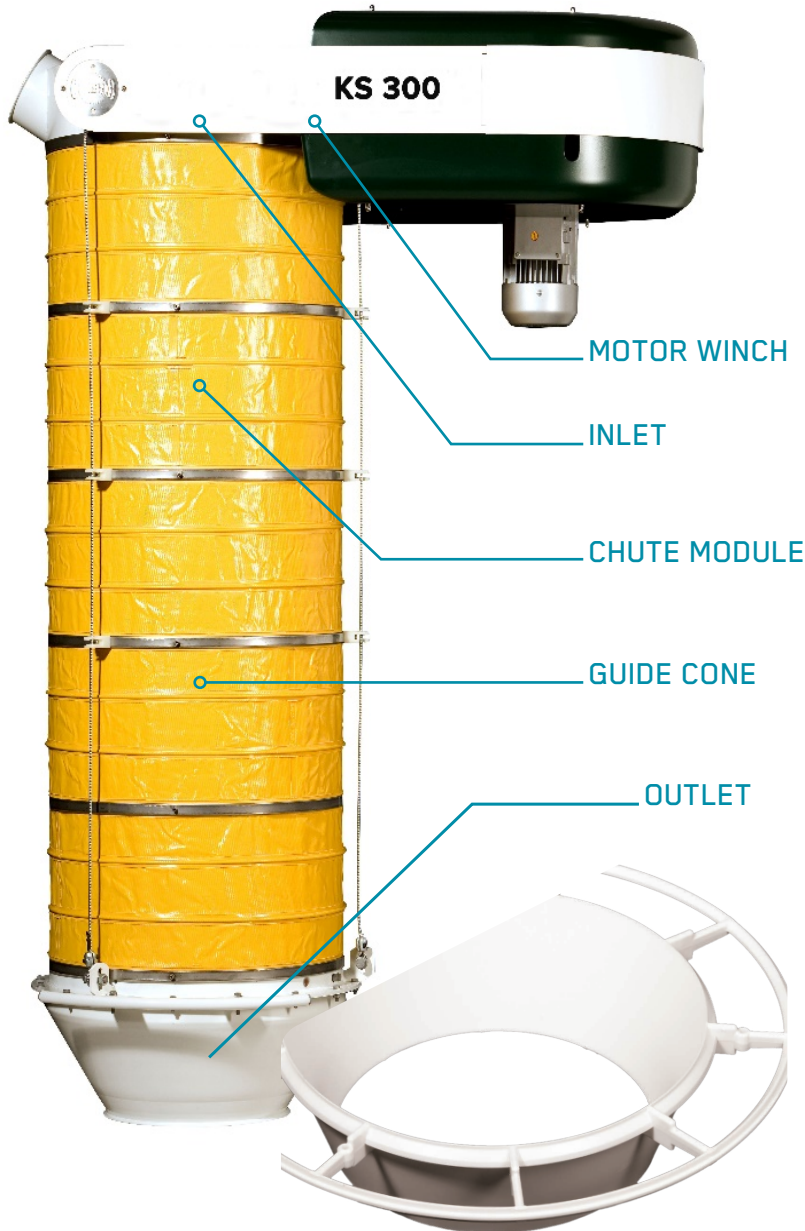


K-LoadUFlex Conveyor Loading Chutes



SAFETY AND CLEAN ENVIRONMENT IN ONE PRODUCT

The process of outloading bulk goods is associated with the risk of creating waste and dust, as well as the dangers of explosion. These risks can have a negative impact on both environment, work safety and operational profitability.

ATEX APPROVAL



In applications where the products have a latent risk of creating a dust explosion, e.g. grain and sugar. It is therefore necessary that the modules are anti-static, and this is achieved by adding anti-static strips. These strips are connected to the in-sewn metal rings, thereby ensuring that no spark can occur due to the built-up of static electricity.

INLETS - TYPE C



The inlet for type C + S is a standard inlet. The aspiration orifice is 150 mm in diameter, and variable inlet diameters are available, depending on the capacity required. Automatic closing function for negative pressure and false air valves are available as accessories for type S inlets.



