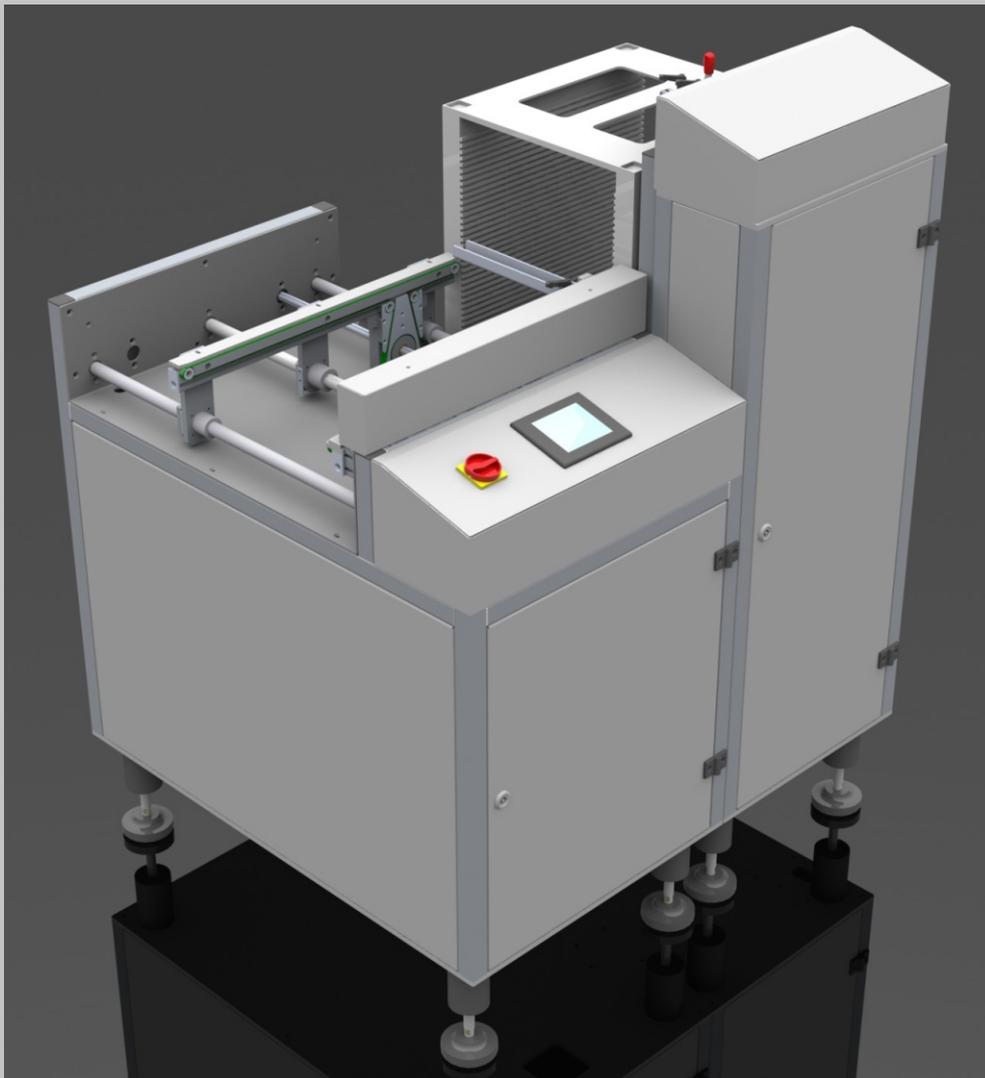


Technical Data

Loader Unloader



BOARDHANDLING

TEC-LM-1M



The LM-1M loading station passes PCBs from the magazine to an upstream production system in the production line.

In addition to the magazine receptacle for "Tecona" standard magazines, it is optionally possible to set the machine up for customer magazines.

Solid construction, optimal accessibility and high safety are ensured by modular design.

Comfortable operation and parameter input via touch display. Service mode with individual control of actuators.



