



Fortress Metal Detectors



SYSTEM INSTALLATION GUIDE PHARMACEUTICAL METAL DETECTOR

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SYSTEM INSTALLATION GUIDE

Pharmaceutical Metal Detector

Assembly

The PHANTOM Pharmaceutical metal detector will arrive pre-mounted on the adjustable stand. All assemblies (i.e. power supply and user interface) required to operate the system are fully wired and ready to be connected to the mains supply. To reduce the risk of transit damage, the product feed chute and reject device are packed as separate items.

Note: The product chute and reject device must be cleaned and fitted to the unit before use.

Packing list

When you receive the PHANTOM pharmaceutical detector, the following items are included:

- Automatic reject device gate
- Product chute
- Stainless steel adjustable stand
- Metal detector test samples
- PHANTOM Tablet Metal Detector Manual
- Certificate of conformance

Reject Mechanism

There are two types of reject devices. one is rotary actuator, and the other one is cylinder. This is mounted on the outfeed side of the detector aperture. The reject mechanism is a diverter type and can be reversed by the following procedure:

For Cylinder type reject device

a) Remove reject shroud by pulling the spring-loaded pin and sliding the cover away from the reject housing. Relocate on the opposite leg of the reject housing ensuring the pin is relocated into the hole.

b) Locate the spring on the underside of the reject diverter and remove from the armature and replace on the opposite side.

For Rotary type reject device

a) Disconnect the air supply, and flip the connection of both the air outlet tube going to the rotary actuator.

The reject device is used to divert the product flow away from the normal flow of good product in the event of metal contamination in the product.

The reject device is configured to failsafe. A failsafe reject device will always switch to reject if a problem occurs on the detector i.e. if a power or air pressure failure occurs. The reject will remain in the reject mode until the detector reverts back to normal operation.

Product Chute

This is fitted through the detector aperture. The product chute is fitted to enable transfer of product from the process through the detector and reject device to the collection facility.

Fitting the chute is very simple. Just pass the chute through the infeed side of the detector aperture, there are no fixings required for the chute.

Detector Head Tilt Angle

The metal detector-working angle can be altered to suit process requirements from 30 to 60 degrees in 5-degree increments.

Adjusting the angle of operation is as follows:

Locate the two spring loaded pins beneath the search head mounting plate. Support the detector head with one hand and with the other pull the pins towards each other. This will release the search head. Select the desired angle and release the pins so that they locate in the pre drilled holes.

Note: Due to the possibility that the tablet velocity will change, the system must be tested for accurate reject response if the tilt angle is altered.

Detector Head Height Adjust

The working height of the metal detector can be adjusted to suit process requirements.

The Phantom Pharmaceutical detector is equipped with a power lift system. To raise / lower the system height, simply press the arrow up and arrow down keys on the control panel. This function happens only at the top menu main display.