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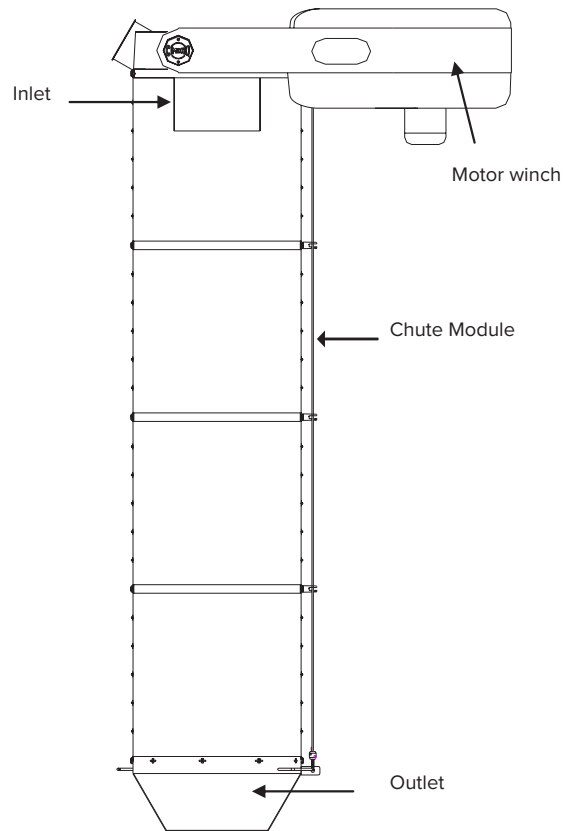
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K-LoadUFlex Conveyor Loading Chutes - KC 300 Series



Technical Information - KC 300	
Inlet	Cylindrical Inlet tube in 2 mm steel. Fitting Ø300 PN10 flange (DIN 2576B). Mounted with 12 off M20 Bolts Exhaust connection Ø150.
Chute Modules	Type E - Extended: Yellow. PVC/Polyester Ø600mm/H=600mm. Temperature -35°C - +70°C Connection ring in stainless steel Aisi 304, c/w 3 off wire guides in nylon.
Guide Cones	Type O - Support ring. Steel, H=30mm Type U - Ultramid. Polyester 6.6. H=150mm, pt=6mm. Type J - Steel Standard. Steel, H=150mm, pt=2mm.
Outlet	Type T – Tank Outlet with steel cone for loading in tanker truck.
Motor Winch	Motor 0.37 kW, 1400 rpm. Gear box ratio 100:1. Tight and slack wire indication External 3-point wire hoist system with high precision ball bearings and 3 off winch discs vertically fitted. Hoist wires Ø5mm available in steel, stainless steel Aisi316 or Long Life steel quality. Self-lubricating wire rollers in Ertalite TX.
General info	Max. loading capacity approx. 250 m ³ /hour. Recommended connecting value for aspiration 1200 m ³ /hour 100 Pa. Metal parts available in painted steel st. 37 or stainless steel Aisi 304. Other steel qualities on demand. Surface treatment St. 37: Iron phosphating, 80 micron coating RAL 9010 pure white. Surface treatment Aisi 304: Acid-washed without any further treatment Motor winch covers in ABS - RAL 6005 dark green Available with full approval and certificates for location in ATEX zone 21 and 22 (zone 20 inside the chute)



