

Magazine Buffer System MPS 50



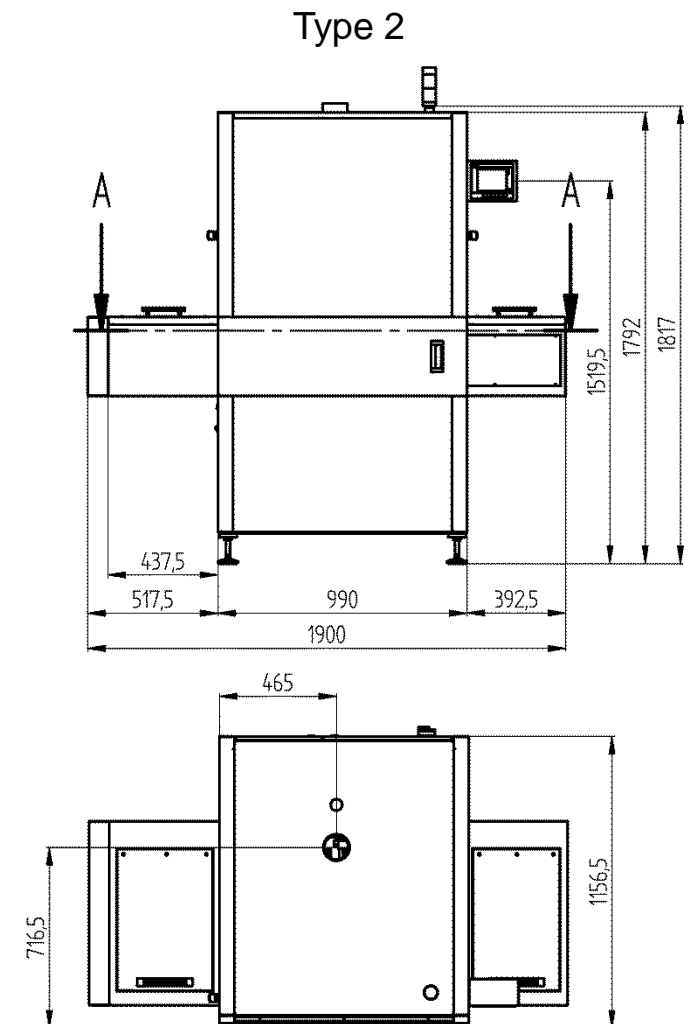
Magazine Buffer System MPS 50

- › Buffering of PCB inside a magazine
 - › Capacity: 1 magazine
 - › Buffer capacity depending to the rack system
- › Setup modes:
 - › LIFO
 - › FIFO
 - › Pass through
 - › Loading
 - › Unloading
 - › Sorting good / bad (option)
 - › Cooling (option)
- › Cycle time 6 - 20 sec. (depending on setup mode)
- › Machine designed to magazine size



Technical Specification

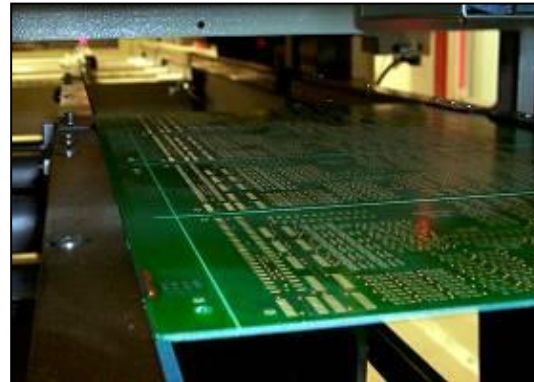
Machine	Type 1	Type 2
Length	1280 mm + Magazine length	1280 mm + Magazine length
Width	1000 mm	1160 mm
Height	1770 mm	1770 mm
PCB width	50 - 260 mm	50 - 460 mm
Magazine width	Max. 320 mm	Max. 535 mm
PCB length	70 - 500 mm	70 - 500 mm
Magazine length	Max. 540 mm	Max. 540 mm
Transport height	850 mm +/- 50 mm (950 mm +/- 50 mm option)	850 mm +/- 50 mm (950 mm +/- 50 mm option)
Magazine pitch	5 - 20 mm	5 - 20 mm
Magazine slots	1 - 50	1 - 50