Features

- Solidly built aluminium profile frame
- Transport direction from left to right (from operator side)
- The operator side is the fixed side of the magazine
- ESD equipment for use in ESD area
- SMEMA interface
- Capacity for 1 magazine
- Machine size M-size max. magazine side LxW 400x320 mm (L-size optionally available)
- Magazine receptacle for CAB 701/702/703
- Unloading position for magazine is freely programmable
- Standard color RAL 7035/ RAL 7016 (conveyor and legs)
- Control panel with colored touch display
- Own PLC control
- Alarm horn for acoustic warning or error message
- Two-color status beacon green/red for optical status message
- Manual mode function
- Adjustable advance warning for magazine change
- Rod pusher for pushing the PCB into the line (length: M-size 420 mm; L-size 550 mm)

Options

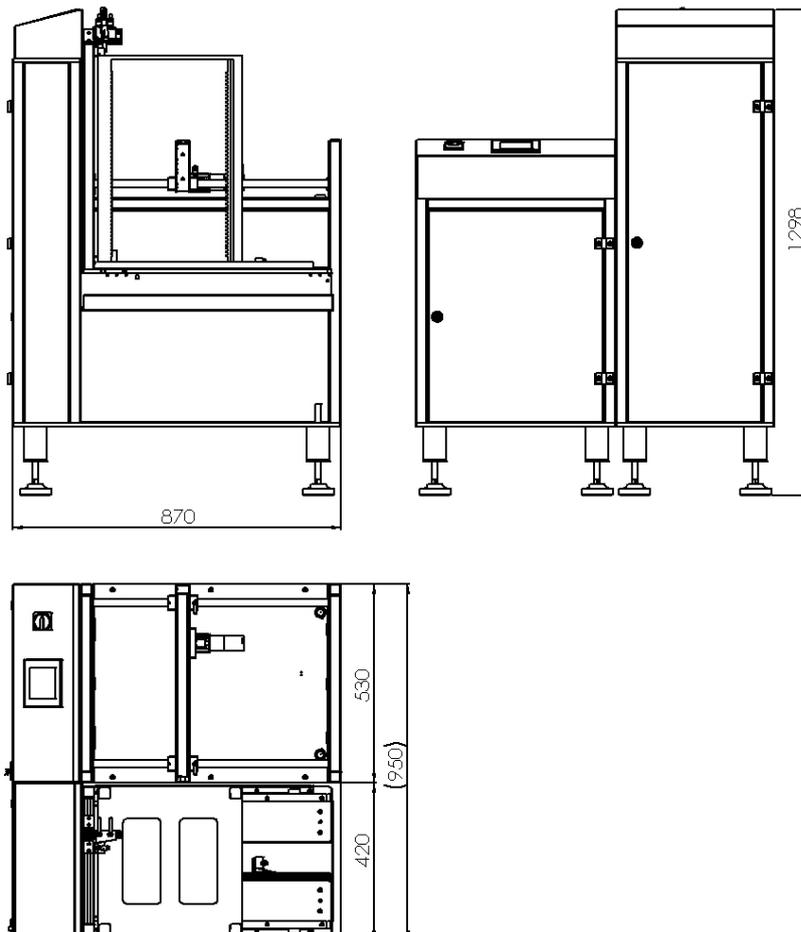
- Adaption of magazine receptacle for third-party magazine
- Extension of machine to L-size (max. magazine size LxW 535x530 mm)
- Special color according to RAL color table, powder coated
- Conversion to right-/left-hand operation
- Interface according to Siemens definition (SMEMA not required)
- Interface via sensor
- Automatic push-in repetition when magazine slot is empty (empty slot monitoring)
- Three-color status beacon green, amber, red, for optical status message
- Additional alarm horn (loud)
- Service kit comprising the main wearing and replacement parts

TEC-LM-1M



Technical Data

Magazine size (L x W x H) (selected option)	max. 535 mm x 530 mm x 570 mm
Magazine weight	max. 30 kg
PCB size (L x W) (selected option)	min. 80 x 50 mm max. 460 x 460 mm
PCB weight	max. 3.5 kg
Transport height	830 +/- 15 mm to 1000 +/- 15 mm adjustable according to customer specification
Electrical connections	230 VAC/ 50 Hz
Consumption characteristics, standby operation	0.05 KW
Consumption characteristics, standard operation	0.2 KW
Fuses	onsite, max. 10 A machine side, T2A
Type of wiring	1 Ph + N + PE
Noise emission	< 65 db
Interface	SMEMA
Weight	170 kg



TEC-LM-5M



The TEC-LM-5M loading station passes PCBs from magazines to an upstream production system.

