Layout of Tray Feeder by Machine

SM481 PLUS / SM482 PLUS
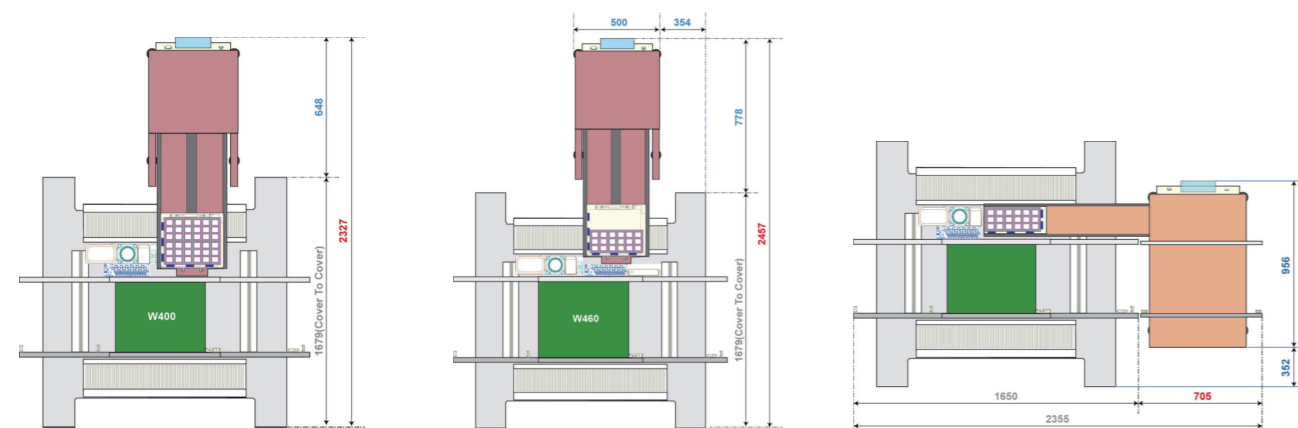

STF 100D	STF 100N	STF 100S
■ Base on PCB Width : 400mm	■ Base on PCB Width : 510mm	■ Base on PCB Width : 400mm

DECAN F2 / DECAN L2

STF 100D	STF 100N	STF 100S
■ Base on PCB Width : 400mm	■ Base on PCB Width : 460mm	■ Base on PCB Width : 370mm

SM485
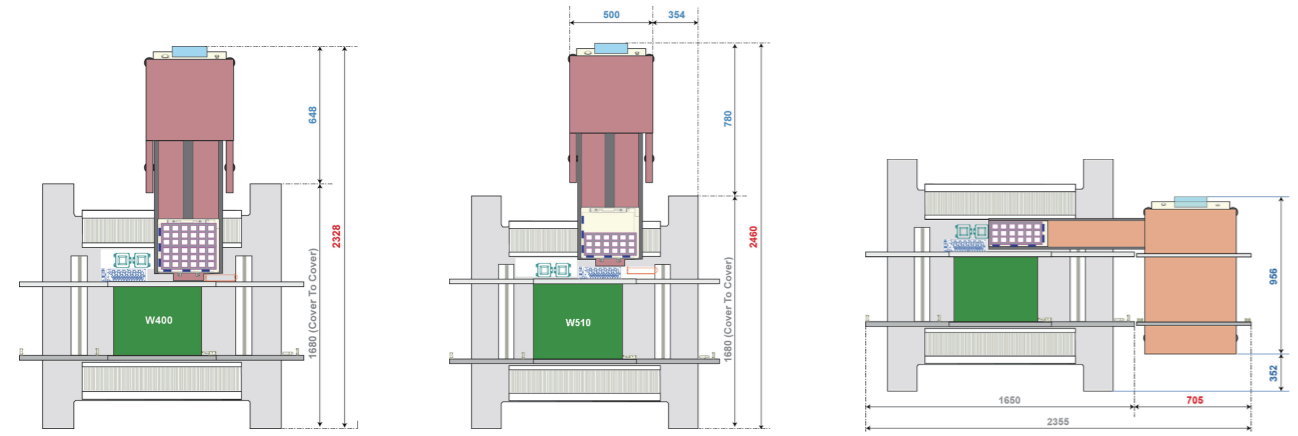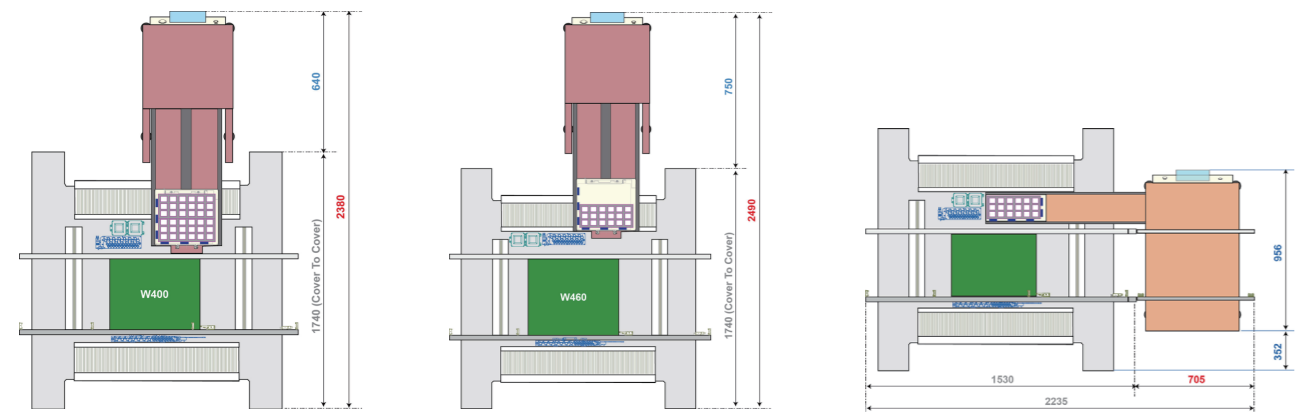
STF 100D	STF 100N	STF 100S
■ Base on PCB Width : 400mm	■ Base on PCB Width : 460mm	■ Base on PCB Width : 400mm