Detail: Pass through mode



1. PCB takeover onto the inlet conveyor



2. Pass through conveyor underneath the magazine table handover the PCB from the inlet to the outlet conveyors.



4. PCB handover to n+1 machine.



3. PCB will be passed underneath the magazine table.

Pass through conveyor

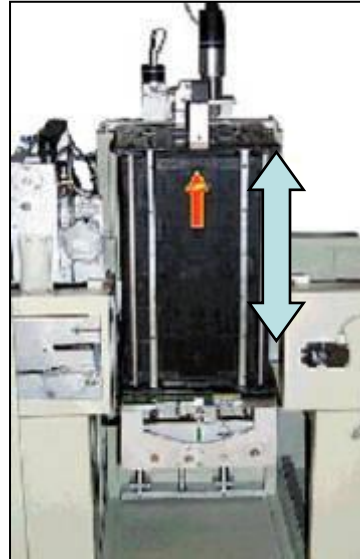
Detail: PCB Buffering



1. After takeover PCB onto inlet conv. the PCB is pushed into the magazine.



4. PCB is pushed out of the magazine and handed over via the outlet conv. to n+1.



2. Magazine movement in vertical axis. Loading/unloading the magazine depending on setup mode (FIFO/LIFO).



3. PCB is pushed out of the magazine.

Operation

- › Operator panel type AOPT350 with graphical color display
- › Changing Parameters and setup new recipes during automatic mode
- › Password protected user level (configurable)
- › Product memory function
- › „Touch“ -Funktion



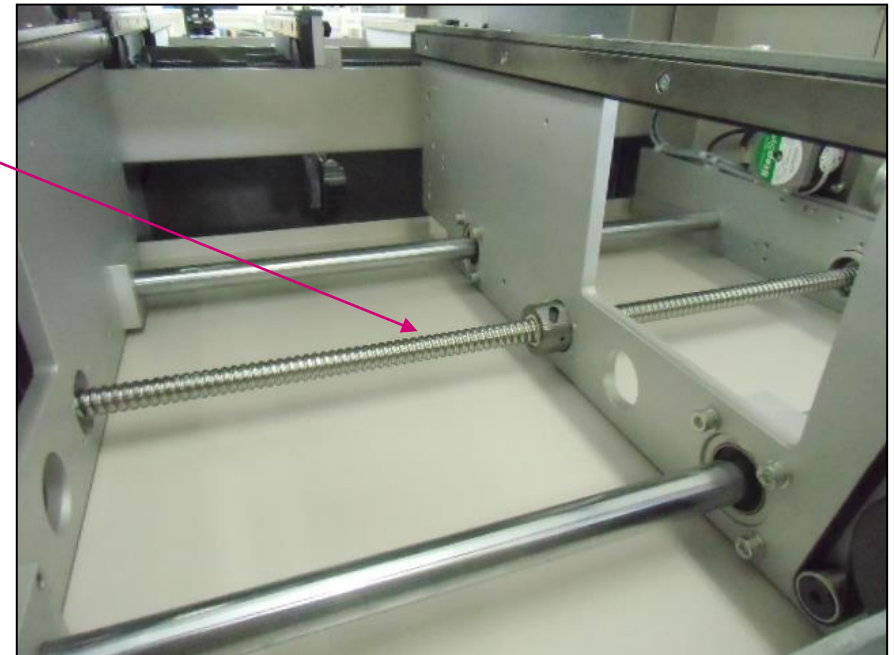
Safety

- › 2 Emergency- stop buttons
- › Hinged cover with contactless safety switch (Interlock)
- › Main switch on back side of machine usable as emergency stop



Width adjustment

- › Width adjustment by spindles electrically driven (Standard feature)
- › Automatic width adjustment by input absolute position at the operator panel (option)



Frame

- › Robust steel frame
- › Completely ESD powder coated
- › RAL- color selectable



Mechanic

- › Mechanical structure made of solid aluminum
- › High quality and durable mechanic parts



Electric

- › Electrical cabinet with flap door with double-bit lock
- › Main switch usable as emergency stop



Cabinet



Pneumatic cabinet

Drive

- › Servo drive for the lift axis controlled via CAN-bus system
- › Soft and fast move protects the material and allows shortest cycle time
- › DC- motor with electronic force limit for both pushers.



