



F-10

F-10 TUBE-FILLER FOR CYLINDRICAL TABLETS

General Description

The GORDIC F-10 is a compact machine, equipped with a SIEMENS PLC which is operated from a control panel where operating instructions, error messages and tube speed, etc. are displayed.

The PLC in combination with pneumatics and mechanics reduces set-up time for the GORDIC F-10 to a minimum and provides flexibility in terms of possible product formats. The unique system for gentle counting and filling of cylindrical tablets in tubes is especially suitable for fragile products like effervescent tablets.

Tablet feeding

Tablets are fed from a vibratory tablet feeder, 20 L, attached on the machine on to a small conveyor belt on where the tablets are counted.

Semi automatic Tube feeding

Tubes are fed from a gravity chute, via one channel, to the tube gate where they are placed. One tube is moved down to the chain at one time. The chute is feed manually and it can contain approximately 60 -100 tubes depending of the diameter of the tubes.

Semi automatic Cap feeding

Caps are fed from a gravity chute, via one channel, to the capping station where they are fixed. One tube is capped at the time with pneumatic cylinder. The chute is feed manually and it can contain approximately 50 – 80 caps depending of the diameter of the caps.

Technical Data

FORMAT RANGE		MACHINE DATA	
Tube length:	60-220 mm	Capacity:	Nominal up to 10 tubes a minute depending on the number of tablets per tube and the speed of the operator
Tube Diameter:	19-40 mm	Voltage:	230V AC, zero and earth, 50 Hz
Tube material:	Plastic or Aluminium	Power:	Approx. 900 W
Tablet diameter:	16-35 mm	Compressed air:	7-8 bar, approx. 200 L/minute
Tablet thickness:	3-10 mm	Dimension:	220 x 130 x 140 (L x H x W cm)
		Weight:	Approx. 200 kg

The above-mentioned capacity can only be reached at proper production conditions and at a minimum of broken tablets, it also depends of operator's capability to feed manually the F-10 with enough tubes and caps.

Ideal production conditions are temperatures of 18-20° C and a relative humidity of 20-25%.

The main parts of the filling machine are made of stainless steel (2333), aluminium (4212), Delrin (POM ACETAL), CB-PET, Teflon or Makrolon.

Filling machine F-10

The filling machine is fully automated and protected against personal injuries according to the valid CE-norm.

In the channel of the cassette on the tablet table, the tablets are counted. When the pre-selected number of tablets is accumulated, tablets are gently filled into the tube, first passing through the rotating in-feeder tube.

After filling, tubes are transported on a chain towards the capping station. During transport a control unit checks if the tubes are filled to the correct level of tablets. After a sensor has checked if the tube is correct capped the correct tube is ejected from the machine. Wrongly filled or badly capped tubes are transported on the chain out of the machine.

The F-10 can be equipped with format parts for different tablets, tubes and caps. Change from one format to another is normally made within 30 minutes. Simple format changes, like change from one tube length to another, are done much faster.

CE-protections

Comply with the valid CE-norm.

Factory acceptance test (FAT)

Before delivery a FAT is held at GORDIC. This test is performed with tubes, tablets and caps equal to those the F-10 is intended to handle at its final destination.

Warranty

12 months, valid from date of shipment.



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