

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 free flowing powders, granules and other bulk materials.

Design

Single screw feeder with interchangeable feeding tool mounted on a D5 platform scale. All parts in contact with the material being fed are stainless steel. The scale housing is stainless steel and completely enclosed. 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

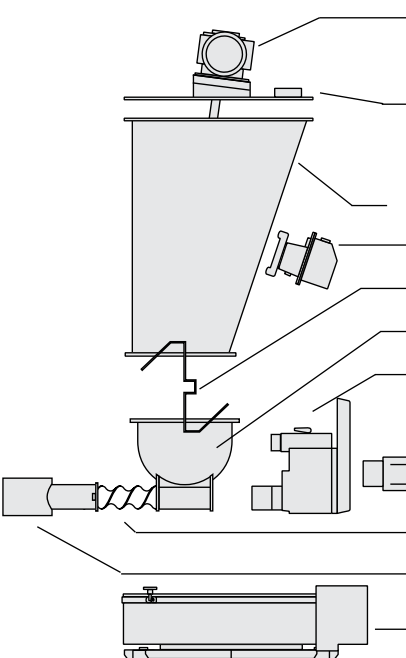
Feeder screws are determined based on the material being fed. The theoretical throughput range is influenced by feeder configuration and material characteristics. The sample feed rates below were tested with a free-flowing material (semolina, bulk density 0.783 kg/dm³).

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

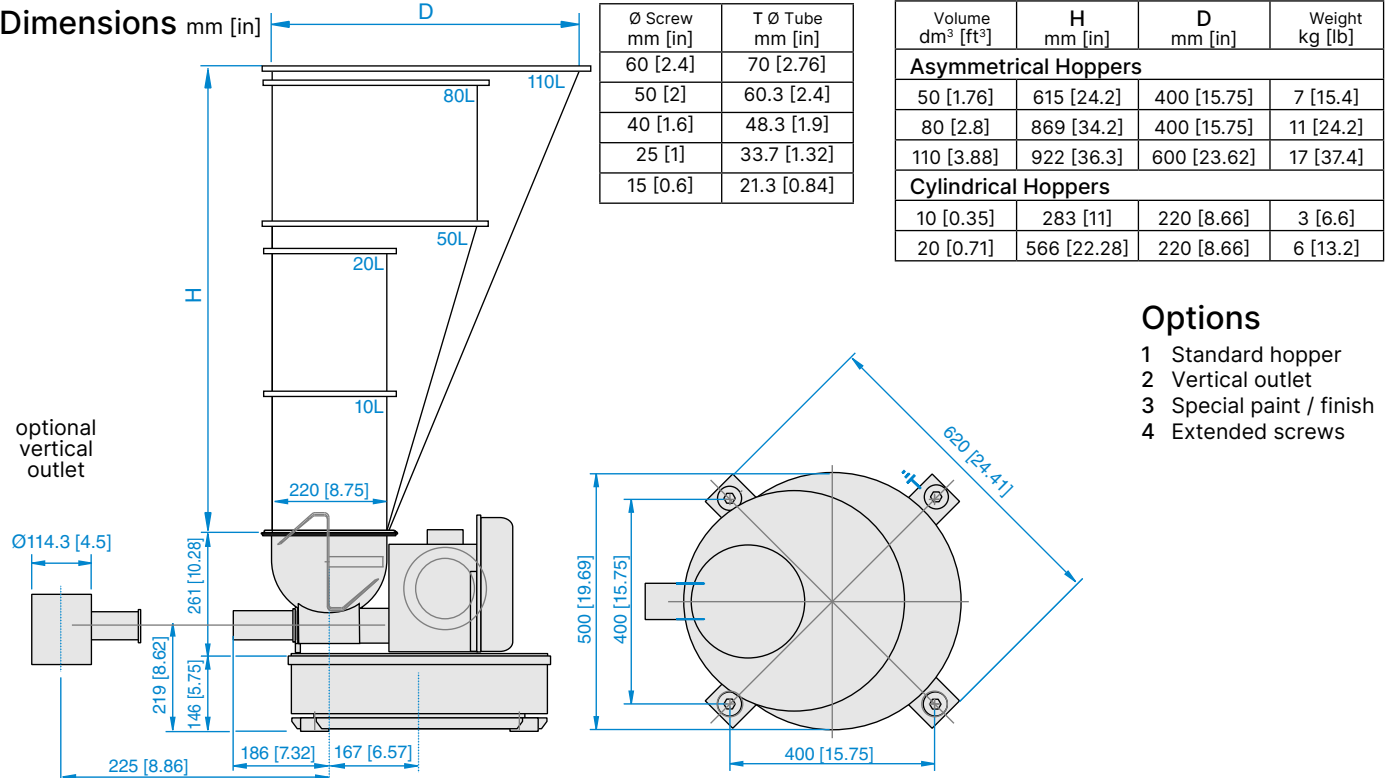
Pitch	DN Screw (Tube)	 Auger screws					 Spiral screws				
		ø15 (15)	ø25 (30)	ø40 (40)	ø50 (50)	ø60 (60)	ø15 (15)	ø25 (30)	ø40 (40)	ø45 (50)	ø60 (60)
coarse	dm³/h	0.14 - 65	0.8 - 332	2.6 - 979	7.3 - 2575	11 - 4140	0.14 - 69	0.8 - 360	3 - 1240	7.95 - 2194	12 - 3449
	ft³/h	0.005 - 2.29	0.03 - 11.72	0.09 - 34.6	0.26 - 91	0.39 - 146	0.005 - 2.44	0.03 - 12.7	0.11 - 43.77	0.28 - 77.45	0.42 - 122
fine	dm³/h	--	0.4 - 172	1.4 - 633	4.3 - 1847	6 - 2587	--	0.5 - 187	1.7 - 747	4.078 - 1591	7 - 2822
	ft³/h	--	0.01 - 6.07	0.05 - 22.3	0.15 - 65	0.21 - 91	--	0.02 - 6.6	0.06 - 26.4	0.14 - 56.2	0.25 - 100

Max. screw speed: 522 RPM

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.

Configuration	Description	Alternatives	Remarks	Weight kg [lb]
	Vertical agitator (option)	EME/Asia: 230/400 VAC 180 250 W, IP55 Americas: 230/460 VAC 0.25, 0.33 HP	4D (50 L, 80 L) 6D (110 L)	25 [55] 36 [79]
	Cover		2D 4D 6D	1 [2.2] 2 [4.4] 3 [6.6]
	Extension hopper		2D, 4D or 6D	see below
	ActiFlow		option (4D, 6D)	9.6 [21.6]
	Horiz. agitator			0.7 [1.5]
	Trough	5 L		2.5 [5.5]
	Gearbox			15 [33]
	Motor	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]
	Screws		see page 1	1 [2.2]
	Outlet	Horiz. outlet Vertical outlet Pressure compensation	standard: horiz. outlet	1 [2.2]
	Platform scale (gross capacity)	60 kg 132 lb 120 kg 264 lb 200 kg 440 lb	D5 IP65, NEMA 4	32 [70]

Materials: Product 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	Weighing Range: Gross scale 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 Painting: Light gray RAL 7035
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Caution: these measurements are for general reference only. Please consult dimensional drawing for exact measurements