The machine consists of a magazine loading and unloading conveyor, a lifting axis unit and a pusher which pushes the PCBs into the line.

Two full magazines can be manually placed on the lower magazine conveyor and the unloaded magazines are taken from the upper magazine conveyor.

The magazines are changed automatically. This enables a quasi-continuous operation. Comfortable operation and parameter input via touch display. Service operation with individual activation of actuators.

The complete encasement provides a very high degree of machine safety.



Features

- Solidly built aluminum profile frame
- Lifting axis unit for vertical cycling of magazine
- Magazine buffer for extending the magazine capacity
- Transport direction from left to right (from operator side)
- Transport width adjustment with clamping lever
- The operator side is the fixed side of the magazine
- Pusher to transport the PCB out of the magazine
- ESD equipment for use in ESD area
- SMEMA interface
- Capacity for 2 full magazines, 2 empty magazines, 1 magazine being processed
- Machine size M-size max. magazine side LxW 400x320 mm (L-size optionally available)
- Magazine receptacle for CAB 701/702/703
- Magazine change cycle time < 40 s
- Unloading position for magazine is freely programmable
- Standard color RAL 7035/ RAL 7016 (conveyor and legs)
- Control panel with colored touch display
- Own PLC control
- Alarm beeper for acoustic warning or error message
- Two-color status beacon: Green/red for optical status message
- Manual mode function

Options

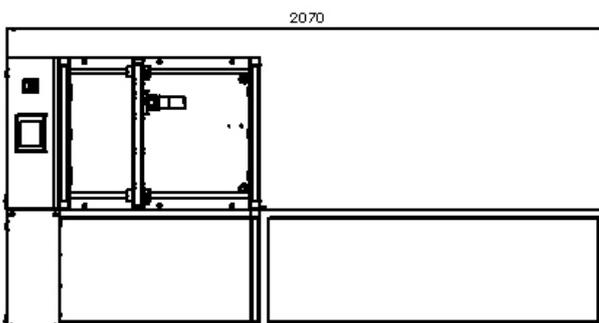
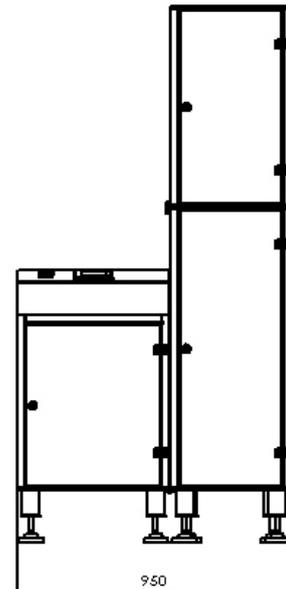
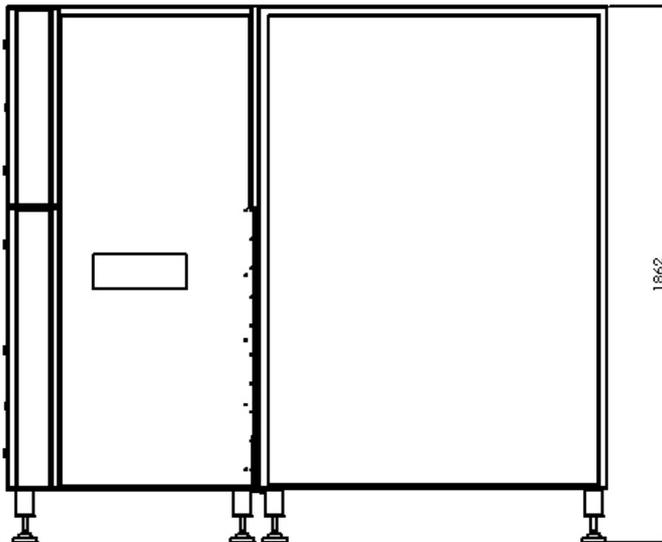
- Adaption of magazine receptacle for third-party magazine
- Extension of machine to L-size (max. magazine size L x W 535x530 mm)
- Special color according to RAL color table, powder coated
- Additional magazine buffer twice full, twice empty
- Conversion to right-/left-hand operation
- Interface according to Siemens definition (SMEMA not required)
- Interface via sensor
- Three-color status beacon green, amber, red, for optical status message
- Additional alarm horn (loud)
- Service kit comprising the main wearing and replacement parts