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STF 100 Series

Specifications
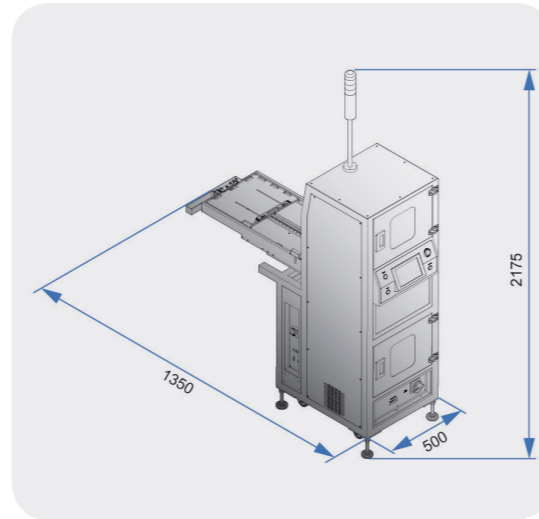
STF 100D

Item	Specifications	Remarks
Outline Dimension (mm)	W500 x L1350 x H 2175 (Top of the signal light)	
Weight	Max. 240kgf	
Tack Time	3.0 sec	
	5.0 sec	Component size less than 10.0*10.0
Repeatability	± 0.2mm (Based on 3σ)	
Available Tray Size (mm)	Max. 340 x 272 // min. 200 x 100	JEDEC: 322.6 x 135.9
Magazine	2 Tray: Pallet // 12 Pallet: Magazine 2 Magazine: Tray Feeder	
Volt	Single phase AC 220V±10%, AC 100V / 110V / 120V / 200V / 220V / 240V	
Power	1000VA(Max), 300VA(RMS)	
Max. Height of componnent supplied	9.5mm, 25.4mm (Option) : Load the trays on every other stage	
Noise	75 db	
UI	Monitor: 7" TFT LCD // Operation: Touch Pad OS: Windows CE Embedded // MMI Language: English	
Safety	CE	

STF 100N

Item	Specifications	Remarks
Outline Dimension (mm)	W500 x L1288 x H 1945 (Top of the signal light)	
Weight	Max. 250kgf	
Tack Time	3.0 sec	
	5.0 sec	Component size less than 10.0*10.0
Repeatability	± 0.2mm (Based on 3σ)	
Available Tray Size (mm)	Max. 340 x 272 // min. 200 x 100	JEDEC: 322.6 x 135.9
Magazine	2 Tray: Pallet // 20 Pallet: Magazine 1 Magazine: Tray Feeder	
Volt	Single phase AC 220V±10%, AC 100V / 110V / 120V / 200V / 220V / 240V	
Power	1000VA(Max), 300VA(RMS)	
Max. Height of componnent supplied	9.5mm, 25.4mm (Option) : Load the trays on every other stage	
Noise	75 db	
UI	Monitor: 7" TFT LCD // Operation: Touch Pad OS: Windows CE Embedded // MMI Language: English	
Safety	CE	

