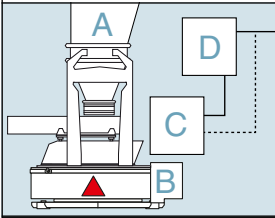


Coperion K-Tron Product Specification

Loss-in-Weight Vibratory Feeder

K3-ML-D5-V200
K3-HD-ML-D5-V200



- 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

Gentle, gravimetric feeding of free flowing bulk materials such as granules, flakes, fibers and powders. Especially suitable for friable products, abrasive products, products with non-uniform shapes, and glass fibers.

Design

Vibratory V200 feeder with open or closed feeder tray mounted on a D5 platform scale. The scale is stainless steel and the scale housing is completely enclosed. All parts in contact with the material being fed are stainless steel. The modular components are held together by V-clamps.

This equipment conforms to all applicable European Directives (e.g. Machinery, EMC) and is also listed by an NRTL as complying with the electrical safety standard UL 61010-1.

Features

- Continuous, even mass flow with minimal pulsations
- Special quick-release clamp mechanism on the feeder tray allows for quick product changeover
- HD version includes a hygienic silicone cover to enclose the complete drive assembly
- Lower maintenance requirements due to the absence of mechanical wear parts

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.

Vibratory Drive

The Coperion K-Tron vibratory drive is part of the control system and has been developed especially for use with feeders. The electronic control system provides a quick response to changing feed and environmental conditions. Unique pendulum technology provides shock absorption only parallel to the desired direction of motion, ensuring even material flow.

Hazardous Location Options

NEC	Class II, Division 2, Groups F & G Class I, Division 2, Groups C & D
ATEX	3G 3D / 2D (outside/inside)

Feed Rates

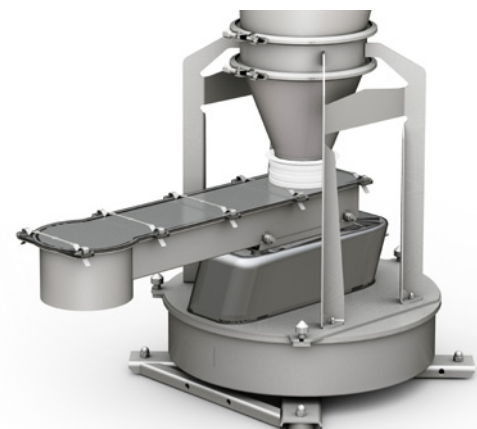
The feed rate range is influenced by feeder configuration and material characteristics. The sample feed rates below were tested with a free-flowing granulate (bulk density 0.62 kg/dm³).

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

V200	8 - 4000 dm³/h
	0.28 - 141.25 ft³/h



V200 vibratory feeder with open tray

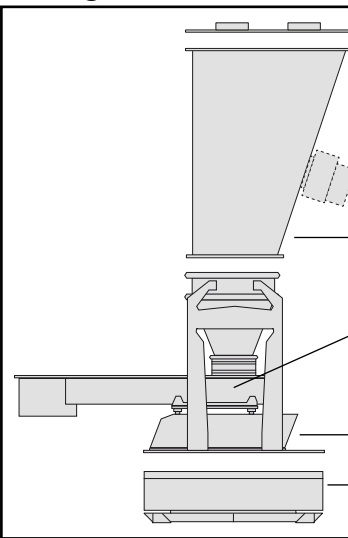


V200 vibratory feeder in Hygienic Design (HD) with closed tray

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

K3-ML-D5-V200
K3-HD-ML-D5-V200

Configuration

	Description	Selection	Remarks	Weight kg [lb]
	Cover		2D 4D 6D	1 [2.2] 2 [4.4] 3 [6.6]
	ActiFlow		optional (4D, 6D)	9.6 [21.6]
	Extension hopper		2D, 4D or 6D	see below
	Tray		open tray closed or HT tray	3 [6.6] 4 [8.8]
	Vibratory drive		weight incl. frame	25 [55]
	Scale (gross capacity)	60 kg 132 lb 120 kg 264 lb 200 kg 440 lb	D5 IP65, NEMA 4	32 [70]