TEC-LM-5M



Technical Data

Magazine size (L x W x H)	max. 535 mm x 530 mm x 570 mm
Magazine weight	max. 30 kg
PCB size (L x W)	min. 80 x 50 mm, max. 460 x 460 mm
PCB weight	max. 3.5 kg
Component height	+/- 40 mm
Transport height	830 +/- 15 mm to 1000 +/- 15 mm adjustable in advance according to customer specification
Electrical connections	230 VAC/ 50 Hz
Consumption characteristics, standby operation	0.05 KW
Consumption characteristics, standard operation	0.3 KW
Fuses	onsite max. 10 A, machine side T2A
Type of wiring	1 Ph + N + PE
Noise emission	< 65 db
Interface	SMEMA
Weight	350 kg



TEC-UM-1M



The TEC-UM-1M unloading station transfers PCBs from the upstream equipment in the line/process machine to an integrated transfer conveyor. The conveyor has a motor-driven pusher which transports the PCB into the magazine.

The machine has a capacity of one magazine with manual magazine change. To make the magazine change easier, the user can configure the changing height for the magazine. A controlled lift axis performs vertical cycling of the magazine.

Comfortable operation and parameter input via touch display. Service mode with individual control of actuators.



Features

- Solidly built aluminum profile frame
- Transport direction from left to right (from operator side)
- Transport width adjustment with clamping lever
- The operator side is the fixed side of the magazine
- Pusher to transport the PCB into the magazine
- ESD equipment for use in ESD area
- SMEMA interface
- Capacity for 1 magazine
- Machine size M-size max. magazine side LxW 400x320 mm (L-size optionally available)
- Magazine receptacle for CAB 701/702/703
- Unloading position for magazine is freely programmable
- Standard color RAL 7035/ RAL 7016 (conveyor and legs)
- Control panel with colored touch display
- Own PLC control
- Alarm beeper for acoustic warning or error message
- Two-color status beacon: Green/red for optical status message
- Manual mode function
- Adjustable advance warning for magazine change

Options

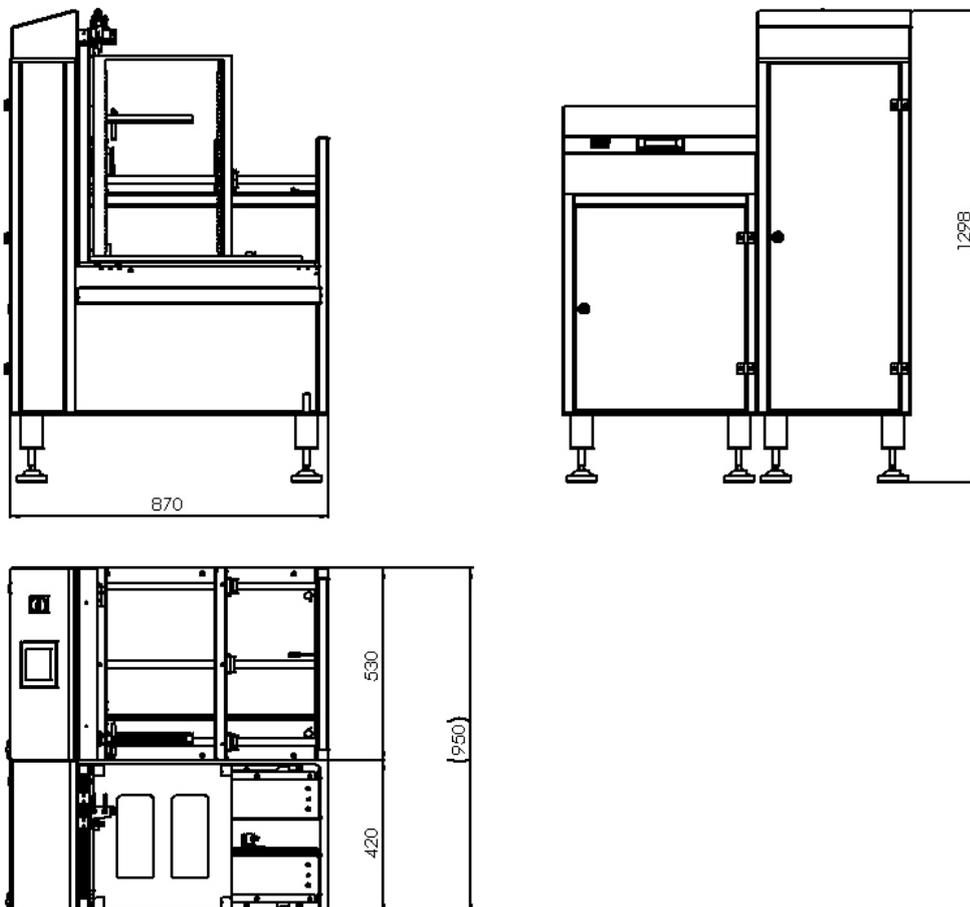
- Adaption of magazine receptacle for third-party magazine
- Extension of machine to L-size (max. magazine size LxW 535x530 mm)
- Electrical transport width adjustment
- Motor-driven width adjustment via product buffer
- Motor-driven width adjustment via Tecona line control
- Eslon hood, screwed
- Eslon hood with hinge and safety switch
- Special color according to RAL color table, powder coated
- Conversion to right-/left-hand operation
- Interface according to Siemens definition (SMEMA not required)
- Interface via sensor
- Automatic push-in repetition when magazine slot is empty (empty slot monitoring)
- Three-color status beacon: Green, amber, red, for optical status message
- Additional alarm horn (loud)
- Service kit comprising the main wearing and replacement parts

