

# Centrifugal Feeders

GRUBER A/S has developed a complete programme of centrifugal feeders. The feeders can be adapted to a wide range of different articles and jobs. Below you see a selection of articles which can be handled by our centrifugal feeders:

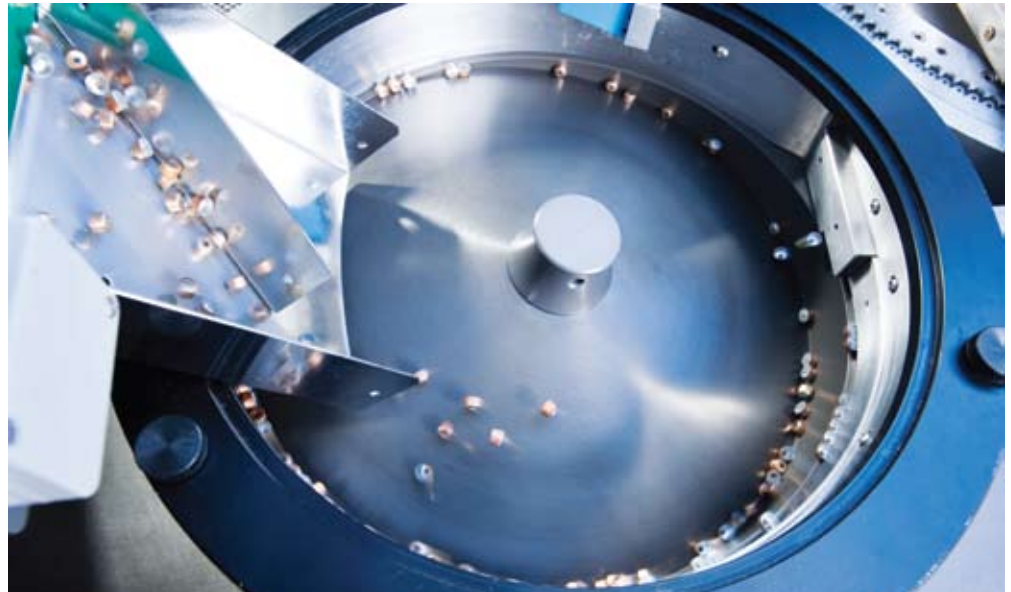


## Description

The centrifugal feeder is intended for the ejection and orientation of articles in connection with the processes of automatic mounting machines. The ordinary capacity of the machine is 200 to 500 units per minute. Depending on the form of the unit the capacity may reach 2000 units/minute.

The centrifugal feeder consists of a centrifugal feeder disk and a centrifugal feeder bowl rotating independently of each other and with continuously variable speed. The shafts of centrifugal feeder disk and bowl are inclined in relation to each other.

A conveyor takes the articles from the silo to the centrifugal feeder disk, and the centrifugal force from the rotation brings them to the raised edge of the centrifugal feeder disk. At its highest point the edge is level with



the rim of the centrifugal feeder bowl. By way of the rim of the centrifugal feeder bowl, the articles are carried through a lead-out guide and taken to the mounting machine.

Screening units mounted on the mounting plate of the centrifugal feeder see to it that the articles are orientated in the right direction.

Control equipment at the outlet of the centrifugal feeder checks that possible defective or incorrect orientated articles are rejected and/or blown back.

The infinitely variable speed regulation of both centrifugal feeder disk and bowl brings optimum grading conditions, and the wear of the articles is reduced to a minimum. Also the surface coating of the

centrifugal feeder disk and bowl contributes to minimizing the wear.

We always make a test run with articles before effecting delivery of the centrifugal feeder, and we adjust the speed to the optimum level. Normally there will be no or only a minor readjustment.

In case a readjustment is required you must consult the supplier in order to prevent undesirable results because even a minor change of the adjustment may cause a total change of the grading result.

*Cont....*



*Specialist supplier to the pharmaceutical industry*



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## Operation and control equipment

The way the conveyor provides the centrifugal feeder with articles from the silo is managed by a photo-cell device which is constantly gauging how many articles are in the centrifugal feeder, and via the PLC control of the centrifugal feeder it adjusts the provisioning through start/stop of the conveyor.

The quantity of articles on the conveyor is adjusted by means of the control device at the outlet of the silo.

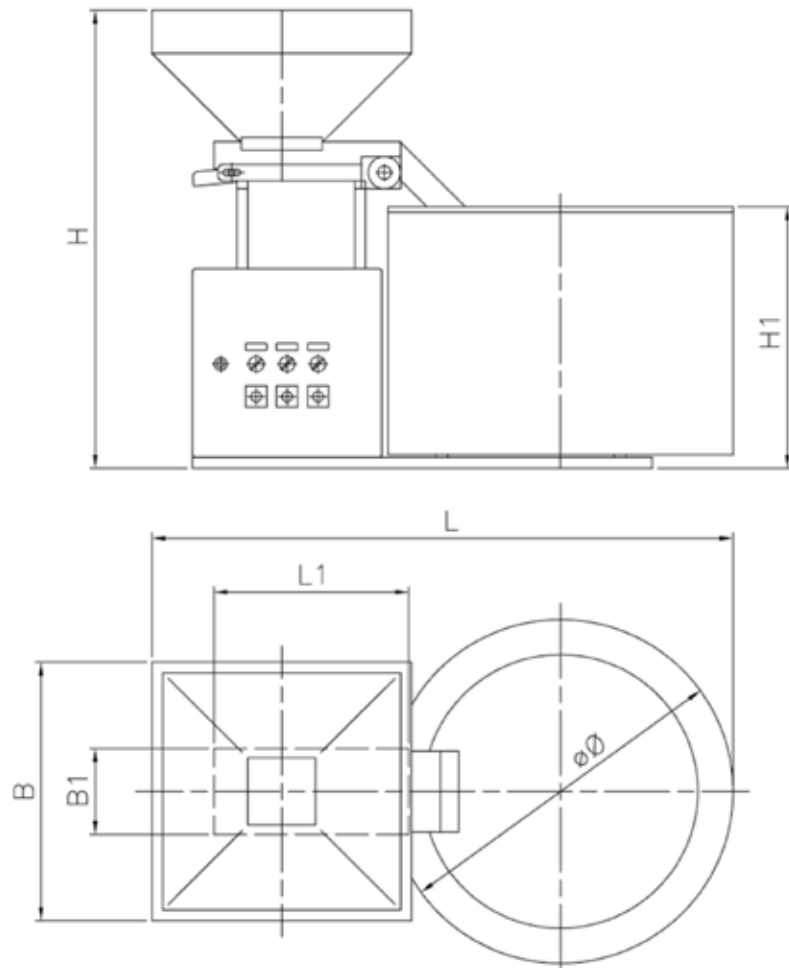
The input quantity of articles is also adjusted through the infinitely variable speed of the conveyor.

The article outlet of the centrifugal feeder is built individually depending on the shape of the article. Therefore the operation/control device ensuring a correct grading and orientation of the articles is also individual.

Very often the control of the article outlet is integrated in the control of the mounting machine in order that the number of articles required is provided in a satisfactory way.

## Centrifugal Feeder FG-350/FG-500/FG-800

Dimensions in mm::



| Type/Dim | L    | B   | H   | L1  | B1  | H1  | øØ   |
|----------|------|-----|-----|-----|-----|-----|------|
| FG-350   | 920  | 480 | 740 | 360 | 160 | 350 | 440  |
| FG-500   | 1075 | 480 | 850 | 360 | 160 | 485 | 640  |
| FG-800   | 1350 | 480 | 900 | 360 | 160 | 550 | 1100 |

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