

TF3 HD – Random Access

Easily integrates with your machine to add tray automation.
Handles large format trays, custom trays, and Thermoform trays.

- ✓ Int. DM/239750 and DM/240991 Wipo
- ✓ EMC/EMV TuV Rheinland

LARGE FORMAT TRAY FEEDER

The **TF3-HD** is our largest tray feeder. It is designed to automatically feed custom-sized trays, thermoform trays, and multiple tray types in a single production run. Trays are loaded onto carrier plates into a cassette. This keeps the trays flat and supported during production. It loads and unloads tray sizes that fit on the 410 × 310 mm sheet to and from your machine. Multiple smaller trays can fit on one sheet, which increases production between tray exchanges and operator reloading time. Reloading can be done while your machine is running, so production is not interrupted.

- ✎ Random Access Cassette load tray feeder
- ✎ Handles thermoform trays in steel sheets
- ✎ Handles numerous trays ≤ 410 × 310 mm
- ✎ Very compact form factor
- ✎ Pay load 60 kg for increase autonomy
- ✎ Operator friendly loading/unloading
- ✎ Easy to integrate, standalone device
- ✎ Loads two JEDEC trays at a time with a 40-tray capacity
- ✎ Optional Barcode reader (trays)



CONFIGURATION (HW/SW)

- ✎ **Conveyor Standard Length** 550mm, 700 mm
- ✎ **Custom Conveyor** available
- ✎ **“Open End” Conveyor** available
- ✎ **Door** swing left or right (standard swing left)
- ✎ **Communication Signals** serial UDP/IP, TCP/IP, RS232, RS485, SMEMA and dIO (limited)
- ✎ **Protocol** Basic or Extended
- ✎ **Swiss Made**

Integrates into your

Work cell
Singulation Equipment
Device Programmers
Test Handlers
Die Bonders
Inspection Equipment

TF3-HD

Tray Feeder

TECHNICAL SPECIFICATION

Magazine Capacity

20 Tray Slots, Pitchn= 22.5 mm

10 Tray Slots, Pitchn= 45 mm

Custom cassettes available

Load

Max stack weight of 90kg (198lbs)

Max tray/carrier weight of 4kg (8.8lbs)

Allowable Loading Height

450mm (17.7") Magazine

Tray Cycle Time

Ca. 7 – 12 seconds typical, application dependent

Position Accuracy

± 50 µm (carrier plate)

Flexibility

Microprocessor controlled, adjustable conveyor speed, tray changeover

Electrical

24 VDC ± 10 %, ~7 A

Compressed Air

6 Bar (87 psi)

Feeder Weight

22.7 kg (50 lbs.)

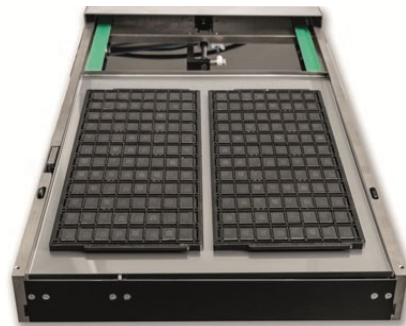
Environment

10 – 35°C / 10 – 90 % R.H.

Standards Compliance

SEMI S2 & S8, NFPA 70 & 79, CE

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SCOPE OF DELIVERY

- 1× TF3 Feeder
- 1× Cassette 20 Slots
- 20× carrier plate optional

FUTURE OPTION

- Cassette loading using slides
- AGV compatible

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