

TUBE FEEDER



TUBE FEEDER FOR TUBES IN BULK

General Description

The tube feeder with container consists of a stainless steel frame built like a truss, the container is triangle-shaped when viewed from the side. Four carrier-provided chains which lie between plastic ledges runs along the underside of the container and feed up tubes to the turning point with pendulums.

Tubes that lies double or not between the carriers on the chain, is during transport up to the pendulums recognized by sensors and blown back down in the container. The large hatch, easily maneuvered due to gas springs, is opened for refilling.

The large hatch, easily maneuvered due to gas springs, is opened for refilling the container. Depending of the size of the tube the container can hold about 2500-7000 tubes.

When tubes with the opening upward come up to the turning point, the pendulum glides into the opening, and the tube overturns. Tubes that come with the bottom first, are not affected by the pendulums. The tubes then slides down on the chute with the four V-shaped channels.

Down on the end of the chute is a frame mounted, in the frame is two cylinder maneuvered bars mounted. The bars work alternately in and out and let only one tube from each channel coming out.

Parallel with the exit of the chute is a Flexlink® conveyor mounted, it is equipped with a chain with carriers and in the area between the carriers is the tubes transported to the filling machine.

During transport on the Flexlink® are sensors checking the orientation of the tubes, wrong oriented tubes is blown of the Flexlink® into a box.

The tube feeder is manly made to feed plastic tubes, although aluminum tubes can be used if they are sufficiently durable but this needs to be tested from case to case and can result in lower capacity.

CE-protections

Comply with the valid CE-norm.

Technical Data

FORMAT RANGE		MACHINE DATA	
Tube length:	53-200 mm	Capacity:	Nominal up to 120 tubes a minute depending on the length of the tubes.
Tube Diameter:	19-40 mm	Voltage:	230V AC, zero and earth, 50 Hz
Tube material:	Plastic or Aluminum*	Power:	Approx. 500 W
Weight:	Approx. 200 kg	Compressed air:	7-8 bar, approx. 100 L/minute

*The main parts of the tube feeder are made of stainless steel (2333), aluminium (4212), Delrin (POM ACETAL), CB-PET, Teflon or Makrolon.
Aluminum tubes needs to be tested for their durability.

TUBE FEEDER

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TABLET FEEDER

TABLET FEEDER FOR TABLETS IN BULK

General Description

The tablet feeder consists of a stainless steel frame, container for tablets, U-profiled flumes, vibrating engine and a control box.

On top of the frame is the container for tablets mounted. On top of the container around the edge a pipe is mounted, the pipe have a slit on the side fronting the inside of the container, to this a dust collector can be connected.

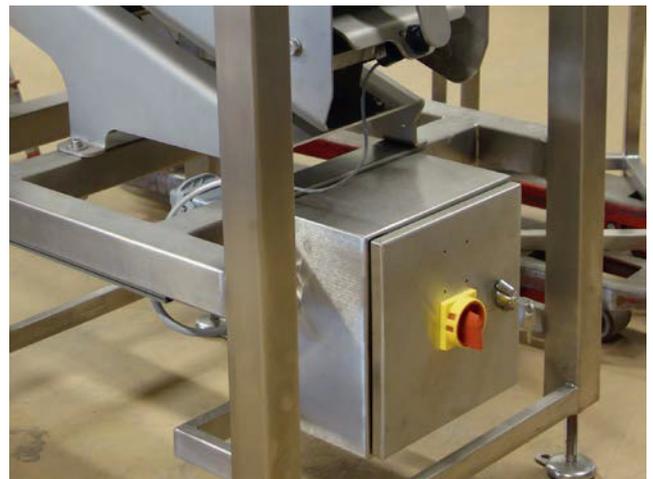
On the lower parts of the container at the front side, an adjustable hatch is mounted. The hatch can be adjusted up and down to regulate the flow of tablets. The vibrating engine is mounted in the frame and on the top of it a fixed deep U-profiled flume.

On top of this fixed flume is a second replaceable shallow flume mounted. The shallow flume is a format part and the sizes of the holes on the surface are depending of the tablet diameter.

The vibration of the flumes is transporting the tablets from the container forward against the filling machine. On the way broken tablets and dust is falling through the holes down onto the fixed lower flume and also transported forward but ending in a collecting box.

The whole tablets are transported to the end of the top flume and slides down on a chute to the filling machine.

The vibration engine is steered by a special control unit mounted in the cabinet. A sensor measuring the stroke of the vibration and feeds back this information to the control unit. The unit is always trying to feed tablets with the same speed independent of the load of tablets.



Technical Data

FORMAT RANGE		MACHINE DATA	
Tube length:	-----	Capacity:	Depending of the connected Filling machine
Tube Diameter:	-----	Voltage:	From connected Filling machine
Tube material:	-----	Power:	From connected Filling machine
Weight:	Approx. 70 kg	Compressed air:	From connected Filling machine

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AIRSLIDE

AIRSLIDE FOR DEDUSTING, BUFFERING AND FEEDING TABLETS

General Description

The AirSlide® works in following way, air is bowed in under a special perforated plate on which the tablets floats on a bed of air. On top of the plate, there is a collecting cover and in the front the evacuation pipe. The air is then circulated through a filter, this holds the dust. The AirSlide® has several functions such as buffering, gentle distribution and dedusting of the tablets.

The AirSlide® can be feed directly from a tablet press or from a tablet feeder. Gordic delivers only the AirSlide® table, the filter and ventilation system need to be supplied by the customer.

On top of the AirSlide® there is a frame on which two sensors is mounted. The sensors steers the AirSlide®, the one at the entry to the AirSlide® starts and stops the feeding of tablets from the tablet press or the tablet feeder and the one at exit controls the tablet gate. When the front sensor has signal and the filling machine calls for tablets, the tablet gate starts to open and close the tablet gate so the tablets is sliding down to the filling machine.

Normally the air for the AirSlide® is taken from the main ventilation system of the room and the return air is transported through a dust filter back to the ventilation system.



You need to have a fan to blow the air through the AirSlide®, the speed of the fan must be adjustable so you can find an air flow when the tablets is floating correct.

If the air is in a closed loop it can be heated from the fan motor and then it can be necessary to add a cooler in the loop.

Technical Data

FORMAT RANGE		MACHINE DATA	
Tube length:	-----	Capacity:	Depending of the connected Filling machine
Tube Diameter:	-----	Voltage:	24 VDC, from connected Filling machine
Tube material:	-----	Power:	From connected Filling machine
Weight:	Approx. 70 kg	Compressed air:	From connected Filling machine

AIRSLIDE

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