

mtf5, automatic tube feeder for bulk loads



mtf5

General Description

The MEDIPAC mtf5 tube feeder is designed to be installed together with the medipac mf range tube filling machines. It can feed tubes from bulk and does also orientate the tubes before they leave the feeder.

This automatic tube feeder is fully GMP-conform and can deliver a nominal capacity of 100 tubes/min.

The combination of electric drives, pneumatics and replaceable format-parts reduces set-up time to less than 30 minutes and provides an extremely wide flexibility in terms of possible product formats.

Function

Empty tubes are loaded as bulk goods manually by the operator into the tube hub on the feeder.

The tubes are then forwarded by 5 sets of chains that can be initiated individually in order to guarantee that all five channels are filled to the same level. The stop- and go of the feeding chains is initiated by 5 sensors in the buffer chute of the feeder.

The feeder does also include a stop and separation unit that controls the feeding of the orientated tubes onto the tube conveyor following after the feeder. On this tube conveyor are the tubes forwarded orientated and separated from each other so that for instance automatic bar code reading is possible.

A checking station where the orientation of the tubes is checked and wrongly orientated tubes are ejected is also included in the delivery. This station can also be used to eject tubes that are rejected by, for instance, a bar code reader or a vision system.

Technical Data

Format range		Machine data	
Tube length:	55 -200 mm	Capacity	Up to 140 tubes per minute depending on the length of the tubes
Tube diameter:	16 - 35 mm	Voltage:	400 V and earth, 50 Hz
Tube material	Plastic- or Aluminium	Power:	Less than 1 kW
		Compressed air	7 bar, 250 L/min
		Weight	Approx. 200 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 ACETAL) Teflon or Makrolon.