

# TF3 HD – Random Access

Easily integrates with your machine to add tray automation  
Handles Large Format Trays, Custom Trays, and Thermoform  
Trays within 300 × 400 mm dimension

## LARGE FORMAT CASSETTE LOAD TRAY FEEDER

The **TF3 HD** is our largest tray feeder. It is designed to automate 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 400 × 300 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 steets
- ✦ Handles a huge number of trays smaller than 400 × 300 mm
- ✦ Very compact form factor
- ✦ Pay load 45 kg for increase autonomy
- ✦ Operator friendly loading/unloading
- ✦ Easy to integrate
- ✦ Loads two JEDEC trays at a time with 40 tray capacity

## CONFIGURATION (HW/SW)

- ✦ **Conveyor Standard Length** 700 mm
- ✦ **Conveyor Custom** available, TBD
- ✦ **Open Conveyor** available, TBD
- ✦ **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, consult comm. protocol



## EASILY INTEGRATE WITH YOUR MACHINE:

SMT Assembly Equipment  
Singulation Equipment  
Device Programmers  
Test Handlers  
Die Bonders  
Inspection Equipment  
Custom Automation

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## TECHNICAL SPECIFICATION

### Load in Z

450 mm

### Adapter / Carrier Plate

408 × 310 mm, pay area 400 × 300 mm  
Custom adapter plate available

### Cassette Standard

20 Slots, Pitch 22.5 mm standard  
Custom cassette available

### Cassette Custom

Custom Cassette available  
e.g. 10 slot cassette @ pitch 45 mm

### Load

4 kg max. per carrier plate

### Speed

Ca. 7–12 seconds typical, strongly application dependent

### Position Accuracy

±50 µm (sheet)

### Flexibility

adjustable Conveyor speeds, replenish Trays

### Electric

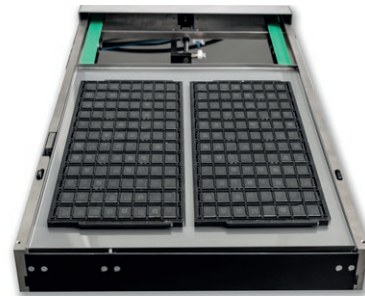
24 VDC / ~7amps

### Pneumatic

6 Bar Air Pressure

### Weight

ca. 90 kg excl. Cassette



## SCOPE OF DELIVERY

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

## FUTURE OPTION

- ◆ Cassette loading using slides
- ◆ Feeder accepts a Cassette from an AGV

### QUASYS AG

Rothusstrasse 5a  
CH-6331 Hünenberg  
Switzerland  
sales@quasys.ch

### ASIA

Auleetech Singapore  
Oliver Ackermann  
+65 6247 5157  
oliver.ackermann@  
auleetech.com

### USA EAST

trayfeeders.com  
Concord NH  
Neil Burt  
+1 603 270 9180  
info@trayfeeders.com

### USA WEST

Bentleadtools  
San Jose CA  
Bob Santora  
+1 (408) 592 5259  
bob@bentleadtools.com