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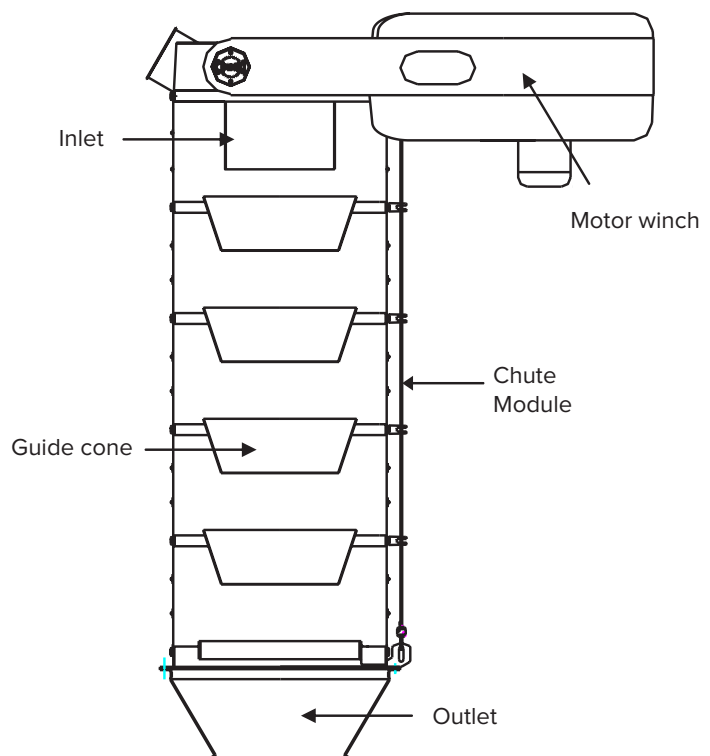
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K-LoadUFlex Conveyor Loading Chutes - KS 300 Series



Technical information - KS 300	
Inlet	Cylindrical Inlet tube in 2 mm steel. Fitting Ø300 PN10 flange (DIN 2576B). Mounted with 12 off M20 bolts. Exhaust connection Ø150, optionally with automatic closing function.
Chute Modules	Type Y - Standard: Yellow. PVC/Polyester. Ø600mm/H=300mm. Temperature -35°C - +70°C Type M - Food Grade: Light Grey. PVC/Polyester. Ø600mm/H=300mm. Temperature -30°C - +70°C Type W - Special: Misc. PVC/Polyester. Ø600mm/H=300mm. Temperature -35°C - +70°C Type B - Heavy Duty: Black. Synthetic rubber. Ø600mm/H=300mm. Temperature -40°C - +130°C Type G - Extreme temperature: Grey. Teflon/Fiber glass. Ø600mm/H=300mm. Temperature -35°C - +260°C Type R - High temperature: Red. Polyester and fiber/silicone rubber. Ø600/H300mm. Temp. -40°C - +150°C (peak +220°C) Type Z - Low temperature: Green. PVC/PU. Ø600mm/H300mm. Temperature -60° C - +70° C Connection ring in stainless steel Aisi 304, c/w 3 off wire guides in nylon.
Guide Cones	Type O - Support ring. Steel, H=30mm Type U - Ultramid. Polyamide 6.6. H=150mm, pt=6mm. Type J - Steel Standard. Steel, H=150mm, pt=2mm.
Outlet	Type T – Tank Outlet with steel cone for loading in tanker truck. Type F – Flat Outlet with dust skirt for loading in open truck. Type M – Multi Outlet with steel cone and dust skirt for loading in tanker truck and open truck.
Motor Winch	Motor 0.55 -2.2 kW, 1400 rpm. Gear box ratio 100:1. Tight and slack wire indication. External 3-point wire hoist system with high precision ball bearings and 3 off winch discs vertically fitted. Hoist wires Ø5mm available in steel, stainless steel Aisi316 or Long Life steel quality. Self-lubricating wire rollers in Ertalite TX, alternatively steel/stainless steel with bronze bearing
General info	Max. loading capacity approx. 250 m³/hour. Recommended connecting value for aspiration 1200 m³/hour 100 Pa. Metal parts available in painted steel st. 37 or stainless steel Aisi 304. Other steel qualities on demand. Surface treatment St. 37: Iron phosphating, 80 micron coating RAL 9010 pure white. Surface treatment Aisi 304: Acid-washed without any further treatment Motor winch covers in ABS - RAL 6005 dark green. Available with full approval and certificates for location in ATEX zone 21 and 22 (zone 20 inside the chute)