TEC-UM-1M



Technical Data

Magazine size (L x W x H)	max. 535 mm x 530 mm x 570 mm
Magazine weight	max. 30 kg
PCB size (L x W)	min. 80 x 50 mm, max. 460 x 460 mm
PCB weight	max. 3.5 kg
Transport length	530 mm
Transport speed	20 m/min
Component height	+/- 40 mm
Transport height	830 +/- 15 mm to 1000 +/- 15 mm adjustable in advance according to customer specification
Electrical connections	230 VAC/ 50 Hz
Consumption characteristics, standby operation	0.05 KW
Consumption characteristics, standard operation	0.20 KW
Fuses	onsite max. 10 A, machine side T2A
Type of wiring	1 Ph + N + PE
Noise emission	< 65 db
Interface	SMEMA
Weight	180 kg



TEC-UM-2M

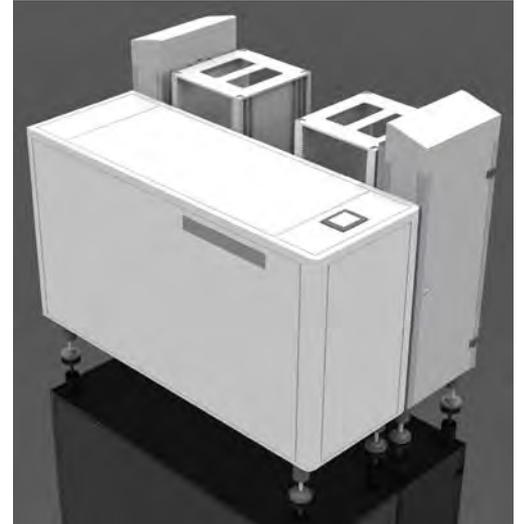


The TEC-UM-2M unloading station unloads PCBs from the upstream equipment in the line/process machine into magazines.

Arriving PCBs are received on an integrated transfer conveyor and distributed via a cross-slide to the magazines. A motor-driven pusher in the conveyor performs pushing into the magazine.

The machine has a capacity of 2 magazines which are vertically cycled independently from each other. The magazine change is performed manually during operation so that continuous unloading is ensured. To make magazine change easier, the user can configure the changing height for the magazine.

Comfortable operation and parameter input via touch display. Service mode with individual control of actuators.