STF 100S

Item	Specifications	Remarks
Outline Dimension (mm)	W 1612 x L930 x H 1945 (Top of the signal light)	
Weight	Max. 250kgf	
Tack Time	3.0 sec	
	5.0 sec	Component size less than 10.0*10.0
Repeatability	± 0.2mm (Based on 3σ)	
Available Tray Size (mm)	Standard: 322.6 x 135.9 // min: 200 x 100	JEDEC: 322.6 x 135.9
Magazine	1 Tray: Pallet // 20 Pallet: Magazine 1 Magazine: Tray Feeder	
Volt	Single phase AC 220V±10%, AC 100V / 110V / 120V / 200V / 220V / 240V	
Power	1000VA(Max), 300VA(RMS)	
Max. Height of componnent supplied	9.5mm, 25.4mm (Option) : Load the trays on every other stage	
Noise	75 db	
UI	Monitor: 7" TFT LCD // Operation: Touch Pad OS: Windows CE Embedded // MMI Language: English	
Safety	CE	

TRAY FEEDING SYSTEM

STF 100 Series

The Auto Tray Feeder of Hanwha Precision Machinery Co., Ltd., is a product that is made to supply tray components to a chip mounter, which is divided into three models, STF-100D, STF-100N and STF-100S, according to its function and purpose of use. It is designed based on productivity, safety and reliability.

STF 100D

- Optimized Production with a Single Type of Tray
  - Material change: Unused magazine (Slave)
  - Allows material change by using the upper and lower magazines independently.
- Accommodates maximum two JEDEC standard trays per pallet

STF 100N

- Optimized small quantity batch production
  - Material change: Upper Change Rack
  - Allows nonstop material change for each pallet at the upper Change Rack. Accommodates maximum two JEDEC
- standard trays per pallet

STF 100S

- Maximized utilization of feeder slot
  - Increases the utilization of the rear feeder base by supplying trays from the right side of the machine.
- Work Table function included
  - Allows interface with the machine by transferring a PCB to the next machine.
- Accommodates maximum one JEDEC standard tray per pallet

TRAY FEEDING SYSTEM
STF 100 Series

Main Feature

01

Minimized Pallet Change

The STF-100D and STF-100N models allow the use of maximum 40 trays (20 pallets) and 48 trays (24 pallets) based on the JEDEC standard tray, respectively. The STF-100S model supplies trays from a side of a chip mounter and can use a maximum of 20 trays (20 pallets) based on the JEDEC standard tray. In addition, they are widely applicable to component sizes from the JEDEC standard size to maximum 25.4mm in height.

12 pallets

12 pallets

20 pallets

20 pallets

| STF 100D | STF 100N | STF 100S |

02

Easy Job Change

The Auto Tray Feeder applies the rack type component supply method to allow easy job change. The STF-100D model allows materials to be refilled from an unused magazine during Auto Run by operating the upper and lower magazines independently. The STF-100N and STF-100S models are designed to allow pallet change without stopping a chip mounter with one pallet of the component exhausted pallet being moved to the upper Change Rack.

View of a pallet which has moved up to the upper change rack from the STF-100N model after all the materials in it were exhausted.
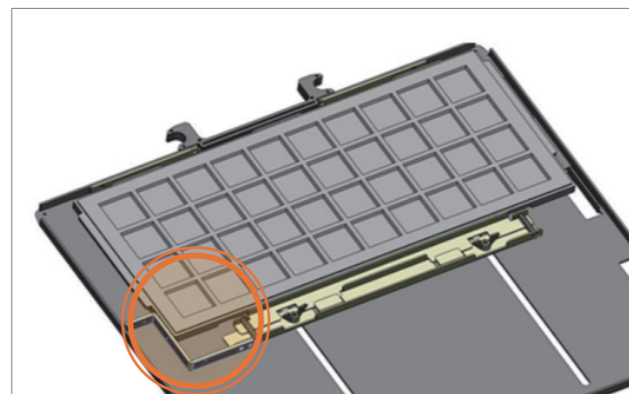
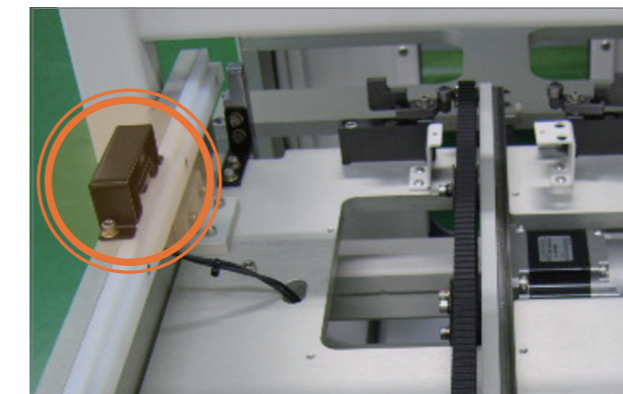View of the upper magazine of the STF-100D model which is open to refill materials