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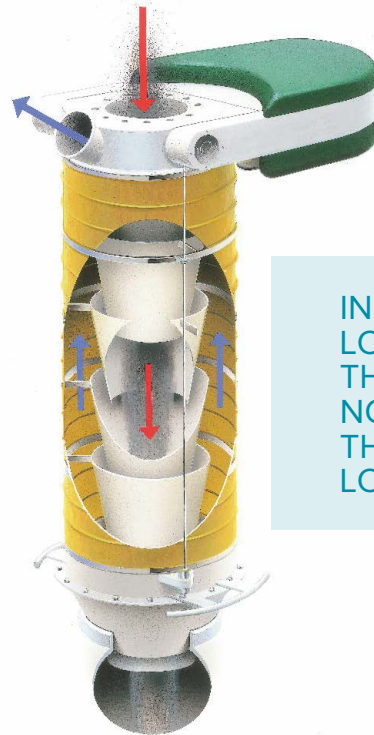
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Principals of Loading

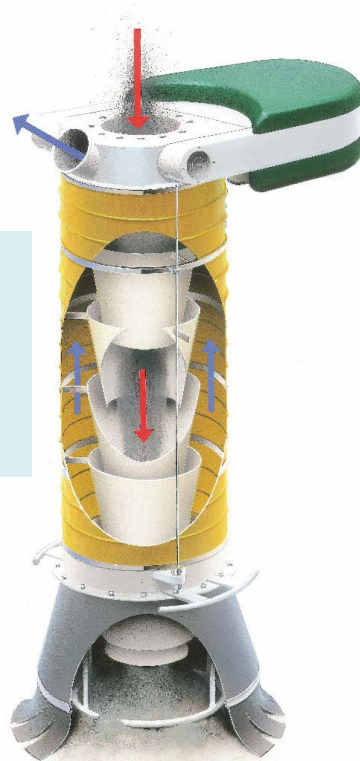
CLOSED LOADING

- The outlet rests on the tanker's loading hatch creating a dust-free connection.
- A free material stream passes through a column of open, overlapping guide cones.
- A reverse air jet exhaust produces negative pressure which is necessary to eliminate dust creation.
- An indicator mounted in the outlet automatically stops the loading process when the tanker is full.



IN A CLOSED LOADING SYSTEM THE OUTLET NOZZLE RESTS ON THE TANKERS LOADING HATCH

IN THE OPEN LOADING SYSTEM THE LOADING CHUTE OUTLET RESTS ON THE PRODUCT PILE



OPEN LOADING

- The loading chute outlet rests on the product pile.
- A free material stream passes through a column of open, overlapping guide cones.
- A reverse air jet exhaust produces negative pressure which is necessary to eliminate dust creation.
- An indicator mounted in the outlet automatically raises the loading chute



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K-LoadUFlex - Chute Modules

TYPE Y WITH/WITHOUT ANTISTATIC STRIPS



The standard module for Moduflex loading chute is in PVC-clad polyamide with the designation PA700, in a yellow colour code. This module may be utilised with many different products, provided that the product temperature does not exceed 70°C.

TYPE W



The white module has the same characteristics as the standard module, but the “colourless” white version may be more suitable for certain types of product. Other colours are available on request.

TYPE M



For food products a PVC-clad polyester module in a light grey colour can be used. The material is approved for drinking water, and can thus be used with all kinds of foodstuffs, provided that the product temperature does not exceed 70°C. The module is also resistant to UV light, rot and fungus.

TYPE G



For very demanding tasks – i.e. with respect to the temperature or chemical composition of the product – a dark grey Teflon-clad fibreglass module is used. This module has a working range of up to 260°C, and can resist almost all kinds of external impact.

TYPE B



The NPG module is in a black chloroprene rubber-clad polyamide material which is resistant towards many types of chemical impact, has a good wearing quality and offer high protection against UV light. The NPG module has a working range of up to 130°C

TYPE R



The red module material is Valmex Corotex P250, a rusty-red polyester and fibre glass fabrics coated with silicone rubber on both sides. The type R module has a continuous working temperature area ranging from -40°C and 150°C with short term working temperature on 220°C.



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