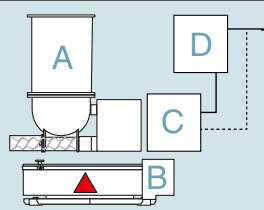


Coperion K-Tron Product Specification

Loss-in-Weight Belt Feeder

K-ML-D5-FB130



Ext. communication to host system
A Feeder
B Weighing system
C Control Module
D Operator interface

Each Coperion K-Tron weigh feeder consists of the components A, B, C and D.

Component A is specified here.

Application

Gravimetric feeding of flakes, chips, pellets and similar bulk materials. The feeder can be equipped with an optional agitator for feeding powders with special characteristics (e.g. powders with very low melting points, powders with wax additives, or powders with very abrasive characteristics).

Design

The belt feeder with drive unit and storage hopper are mounted on a D5 scale. The housing is made of stainless steel. The removable side cover is equipped with a window for observing the material flow. Slide gates at the hopper outlet allow the material flow to be easily adjusted. The easy to clean belt is made of a polyurethane coated polyester. The unit can be easily cleaned by sliding the conveyor out of the housing. For bulk materials which tend to clump, a brush is fixed at the outlet of the belt. The scale housing is completely closed and is suitable where quick and easy cleaning is essential.

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:

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 (outside/inside)



Sample Feed Rates

The theoretical throughput range is influenced by feeder configuration and material characteristics. The sample feed rates below were tested with a free-flowing material (semolina, bulk density 0.783 kg/dm³).

Attention: Actual feed rates depend on individual material characteristics. For feed rates at the upper or lower limits of the theoretical range, check with a Coperion K-Tron Test Lab.

Gear transmission		20 : 1
Belt speed		0.15 - 9.5 m/min (0.5 - 31.2 ft/min)
Max. feed rate range	dm ³ /h	0.1 - 1400
	ft ³ /h	0.004 - 49.4

Feed rates shown are with servo motor and KCM controller (max. motor speed 2000 RPM). For feed rates with DC or AC motors consult factory.

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Configuration

Description	Selection	Remarks	Weight kg [lb]
Vertical agitator	EMEA/Asia: 230/400 VAC 180 W, IP55 Americas: 230/460 VAC 0.25 HP		17 [37.4]
Cover		4D	2.5 [5.5]
		6D	5.5 [12]
Extension hopper	Adjustable inlet size: max. 70 x 20 mm (2.76 x 0.79 in) min. 20 x 1 mm (0.79 x 0.04 in)	4D - 25 dm³ [0.9 ft³] 4D - 50 dm³ [1.8 ft³] 6D - 75 dm³ [2.6 ft³]	4 [8.8] 6 [13.2] 11 [24.2]
Motor	Servo motor - 800 W, 240 VAC, IP65 KCM-III requires 230 VAC single phase (US split-phase, 3 wire balanced, L1-N-L2)		34 [75]
Outlet	Vertical outlet Pressure compensation	std: vert. outlet	
Weigh bridge (gross capacity)	120 kg 264 lb 200 kg 440 lb	D5 IP65, NEMA 4	

Materials:

Material contact parts: Stainless steel
DIN 1.4404, 1.4435 (AISI 316L)

Belt: polyester weave,
polyurethane coated

Painting: Light gray RAL 7035

Weighing Range:

Gross weighbridge capacity (60, 120 or 200 kg) less total feeder weight.

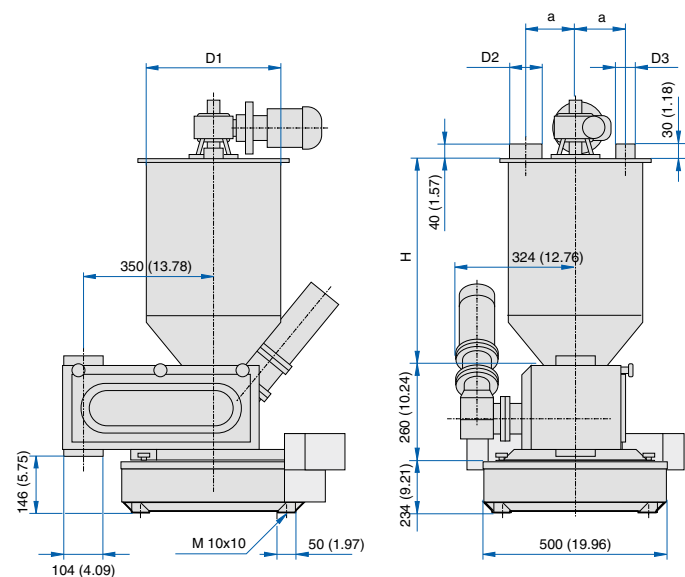
Temperature-Limits:

Ambient: 0...40°C [32...104°F]

Material: 0...50°C [32...122°F]

for other material temperatures contact factory

Dimensions mm [in]



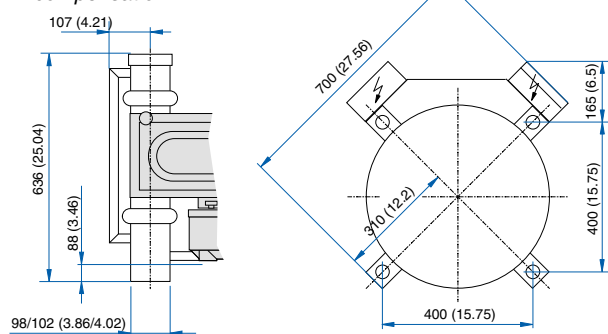
Options

- 1 Vertical agitator
- 2 Outlet with pressure compensation
- 3 Brush
- 4 Inlet chute for manual refill

Hoppers

	H	D1	D2	D3	a
25 L	375 [14.8]	363 [14.3]	104 [4.1]	54 [2.13]	135 [5.3]
50 L	575 [22.6]	363 [14.3]	104 [4.1]	54 [2.13]	135 [5.3]
75 L	469 [18.5]	597 [23.5]	154 [6.1]	104 [4.1]	220 [8.7]

Outlet with pressure compensation



Caution: these measurements are for general reference only. Please consult dimensional drawing for exact measurements