

Application

Volumetric feeding of free flowing to very poorly flowing powders (e.g. lumpy, moist or bridge building materials), especially in pharma applications. The feeder can be upgraded to a loss-in-weight feeder system at any time.

All Coperion K-Tron pharmaceutical feeders are engineered to meet the rigid requirements of the industry. The feeder is designed according to cGMP guidelines, easy to clean and disassemble.

Design

Modular twin screw feeder. With the quick change design the feeder bowl can be quickly decoupled from the feeder drive, enabling simple and fast product changes. All twin and single screw feeder models can be interchanged on the same base.

All parts in contact with the material being fed are stainless steel. The modular components are held together by V-clamps. The horizontal agitator gently moves bulk material to the large throat and then into the discharge screws. This equipment conforms to CE standards regarding EMC and safety and is also listed by an NRTL as complying with the electrical safety standard UL 61010-1.

Features:

- Reduced footprint
- 2-degree pitch for improved WIP drainage
- Quick Change design for flexible ingredient changeover
- Single drive for complete feeding range

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)

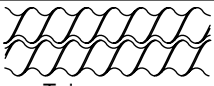
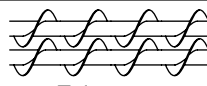
NEC	Class II, Div. 2, Groups F & G
	Class I, Div. 2, Groups C & D
ATEX	3G 3D / 3G 2D (outside/inside)



K3-PH-MV-QT35 with 50 liter hopper, baseplate and optional safety grill

Feeder Screws and Feed Rates

The feed rates below were tested with a free-flowing material (semolina, bulk density 0.783 kg/dm³). Actual feed screws will be determined by the material being fed. Feeder screws are easily interchangeable.

Pitch		 Twin concave screws	 Twin auger screws
coarse pitch	dm³/h	2.5 - 1386	4.4 - 2012
	ft³/h	0.09 - 48.9	0.16 - 71.1
fine pitch	dm³/h	1.63 - 791	2.2 - 1007
	ft³/h	0.06 - 27.9	0.08 - 35.6

CAUTION: Please contact the factory for feed rates less than 1 kg/h. Lower feed rates may be possible for some materials but tests must be done in the Test Lab to confirm feasibility. Material tests are also required for materials with bulk density of more than 0.8 kg/dm³.

Servo motor with KCM controller / Range 1:1267/ Max. motor speed 1900 RPM

