



MOI
ENGINEERING PVT. LTD.

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AUTOMATIC EMPTY HARD GELATIN CAPSULE MAKING MACHINE

The machine is built from high precision components having the desired metallurgical and heat treatment characteristics resulting in low wear and tear, low maintenance and longer life.



The machine is fully automatic and makes gelatin capsule bodies and caps by a dipping process and joins them in a completely automatic process. The Pin Bars, in-groups of six / seven / eight are dipped into gelatin ensures even spread of gelatin over the pins and then raised to the upper deck. After four cycles, when 24 / 28 / 32 pin bars on body side and 24 / 28 / 32 pin bars on cap side are assembled on the upper deck, the bars are automatically pushed through on upper drying kiln. From the upper deck, the groups of pin bars are automatically lowered by an elevator to a lower deck and pushed through lower drying ducts. The Pin Bars are now deposited on platforms, one for cap bars and one for body bars and pushed into the automatic section. At the automatic section, the capsules are stripped from the pins by stripper jaws and moves forward into the collets. These collets rotate, while cutting knives trim each capsule to its proper length. A vacuum removes all trimmings. The collet moves these capsule halves to the center of the machine, where they are pushed into stepped joiner blocks. The



collets withdraw, leaving the joined capsules in the joiner blocks, from where ejector rods push them onto a conveyor belt and out of the machine. At this juncture, the Pin Bars move back towards their initial position, and as they do, two greaser' heads move over the pins, applying a light film of lubricant. They are now ready to begin the dipping process once more.

TECHNICAL SPECIFICATIONS

Product

Single or double lock two-piece hard gelatin capsule of standard sizes 0el, 0, 1, 2, 3 & 4.

Machine Speed

Dry Run variable upto 45 Pin Bars per minute

Machine Dimensions

Length:

15.35 m for ACM-XFH / 16.50 m for ACM-XFS

Width:

2.00 m for ACM-XFH / 2.00 m for ACM-XFS

Height:

2.20 m for ACM-XFH / 2.20 for ACM-XFH (exclusive of Hoods.)

Electric Supply

415 V, 3 phase- 4 wires, 50 Hz

Air Pressure

Maximum: 5.50 Kg/Sq.Cm. | **Minimum:** 2.75 Kg/Sq.Cm.

Air Volume

0.2 CuM/Min (Approx.)

FEATURES

- ▶ Output: Upto 81,000 capsules per hour.
- ▶ Fully automatic.
- ▶ VFD for machine speed control.
- ▶ Fail safe highly sensitive safeties.
- ▶ Machine designed & built as per CGMP standards.
- ▶ Automatic centralised lubrication system.
- ▶ PLC Controlled.
- ▶ Operation interface with LCD screen.
- ▶ SCADA packages.
- ▶ Servo controlled dipping.
- ▶ Dual Speed dish drive (Optional).
- ▶ Temperature control using digital PID controller / PLC.

MODELS

- ▶ **ACM – XFH 1100L & 1300L:** Hydraulic Version, with all pushers (upper deck, lower deck & rear elevator) operated through hydraulic system.
- ▶ **ACM – XFS:** Servo Version, with all pushers (upper deck, lower deck & rear elevator) operated through Servo system.



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