Application

Volumetric feeding of free flowing to very poorly flowing powders (e.g. lumpy, moist or bridge building materials) as well as fibers, flakes and other bulk materials.

The feeder can be upgraded to a loss-in-weight feeder system at any time.

Design

Twin screw feeder with interchangeable feeding tools.

All parts in contact with the material being fed are stainless steel. Feeding equipment is easy to disassemble. The horizontal agitator gently moves the bulk material to the large throat and then into the screws. Feeder screws are easily interchangeable.

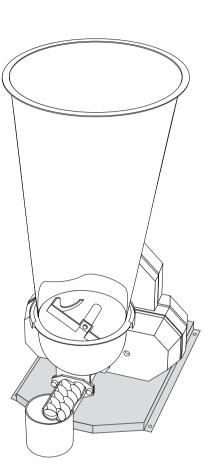
This equipment conforms to CE standards regarding EMC and safety.

Controller: (see separate data sheets)

The SmartConnex[®] control system allows individual or multi-component control. Each feeder has its own control module. Connection between feeders, operator interface and smart I/O is via an industrial network. A variety of protocols is available for connection to the plant's host system.

Hazardous Location Options: (see sheet I-000002)

 NEC Class II, Div. 2, Groups F & G / Class II, Div. 1, Groups F & G Class I, Div. 2, Groups C & D / Class I, Div. 1, Groups C & D
ATEX 3D/3D, 3D/2D, 3G/3G, 2GD/2GD (outside/inside)



Feed Screws and Feed Rates

Actual feeder screws are determined based on the material being fed. **Attention:** The following rates are theoretical values for free flowing materials being fed volumetrically. Actual feed rates depend on individual material characteristics. The feed range for loss-in-weight feeders is somewhat smaller. For feed rates at the upper or lower limits of the theoretical range, check with a Coperion K-Tron Test Lab.

	Twin concave- profile screws	Twin auger screws	Twin spiral screws	Double auger screws		
Pitch	HHH	<u>ffff</u>		<i>\$\$\$\$</i> <i>\$\$\$\$</i>		Reduction/ Max Screw Speed (RPM)
Coarse	16 - 1600	25 - 2500	7.1 - 710	7.1 - 710	dm³/hr	High
Coarse	0.56 - 56	0.88 - 88	0.25 - 25	0.25 - 25	ft³/hr	3.3:1 / 600
	4 - 396	6.3 - 625	1.8 - 178	1.8 - 178	dm³/hr	Low
	0.14 - 14	0.22 - 22	0.06 - 6.3	0.06 - 6.3	ft³/hr	16.7:1 / 120
Fine	7.10 - 710	11.3 - 1130	4.96 - 496	4.96 - 496	dm³/hr	High
	0.250 - 25.0	0.400 - 40.0	0.175 - 17.5	0.175 - 17.5	ft³/hr	3.3:1 / 600
	1.78 - 178	2.83 - 283	1.25 - 125	1.25 - 125	dm³/hr	Low
	0.063 - 6.30	0.100 - 10.0	0.044 - 4.40	0.044 - 4.40	ft³/hr	16.7:1 / 120

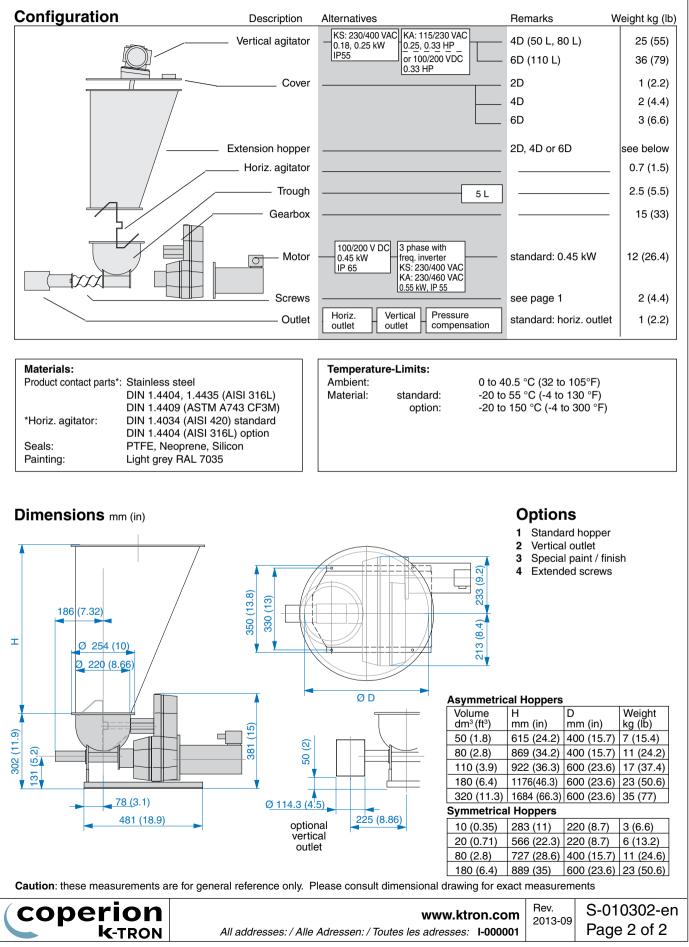
DC-motor with speed controller / Range 1 : 100 / Max. motor speed 2000 RPM

Feed rates when using AC motors: The feed rates may here be roughly estimated through a calculation using the screw speeds. Europe/Asia: AC motor with frequency inverter / Range 1 : 17 / Max. motor speed 2440 RPM Americas: AC motor with frequency inverter / Range 1 : 12 / Max. motor speed 1725 RPM

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Coperion K-Tron Product Specification Twin Screw Volumetric Feeder

K2-MV-T35



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