

- 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.

Applications

Accurate gravimetric feeding of liquids and pastes, in either continuous or batch operation.

The material is metered by a pump outside the scale area. The feed pump is selected according to the feeding capacity which is required.

The SmartConnex™ control system allows for single or multi-component control. For systems with a central controller, interface modules have been built into the control module.

When feeding liquids the special requirements of each application vary. For this reason this information leaflet can only provide an overview as to the various designs available.

Design

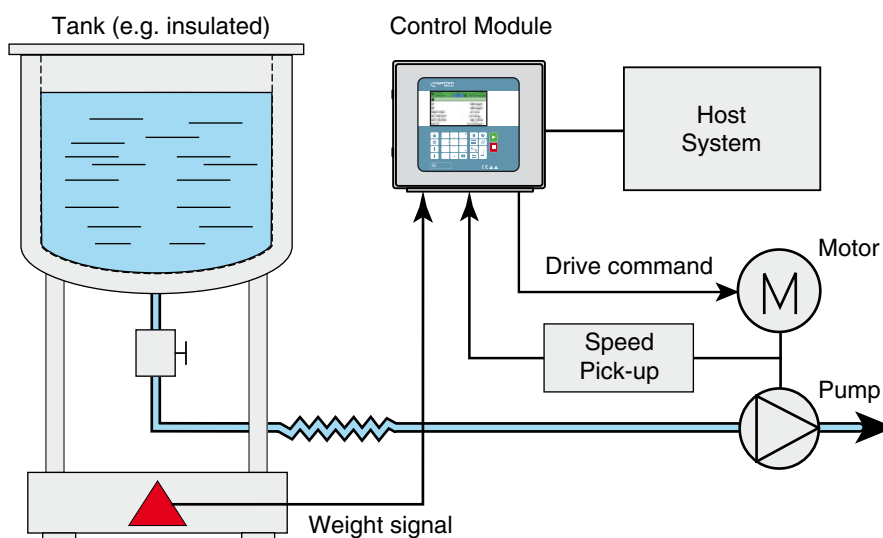
The storage tank is mounted on a platform scale. The exclusive, patented Smart Force Transducer (SFT) weighing technology features vibrating wire technology and an on-board microprocessor. The scale housing is stainless steel and completely closed.

The pump is located outside of the weighing area. A flexible connecting line is required between tank and pump. Depending on the application a hose made of silicone, natural rubber or PTFE may be used.

Depending on the needs of the application, additional equipment such as heaters or mixers can be supplied as well.



Configuration



Technical Data

Pump

- Pump drive by a DC motor with speed pick up or AC motor with Frequency Inverter. Feed rate according to requirements.
- Feeding capacity equivalent to pumping capacity.
Feeding capacity = ca. 1/60 to 1/300 of the gross capacity of the weigh bridge.
Smaller capacities have to be determined by tests.

Materials of construction

- Storage tank and weigh bridge: stainless steel, material no. DIN 1.4404 / 1.4435, AISI 316L
- Hose: silicone, natural rubber, PTFE, PVC

Weigh bridge

- Platform scale with gross scale capacity of: 60, 120 or 200 kg
- Weighing range: gross weighbridge capacity less total feeder weight.
- Enclosure protection: IP65

Tanks

- Various tank sizes are available, depending on the application.

Heating/Mixer

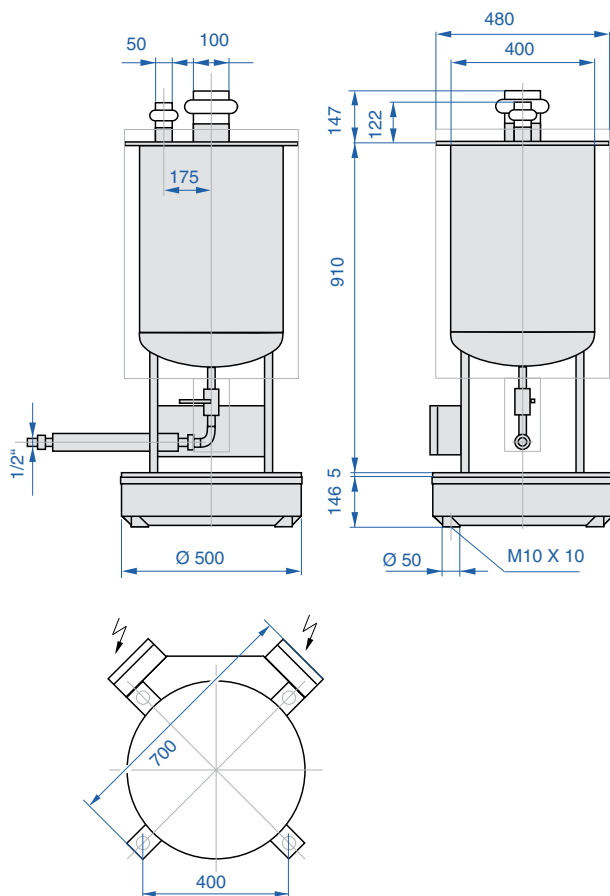
- optional

Hazardous Locations

- NEC compliant versions available

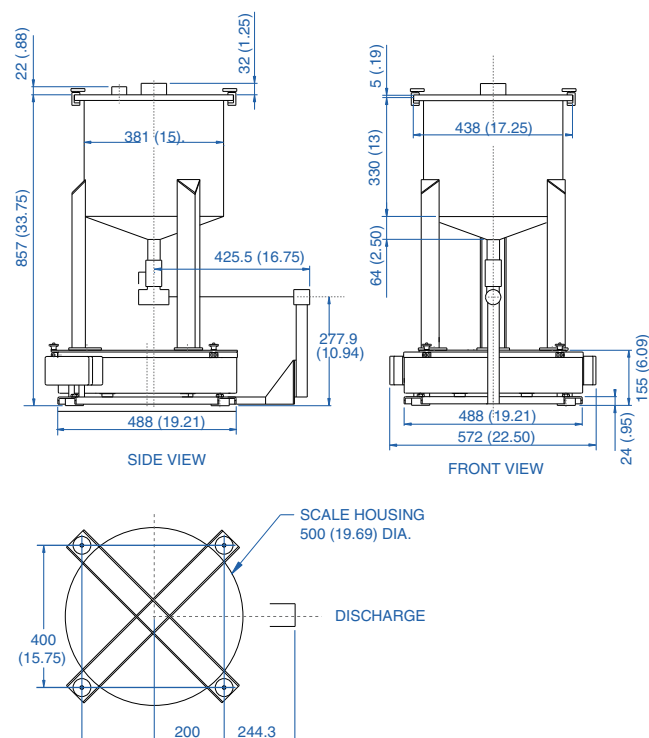
Example with 60L tank (Europe)

Dimensions in mm (in)



Example with 10 gal. tank (US)

Dimensions in mm (in)



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