Features

- Solidly built aluminum profile frame
- Transport direction from left to right (from operator side)
- Transport width adjustment by means of clamping levers
- The operator side is the fixed side of the magazine
- Pusher to transport the PCB into the magazine
- 2 independent lifting modules for magazine cycling
- Cross-slide unit with transport conveyor and safety gate on both sides for distribution of the PCBs to the respective magazine
- ESD equipment for use in ESD area
- SMEMA interface
- Capacity for 2 magazines
- Machine size M-size max. magazine side LxW 400x320 mm (L-size optionally available)
- Magazine receptacle for CAB 701/702/703
- Unloading position for magazine is freely programmable
- Standard color RAL 7035/ RAL 7016 (conveyor and legs)
- Control panel with colored touch display
- Own PLC control
- Alarm beeper for acoustic warning or error message
- Two-color status beacon: Green/red for optical status message
- Manual mode function
- Adjustable advance warning for magazine change

Options

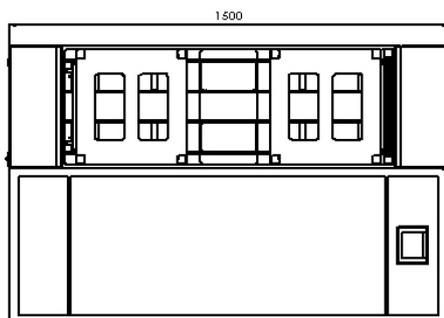
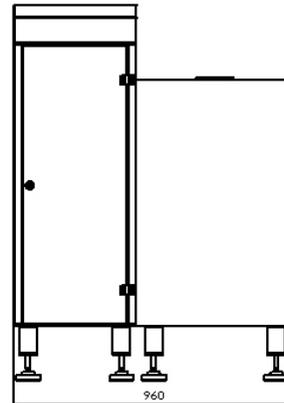
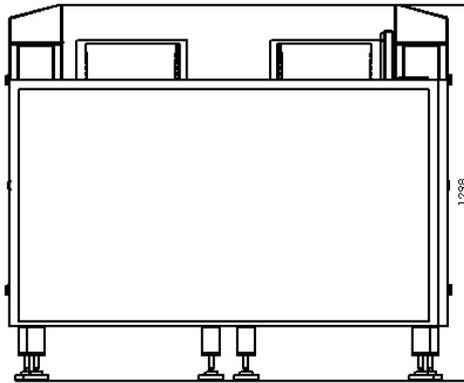
- Complete safety encasing of magazine unit
- Adaption of magazine receptacle for third-party magazine
- Extension of machine to L-size (max. magazine size LxW 535x530 mm)
- Electrical transport width adjustment
- Motor-driven width adjustment via product buffer
- Motor-driven width adjustment via Tecona line control
- Pass/fail sorting (magazine completely full in each case)
- Special color according to RAL color table, powder coated
- Conversion to right-/left-hand operation
- Interface according to Siemens definition (SMEMA not required)
- Interface via sensor
- Interface separation via advance warning limit (e.g., before an oven)
- Three-color status beacon: Green, amber, red, for optical status message
- Additional alarm horn (loud)

TEC-UM-2M



Technical Data

Magazine size (L x W x H)	(selected option) max. 535 mm x 530 mm x 570 mm
Magazine weight	max. 30 kg
PCB size (L x W)	(Selected option) min. 80 x 50 mm max. 460 x 460 mm
PCB weight, max.	3.5 kg
Transport length	530 mm
Transport speed	20 m/min
Component height	+70 mm
Transport height	830 +/- 15 mm to 1000 +/- 15 mm adjustable in advance according to customer specification
Electrical connections	230 VAC/ 50 Hz
Consumption characteristics, standby operation	0.05 KW
Consumption characteristics, standard operation	0.20 KW
Fuses, onsite	max. 10 A
Fuses, machine side	T2A
Type of wiring	1 Ph + N + PE
Noise emission	< 65 db
Interface	SMEMA
Weight	260 kg



TEC-UM-3M



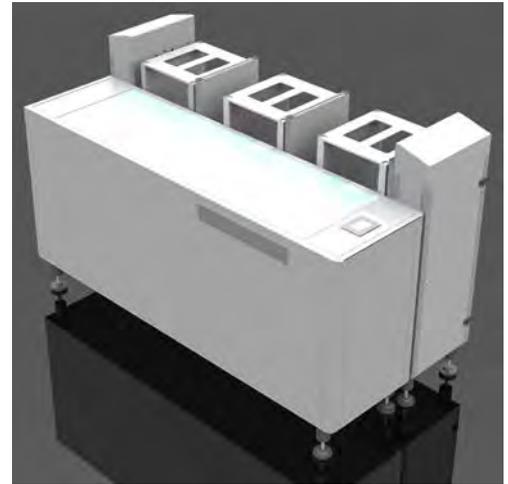
The TEC-UM-3M unloading station unloads PCBs from the upstream equipment in the line/process machine into magazines.