Technical Data

Vibratory drive: 48 VDC, 0.6 A, IP65

Material contact parts:

Stainless steel: EN 1.4404 / 1.4435 (AISI 316L)
Closed tray cover: PMMA acrylic glass
Closed HT tray cover: PEEK plastic
Seals, gaskets: silicone

Weighing Range:

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

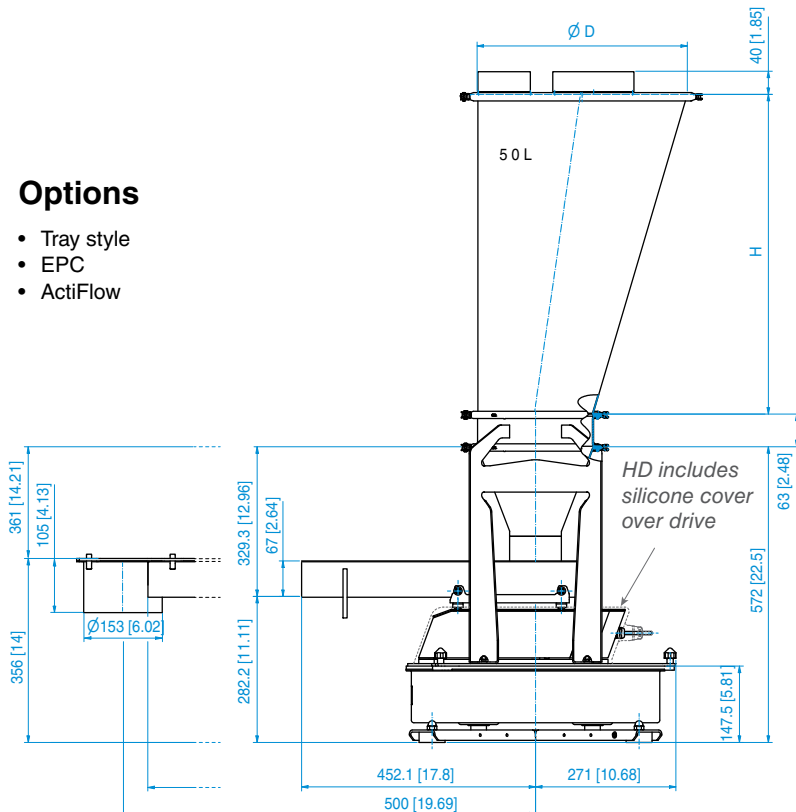
Temperature-Limits:

Ambient: 0...40°C [32...104°F]
Material with closed tray: -20...60°C [-4...140°F]
with open tray: -20...120°C [-4...248°F]
with closed HT tray: -20...180°C [-4...356°F]

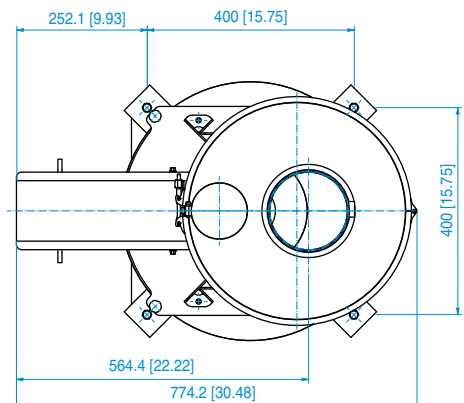
Dimensions mm [in]

Options

- Tray style
- EPC
- ActiFlow



Volume dm³ [ft³]	H mm [in]	D mm [in]	Weight kg [lb]
Asymmetrical Hoppers			
50 [1.76]	615 [24.2]	400 [15.75]	7 [15.4]
80 [2.8]	869 [34.2]	400 [15.75]	11 [24.2]
110 [3.88]	922 [36.3]	600 [23.62]	17 [37.4]
Cylindrical Hoppers			
10 [0.35]	283 [11]	220 [8.66]	3 [6.6]
20 [0.71]	566 [22.28]	220 [8.66]	6 [13.2]



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