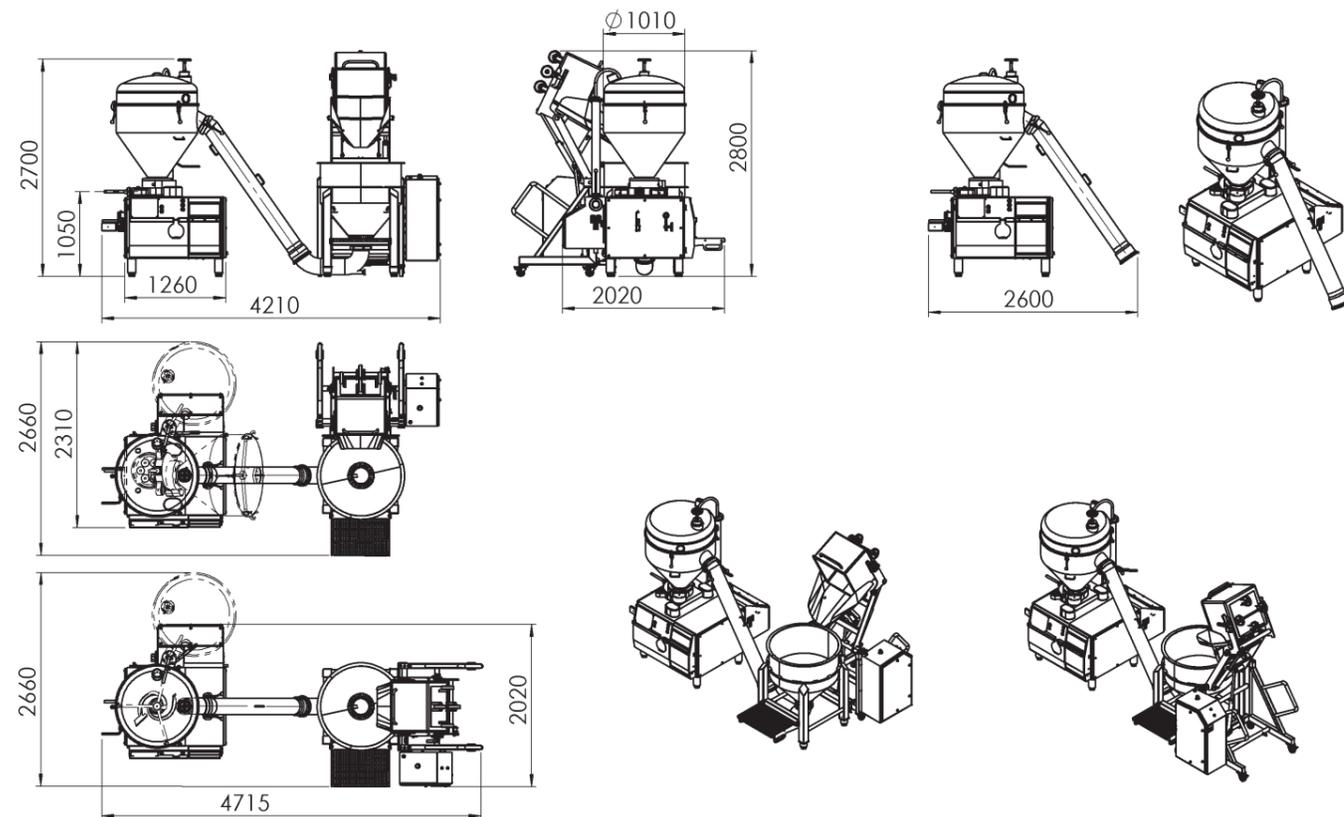


**K-Line
KK500 DV
Dual
Vacuum
System**



Configurations of KK500 DV - Silo -loading



KK500 DV hopper: 500 liters
with automatic suction loading
by negative pressure
Suction tube: 200 mm with adjustable flap valve
Manual swivel opening mechanism.

Internal vacuum: 40 cbm/h
Vacuum valve block for external or
Vacuum system for DV: 100 cbm/h, 2,2 KW
Compressed air DIN ISO 8573-1 class 2 necessary
Air demand 6 bar/10 ltr./min.
Digital measuring and control of the filling level.
Double-sided loading

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Professional application thanks to an innovative vacuum technology

fully electronic, continual piston filling machine
for **STRAIGHTFILLING** and **PORTIONING**
with Frey Top Line Servo Drive
with dual vacuum system
and additional stirrer drive
for highest product quality and flow rate
especially suitable for filling
sensible products thanks to the circular piston filling system

KK500 DV + silo + feeding for silo



Dual vacuum technology for best product quality

The use of two vacuum systems in meat pump and hopper brings important advantages to the user compared to the ordinary loading over an open filling hopper.

Evacuation of rest air

Already during loading the product is placed under vacuum, thereby importantly more rest air is removed from the product. The optical appearance of the first cut is more homogeneous and the shelf life of the product is increased.

Portioning exactness

The feeding supply process of the product to the meat pump is more regular and gentle. Thereby at the same time the portioning exactness is improved and a high filling performance is achieved.

Product variety

The dual vacuum generates highest bond and homogeneity of products with whole muscle pieces.

Suitable products:

- Cooked sausage with or without inserts
- Cooked ham with pieces up to 800 g
- Cooked salami

A further advantage results from the automatic loading of the filling hopper combined with the continual filling process.



Cleaning position



Filling hopper with double stirrer drive, feeder screw and feed opening for vacuum loading



Casing for DV-vacuum pump

Silo for loading

Lifting and dumping device

Construction / Function

In the dual vacuum system additional vacuum is built up in the hopper. Hereto the hopper is closed with a vacuum cover. Through a suction tube the product is directly sucked out of the bottom hopper. The loading process of the upper hopper is controlled from the machine control. The filling level is permanently controlled by a filling level sensor.

The opening gap can infinitely be adjusted from 0 - 100 mm via the manual valve controller. Especially with cooked sausage a small gap prevents the product from tearing. Thereby air bubbles get to the surface and are being completely eliminated. With a large gap, for example cooked ham with large pieces can carefully be sucked in without any further grinding.

Handling

Prior to let built up vacuum in the hopper, the bottom hopper must be charged with the product. If vacuum for the filling hopper is pending, which before has been set on the control, the working hopper is automatically sucking the product through the suction tube out of the bottom hopper. An electronic sensor for the filling level hereby controls constantly the degree of temperature in the working hopper. By achieving the filling level, which before has been set, the filling valve is automatically closed. Now the filling process can be started. If the filling level in the working hopper sinks due to the constant decrease of the material under a certain value preset on the control, the filling valve automatically starts to refill. By pressing a button, if the cover is completely opened, the hopper can be swivelled into the cleaning position.

Filling hopper

The filling hopper has a content of 500 liters with automatic suction loading by negative pressure. The product is sucked into the hopper through a 200mm suction tube with adjustable flap valve.

A double-sided feeding ensures an especially constant loading of the cylindrical filling cylinders of the external vacuum.

If connected to an external vacuum system, the loading is controlled by a vacuum valve block.

The suction tube is cleaned with a cleaning pig. The vacuum cover can be swivelled to the side. Now the filling hopper can hydraulically be swivelled backwards.

SILO KK500

Optionally a silo can be used for loading the KK500 DV with a content of 600 liters, the connection to a suction pipe with a diameter of 200 mm is included. The silo can be reached over a cleaning footstep, adjustable in height and connectable to the model KK500, completely made of stainless steel.

Loading of the SILO

Hydraulically driven loading system for 200 liters normed trolleys. Loading from back or from the filling side.

The quality improvement is clearly visible. At the end the product counts!