

NJP-2000 Automatic Capsule Filling Machine

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The **NJP-2000** automatic capsule filler processes the products for optimal productivity up to **120,000 capsules per hour**, featuring low-maintenance operation, minimal downtime, and overall dependable production. Powder dosing uses the 5 stage tamping technology for an enhanced accuracy. Filling of pellets is available.



NJP-2000 Capsule Filling Machine Principle of Operation

Capsules from the bunker are fed into the orienting device along the vertical guide.

Then they are transferred into special cells on the rotor. Here the capsule is separated, after what the bottom part comes to the filling position.

After filling the bottom part with the material, on next positions the non-separated capsules are rejected, and the filled bottom parts are joined with top parts, counted and taken away into the receiving box.

The dose of material depends on the thickness of the dosing disk.

NJP-2000 Capsule Filling Machine Features

- ✧ cGMP design with emphasis in powder dust handling: Enclosed main turn table avoid dust getting into mechanical parts.
- ✧ Enclosed dosing system with dust suction reduces cleaning frequency.
- ✧ Vacuum cleaning station for segment cleanup in each cycle.
- ✧ Efficient capsule separation by means of vacuum.
- ✧ Automatic control for capsule and powder supply.
- ✧ PLC control (SIEMENS) for reliable operation.
- ✧ Touch Screen HMI, featuring user friendly controls: production counter, manual / automatic / parameter setup modes, alarms.
- ✧ Precision capsule segments and dosing disk minimizes adjustments following parts changeover.
- ✧ SS 304 stainless steel frames and transparent safety interlock guards.
- ✧ Special 3D design in dosing disc bottom ring, 5-column support prevents material fatigue and deformation, ensures a constant gap of the dosing disc.



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Capsule Filler Machine	NJP-2000
Number of stations	10
Number of segment bores	18
Application range	Capsule sizes: #0, #1, #2, #3, #4 (option #00, #5) Each size requires a set of capsule tooling.
Max. output (pellet filling)	24,000-85,000 pcs / h (actual speed depends on formulation characteristics, filled weight, capsule size .. etc)
Max. Output	48,000-120,000 pcs / h (powder filling)
Power source	380/220V , 3 phase 4 wire , 60/50 HZ
Power consumption	8 KW
Machine dimensions	1010(L) x1080(W) x2000(H) mm
Machine Weight	1500 Kg (approx)