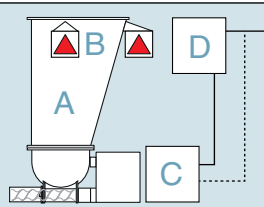


Coperion K-Tron Product Specification

Loss-in-Weight Twin Screw Feeder

K-ML-KT35



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

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

Component A is specified here.

Application

Gravimetric 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.

Design

Twin screw feeder with interchangeable feeding tools suspended in a three-point weighing system with K-SFT load cells. 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 all applicable European Directives (e.g. Machinery, EMC).

Controller: (see separate data sheets)

The SmartConnex™ control system allows individual or multi-component control. Interface-modules for computer communications are installed in the control module.

Hazardous Location Options:

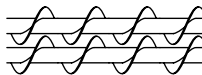
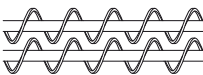
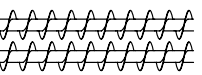
- NEC Class II, Div. 2, Groups F & G / Class II, Div. 1, Groups F & G
- Class I, Div. 2, Groups C & D / Class I, Div. 1, Groups C & D
- ATEX 3D/3D, 3D/2D, 3G/3G, 2D/2D, 2G/2G (outside/inside)



Feed Screws and Sample Feed Rates

Feeder screws are determined based on the material being fed. 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. At higher screw speeds a poorly flowing powder will not achieve the full throughput possible with a free-flowing material due to reduced degree screw fill. For feed rates at the upper or lower limits of the theoretical range, check with a Coperion K-Tron Test Lab.

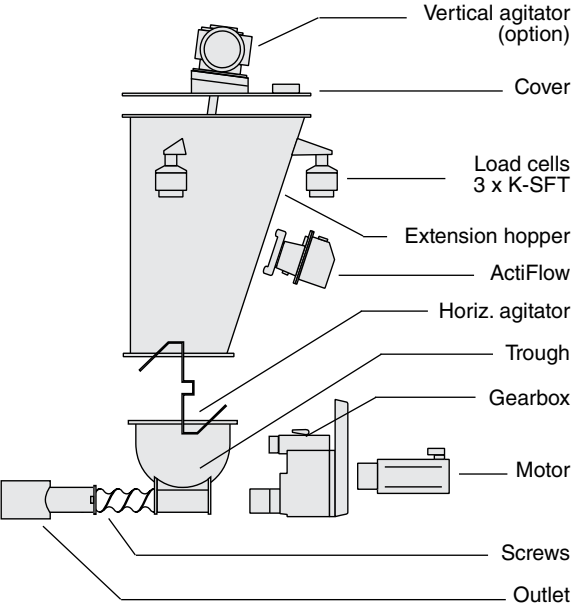
Pitch		 Twin concave screws	 Twin auger screws	 Twin spiral screws	 Double auger screws	Max. screw speed
coarse	dm³/h	3.1 - 1466	5.6 - 2346	3.6 - 1446	4.6 - 1772	621 RPM
	ft³/h	0.11 - 51.75	0.2 - 82.81	0.13 - 51.04	0.16 - 62.55	
fine	dm³/h	2.3 - 952	2.6 - 1418	1.9 - 1058	2.5 - 1298	
	ft³/h	0.08 - 33.61	0.09 - 50.06	0.07 - 37.35	0.09 - 45.82	

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.

Coperion K-Tron Product Specification Loss-in-Weight Twin Screw Feeder

K-ML-KT35

Configuration

Description	Selection	Remarks	Weight kg [lb]
	EMEA/Asia: 230/400 VAC 180 250 W, IP55 Americas: 230/460 VAC 0.25, 0.33 HP	4D (50 L, 80 L)	25 [55]
		6D (110 L, 180 L)	36 [79]
		4D	2 [4.4]
		6D	3 [6.6]
	30 kg 66 lb 60 kg 132 lb 90 kg 198 lb 120 kg 264 lb	IP65, NEMA 4 gross weighing capacity	
		4D or 6D	see below
		option (4D, 6D)	9.6 [21.6]
			0.7 [1.5]
	5 L		2.5 [5.5]
			15 [33]
	Servo motor - 800 W, 240 VAC, IP65 KCM-III requires 230 VAC single phase (US split-phase, 3 wire balanced, L1-N-L2)		5.8 [12.8]
		see page 1	2 [4.4]
	Horiz. outlet Vertical outlet Pressure compensation	standard: horiz. outlet	1 [2.2]

Materials:

Material contact parts*: Stainless steel

EN 1.4404, 1.4435 (AISI 316L)

EN 1.4409 (ASTM A743 CF3M)

*Horiz. agitator:

EN 1.4034 (AISI 420) standard

EN 1.4404 (AISI 316L) option

Seals:

PTFE, Neoprene, silicone

Painting:

Light gray RAL 7035

Weighing Range:

Gross weighing capacity (e.g. 3 x 60 = 180 kg) less total feeder weight and less 10% reserve

Temperature-Limits:

Ambient: 0...40°C [32...104°F]

Material: 0...50°C [32...122°F]

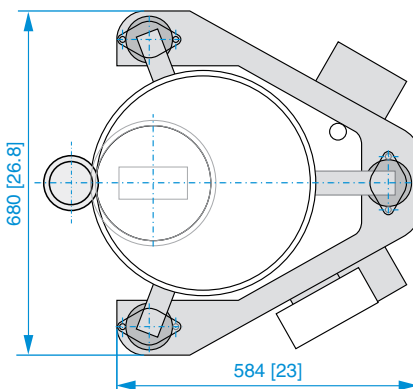
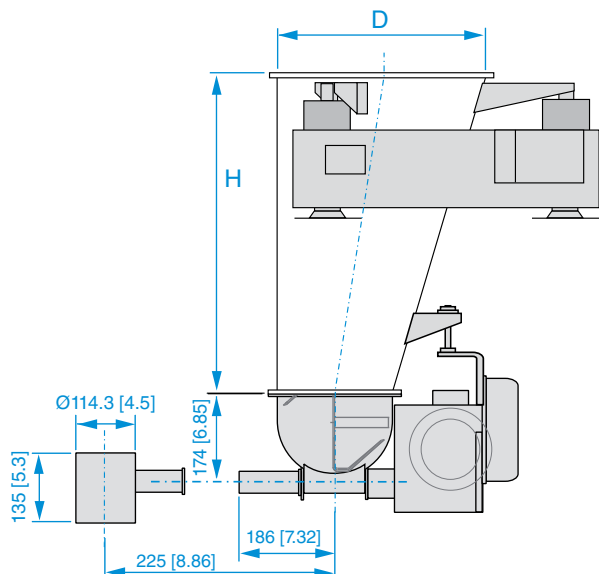
for other material temperatures contact factory

Dimensions mm [in]

Options

- 1 Hopper
- 2 Vertical outlet
- 3 Special paint
- 4 Extended screws

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]
180 [6.4]	1176 [46.3]	600 [23.62]	23 [50.6]
250 [8.8]	1430 [57.2]	600 [23.62]	29.5 [64.9]
320 [11.3]	1684 [66.3]	600 [23.62]	35 [77]



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