



F-160

F-160 TUBE-FILLER FOR CYLINDRICAL TABLETS

General Description

The GORDIC F-160 is a flexible machine. It is equipped with a SIEMENS S7 PLC which is operated from a control panel where operating instructions, error messages and tube speed, etc. are displayed. The machine is fully automated and protected against personal injuries according to the valid CE-norm.

The PLC in combination with pneumatics and replaceable format parts reduces set-up time for the GORDIC F-160 to an absolute minimum and provides flexibility in terms of possible product formats. The ROTAFILL® -system, a unique technology for gentle counting and filling of cylindrical tablets in tubes, is especially suitable for fragile products like effervescent tablets.

The F-160 can be equipped with format parts for different tablets, tubes and caps.

Tablet feeding

The tablets are fed either directly from the tablet press outlet, eventually via a conveyor, over a chute to a tablet table with a distributor.

The distributor provides an even distribution of tablets into a cassette with twenty channels. From this cassette a controlled number of tablets are then filling 20 tubes, with the ROTAFILL® -system in about 2 second.

As an option our efficient tablet feeder can feed the filling machine with tablets from bulk and our unique AIRSLIDE® that provides gentle distribution, dedusting and online buffering of tablets, can be integrated.

Tube feeding

Three different types of tube supply units are available for the F160 filling machine:

1. *TUBE FEEDER* for tubes, delivered in bulk. This feeder has a capacity of 3000-5000 tubes, depending of the tube size.
2. *FOLDABLE EXTERNAL TUBE MAGAZINE* similar as the internal tube magazine with the same capacity.
3. *EXTERNAL TUBE MAGAZINE* this type is special made for only one size of tubes.

On the tube feeding options above are the tubes transported to the filling machine on a FlexLink® conveyor equipped with cleated chain.

Cap feeding

Caps are fed from a cap feeder, via a channel, to the capping station where the tubes are capped with pneumatic cylinders. The cap feeder's container can be loaded with up to 2000 caps, depending on cap size.

As an option the F-160 can be equipped with an additional pre-feeder including a conveying system.

Filled tubes

After capping, the tubes are discharged and can be taken care of manually or as an option transported away on a conveying unit. Wrong filled tubes and significant badly capped tubes are rejected. Ink jet printing is preferably made during transport on the conveying unit.

Technical Data

FORMAT RANGE		MACHINE DATA	
Tube length:	70-200 mm	Capacity:	Nominal up to 160 tubes a minute or 190000 tablets an hour, depending on the number of tablets per tube.
Tube Diameter:	20-40 mm	Voltage:	3 x 400 V AC, zero and earth, 50 Hz
Tube material:	Plastic or Aluminium	Power:	Approx. 5 kW
Tablet diameter:	18-30 mm	Compressed air:	7-8 bar, approx. 850 L/minute
Tablet thickness:	3,5-10 mm	Weight:	Approx. 800 kg

Please observe that the above-mentioned format range can be handled only with more than one set of format parts. Ideal production conditions are temperatures of 18-20° C and a relative humidity of 20-25%. Materials used are stainless steel (2333), aluminium (4212), Delrin (POM ACE-TAL), CB-PET, Teflon or Makrolon.

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DARRON

 info@darron.fr  

 +33 (0)4 50 69 59 91

gordic

Gordic AB
Tommabodavägen 3 · SE-28070 Lönsboda · Sweden
Tel. +46 451 234 06 · Fax +46 451 234 30
sd@gordic.se · www.gordic.se