

Dosing auger in stainless steel

Type: DSN



Features

For the dosing of powders and granulates.

The function range may be increased to include loss-in-weight dosing, coarse and fine dosing, etc.

May be manufactured after customers requirements.

Simple montage.

Hygienic design in stainless steel.

Easy to clean and maintain.

Application

Dosing worms of the type DSN are produced in stainless steel and are mainly used for the dosing of powders and small granulates.

The housing is built as a funnel that can be manufactured with a circular as well as a rectangular inlet. The inlet may be connected to a dust tight link from a silo, a bigbag emptier, etc.

In order to prevent that the material bridge over the dosing worm, it may be necessary to influence the fluidizing properties of the powder. For that purpose, there are two methods. One is to mount a vibrator on the funnel. Another method is to blow compressed

air through a filter plate in order to fluidize the powder.

The filter plate is made of FDA-approved synthetic material. The compressed air must be cleaned for the actual purpose.

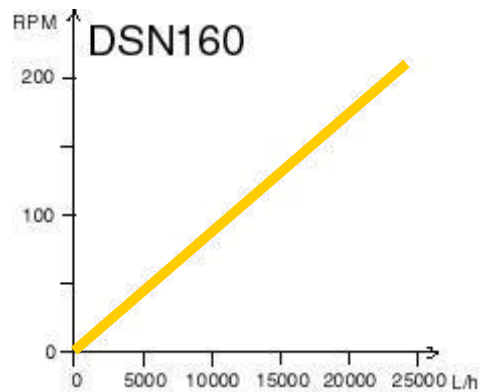
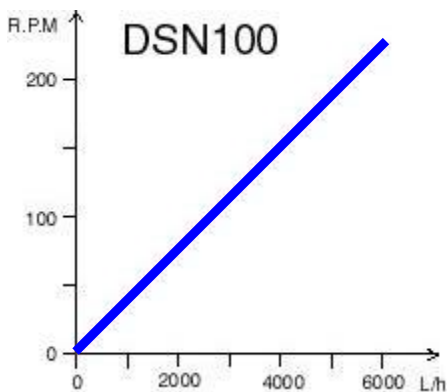
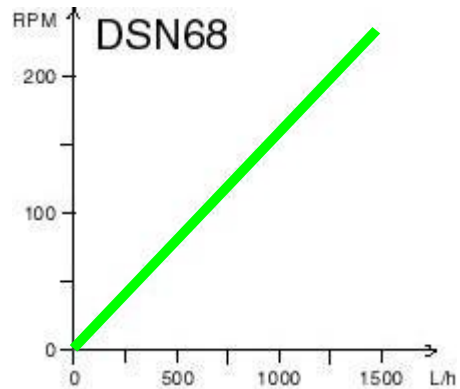
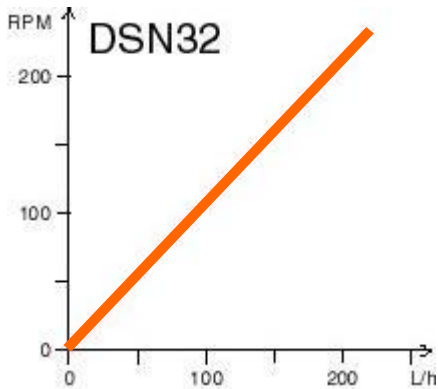
When the dosing auger is combined with a TEKFA weighing system the function range may be broadened out to include loss-in-weight dosing, coarse and fine dosing, etc.

Special dosing worms may be manufactured after the customer's requirements. In order to obtain the best dosing, TEKFA recommends to make a dosing test of the actual material.

Jan 02 – UK

Specifications and technical data

Theoretical capacities in L/h for 4 sizes and with horizontal dosing. Please note that the x-axis scales are different. When the inclination is increased, the theoretical capacity decreases and the curve is getting steeper.



Screw
Motor

Stainless steel, AISI304.
Norm gear-motor, 3x400 VAC.
Depending on size of the dosing worm and product type, the effect of the motor may be changed.

Housing
Dimensions
Design

Stainless steel, AISI304.
As arranged.
Funnel with circular or rectangular/quadratic opening in the top, depending on the connection.

Options

Bigbag-emptying station.
Control of material flow.
Bigbag filling station.
Fluidizing plate for a better emptying of difficult materials from the funnel.
Vibrator for a better emptying process from the funnel..