03

User Safety and Convenience

Fool proof safely secures tray components while ensuring correct polarity of the tray. Component coplanarity sensor verifies components are properly positioned in their pockets.
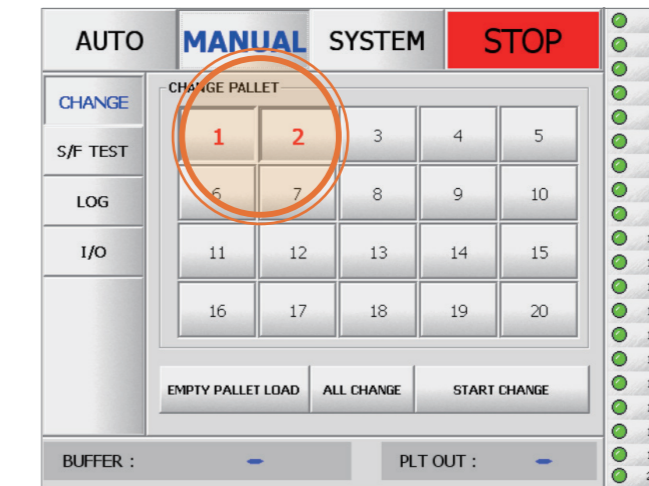
Fool Proof

Component coplanarity sensor

04

Provides real-time Interface with Machine

Allows component change without stopping the machine by receiving information on the component through RS-232C communication with a chip mounter and generating a timely alarm against material shortage.
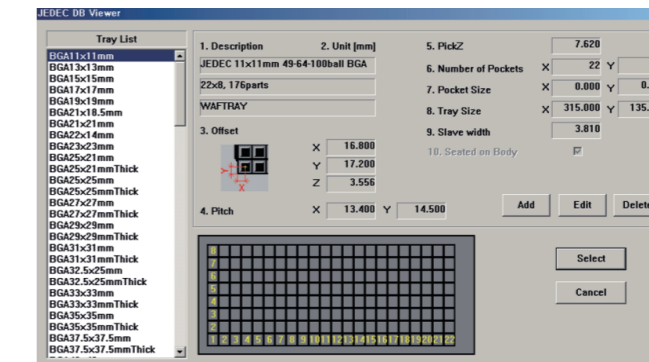
Informs the user in a timely manner of a pallet which needs to be refilled when materials are exhausted by communicating with the chip mounter.
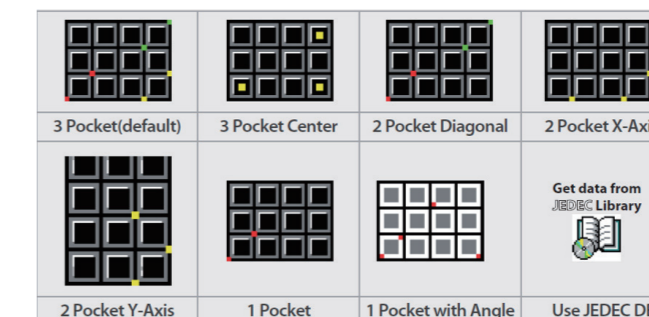
05

Provides JEDEC DataBase and Various Teaching Methods

JEDEC library is provided for easy teaching of JEDEC trays along with other teaching methods.

Get data from JEDEC Library

| 3 Pocket(default) | 3 Pocket Center | 2 Pocket Diagonal | 2 Pocket X-Axis |
| 2 Pocket Y-Axis | 1 Pocket | 1 Pocket with Angle | Use JEDEC DB |

Provides various teaching methods for tray components