niveau controlled).

The powder is dosed by the dosing disk and the dosing punches into the 5 stations and brought to the measured weight.

On the 6th station the dosed amount of the powder is put with the filling punches into the lower part of the capsules. The capsules are closed in the capsule closing system.

At this step the upper segments with the upper capsule halves go over the lower segments and the capsules are closed with the closing punches.

After closing of the capsule the upper segments return into the basic position.

Now the capsules are blown out of the lower segments into the collector tank and from there to the discharge chute.

After discharge of the capsules the lower segments are cleaned with a compressed air.

At the same time the remaining powder is removed with the dust collector.

(Capsule discharge and segment cleaning is at the same position).

The capsule filling machine was produced in 2014.

The delivery includes:

including format parts for capsules Gr. 0  
 (other sizes available for an extra charge),

incl. dosing disc 22 mm,

including dust extraction,

incl. 2 dosing discs (# 00-4)

including 6 capsule closing pins

including 12 seals for HLF 45 vacuum system

Max. Power 40,000 caps / h

Capsule size from # 000 - 5 possible

Encapsulation of powder, granules and pellets (optional) possible

faster and easier format change without additional tools

Touch screen

(Human Interface)







