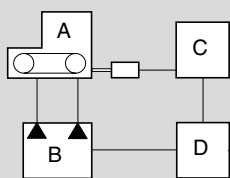


Coperion K-Tron Product Specification Loss-in-Weight Belt Feeder

K-ML-D5-FB130



- A Feeder
- B Weighing System
- C Control Module
- D Operator Interface
- Ext. communication to Host System

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: (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 (outside/inside)



Feed Rates

The feed rate range is 1 : 30.

Gear transmission		40 : 1	25 : 1
Belt speed		0.15 - 6 m/min (0.5 - 19.7ft/min)	0.25 - 9.5 m/min (0.8 - 31.2 ft/min)
Maximum feed rate range	Minimum	1 dm³/h (0.04 ft³/h)	2.5 dm³/h (0.09 ft³/h)
	Maximum	780 dm³/h (27.5 ft³/h)	1200 dm³/h (42.4 ft³/h)

DC motor with KCM controller / Max. motor speed 2000 RPM
Vector-duty AC motor with KCM controller / Max. motor speed 1750 RPM

Coperion K-Tron Product Specification Loss-in-Weight Belt Feeder

K-ML-D5-FB130

Configuration

Description	Selection	Remarks	Weight kg (lb)
Vertical agitator	KS: 230/400 VAC 180 W, IP55		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 dm ³ (0.9 ft ³) 4D - 50 dm ³ (1.8 ft ³) 6D - 75 dm ³ (2.6 ft ³)	4 (8.8) 6 (13.2) 11 (24.2)
Motor	100/200 VDC 450 W IP65	CKS: 3x230 VAC CKA: 3x220 VAC 370/450 W IP65	std: 450 W DC 20:1 (option: 40:1, 80:1)
Outlet	Vertical outlet	Pressure compensation	std: vert. outlet
Weigh bridge (gross capacity)	120 kg 264 lb	200 kg 440 lb	IP65, NEMA 4
			33 (72.6)

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.

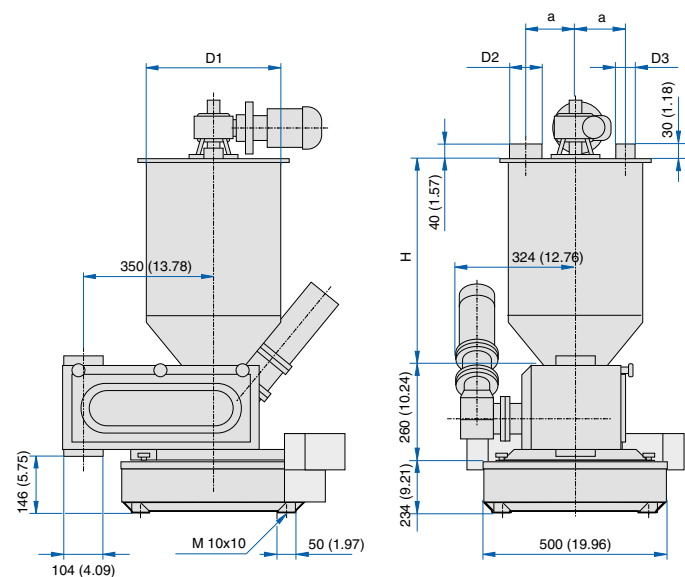
Temperature-Limits:

Ambient: 0 to 40°C (32 to 104°F)

Material: 0 to 50°C (32 to 122°F)

for other material temperatures contact factory

Dimensions mm (in)



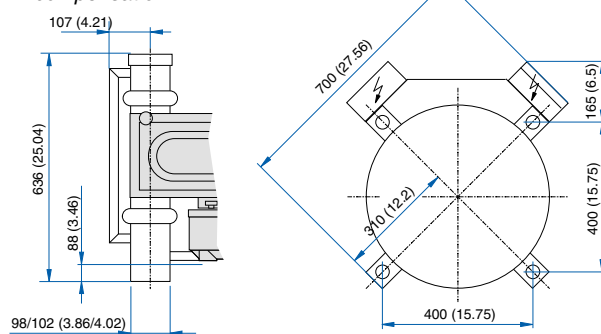
Options

- 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



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