

Electromagnetic Feeder Troughs

Syntron® Electromagnetic Feeder models FH-22 through F-88 can be furnished with standard flat-bottom troughs, special flat-bottom troughs or belt-centering discharge troughs.

Drive units can be positioned either above or below the trough. A below-deck drive unit is most commonly used, but above-deck drive units can be supplied for installations where there is insufficient space below the trough. However, an above-deck drive unit may reduce feeder capacity slightly.

Several trough options are available for special applications. Syntron® extra-long feeder troughs can be supplied with either below-deck or above-deck multiple electromagnetic drive units. Extra-long feeder troughs provide many advantages in conveying materials over long distances; unlike belt conveyors, there are no idlers or pulley drive units to wear, lubricate, or replace. Long tubular troughs can convey pure, clean materials without atmospheric contamination and safely convey dusty, poisonous materials without endangering processing personnel.

Other trough options include:

- Syntron® vibrating inspection tables feed material forward at a smooth, controlled rate of flow. This enables an operator to remove material that does not meet specification.
- Syntron® “spreader” feeders spread a wide, even layer of material with a diagonal discharge trough or diagonal-slotted trough.



Standard flat-bottom trough, below-deck drive unit.



Tubular trough, below-deck drive unit.



Flat bottom trough, above-deck drive unit.

Other Trough Options Include:

- Covered Trough with Dust Seals
- Open Trough with Dust Seals
- Screening Feeders
- Diagonal Discharge Trough
- Belt-Centering Discharge Trough

Trough Liner Options Include:

- T-1A
- AR-400
- AR-500
- Stainless Steel
- UHMW Plastic
- Rubber
- Ceramic
- Carbide Overlay