Arriving PCBs are received on an integrated transfer conveyor and distributed via a cross-slide to the magazines. A motor-driven pusher in the conveyor performs pushing into the magazine.

The machine has a capacity of 3 magazines which are arranged next to each other on a platform. The magazine change is performed manually during operation so that continuous unloading is ensured.

The machine is especially suitable for sorting pass/fail PCBs.

Comfortable operation and parameter input via touch display. Service mode with individual control of actuators.



Features

- Solidly built aluminum profile frame
- Transport direction from left to right (from operator side)
- Transport width adjustment by means of clamping levers
- The operator side is the fixed side of the magazine
- 1 lifting platform for receiving the magazines
- Cross-slide unit with transport conveyor and safety gate on both sides for distribution of the PCBs to the respective magazine
- Pusher to transport the PCB into the magazine
- ESD equipment for use in ESD area
- SMEMA interface
- Capacity for 3 magazines
- Machine size M-size max. magazine side LxW 400x320 mm (L-size optionally available)
- Magazine receptacle for CAB 701/702/703
- Unloading position for magazine is freely programmable
- Standard color RAL 7035/ RAL 7016 (conveyor and legs)
- Control panel with colored touch display
- Own PLC control
- Alarm beeper for acoustic warning or error message
- Two-color status beacon: Green/red for optical status message
- Manual mode function
- Adjustable advance warning for magazine change

Options

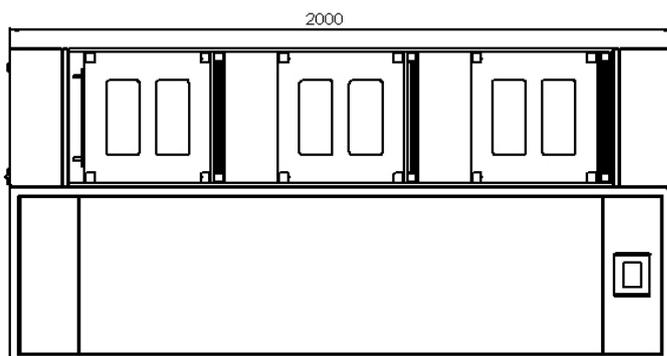
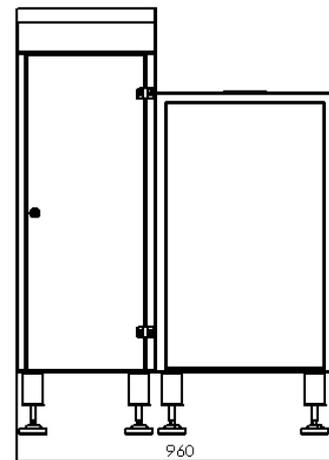
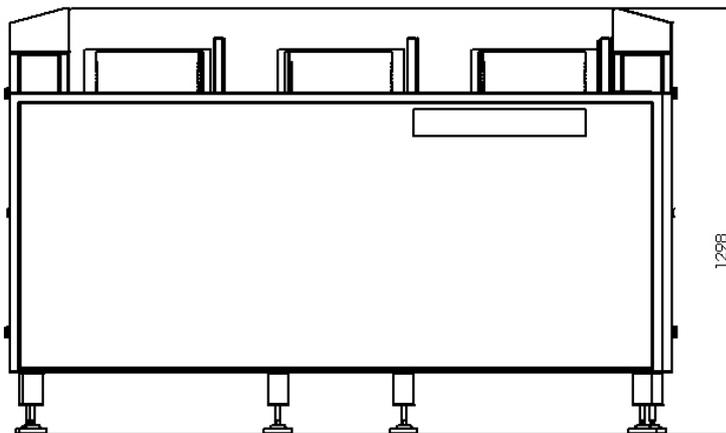
- Complete safety encasing of magazine unit
- Adaption of magazine receptacle for third-party magazine
- Extension of machine to L-size (max. magazine size LxW 535x530 mm)
- Electrical transport width adjustment
- Motor-driven width adjustment via product buffer
- Motor-driven width adjustment via Tecona line control
- Pass/fail sorting (magazine filled completely in each case)
- Special color according to RAL color table, powder coated
- Conversion to right-/left-hand operation
- Interface according to Siemens definition (SMEMA not required)
- Interface via sensor
- Interface separation via advance warning limit (e.g., in front of oven)
- Three-color status beacon: Green, amber, red, for optical status message
- Additional alarm beeper (loud)
- Service kit comprising the main wearing and replacement parts

TEC-UM-3M



Technical Data

Magazine size (L x W x H)	(Selected option) max. 535 mm x 530 mm x 570 mm
Magazine weight	max. 30 kg
PCB size (L x W)	(Selected option) min. 80 x 50 mm, max. 460 x 460 mm
PCB weight	max. 3.5 kg
Transport length	530 mm
Transport speed	20 m/min
Component height	+70 mm
Transport height	830 +/- 15 mm to 1003 +/- 15 mm adjustable in advance according to customer specification
Electrical connections	230 VAC/ 50 Hz
Consumption characteristics, standby operation	0.05 KW
Consumption characteristics, standard operation	0.20 KW
Fuses	onsite max. 10 A, machine side T2A
Type of wiring	1 Ph + N + PE
Noise emission	< 65 db
Interface	SMEMA
Weight	260 kg



TEC-UM-5M



The TEC-UM-5M unloading station unloads PCBs from the production line and fills magazines. The machine consists of a magazine loading and unloading conveyor, a lifting axis unit and a transport conveyor with electric pusher for the PCBs.

Two empty magazines can be manually placed on the upper magazine conveyor and the full magazines are taken from the lower magazine conveyor.

The magazine change in the lifting axis unit is performed automatically. This enables a quasi-continuous operation. Comfortable operation and parameter input via touch display. Service mode with individual control of actuators. The complete encasement provides a very high degree of machine safety.



Features

- Solidly built aluminum profile frame
- Lifting axis unit for vertical cycling of magazine
- Magazine buffer for extending the magazine capacity
- Transport direction from left to right (from operator side)
- Transport width adjustment by means of clamping levers
- The operator side is the fixed side of the magazine
- Pusher to transport the PCB into the magazine
- ESD equipment for use in ESD area
- SMEMA interface
- Capacity for 2 full magazines, 2 empty magazines, 1 magazine being processed
- Machine size M-size max. magazine side LxW 400x320 mm (L-size optionally available)
- Magazine receptacle for CAB 701/702/703
- Magazine change cycle time < 40 s
- Unloading position for magazine is freely programmable
- Standard color RAL 7035/ RAL 7016 (conveyor and legs)
- Control panel with colored touch display
- Own PLC control
- Alarm beeper for acoustic warning or error message
- Two-color status beacon: Green/red for optical status message
- Manual mode function

Options

- Adaption of magazine receptacle for third-party magazine
- Extension of machine to L-size (max. magazine size LxW 535x530 mm)
- Electrical transport width adjustment
- Motor-driven width adjustment via product buffer
- Motor-driven width adjustment via Tecona line control
- Special color according to RAL color table, powder coated
- Additional magazine buffer twice full, twice empty
- Conversion to right-/left-hand operation
- Interface according to Siemens definition (SMEMA not required)
- Interface via sensor
- Three-color status beacon: Green, amber, red, for optical status message
- Additional alarm beeper (loud)
- Service kit comprising the main wearing and replacement parts

TEC-UM-5M



Technical Data

Magazine size (L x W x H) (selectable option)	max. 535 mm x 530 mm x 570 mm
Magazine weight	max. 30 kg
PCB size (L x W) (selectable option)	min. 80 x 50 mm, max. 460 x 460 mm
PCB weight	max. 3.5 kg
Transport length	530 mm
Transport speed	20 m/min
Component height	+/- 40 mm
Transport height	830 +/- 15 mm to 1000 +/- 15 mm adjustable in advance according to customer specification
Electrical connections	230 VAC/ 50 Hz
Consumption characteristics, standby operation	0.05 KW
Consumption characteristics, standard operation	0.3 KW
Fuses	onsite max. 10 A, machine side T2A
Type of wiring	1 Ph + N + PE
Noise emission	< 65 db
Interface	SMEMA
Weight	350 kg