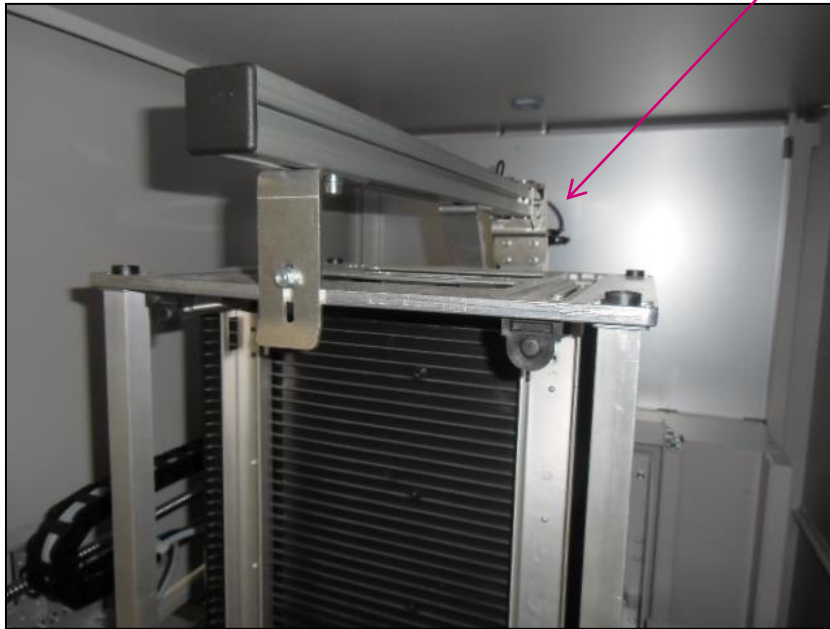
pusher



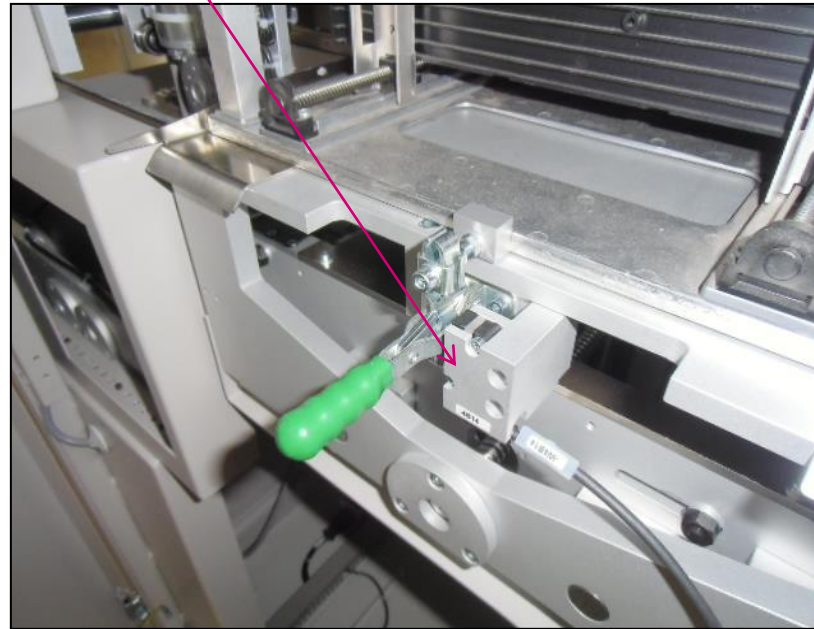
Servomotor lift axis

Detail: Magazine clamping

Sensor detection

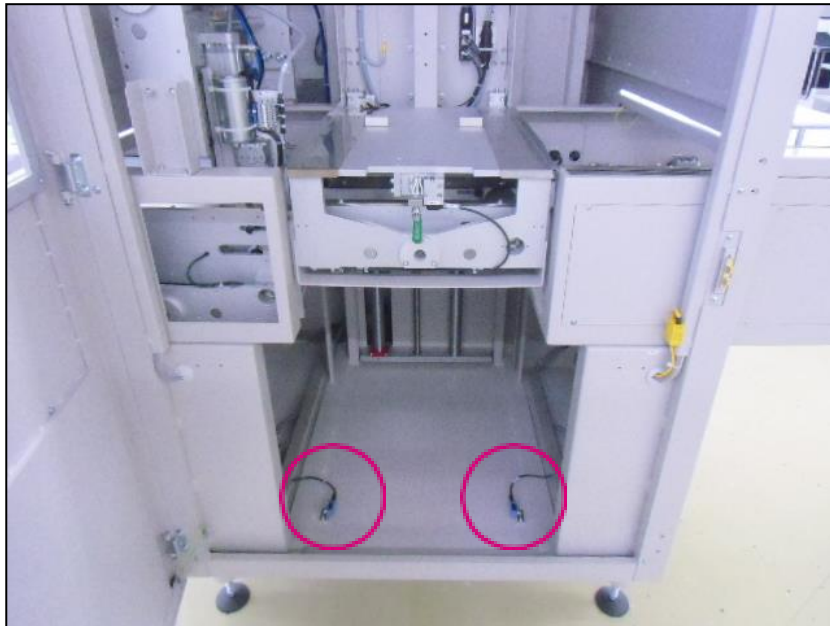


Magazine clamping top

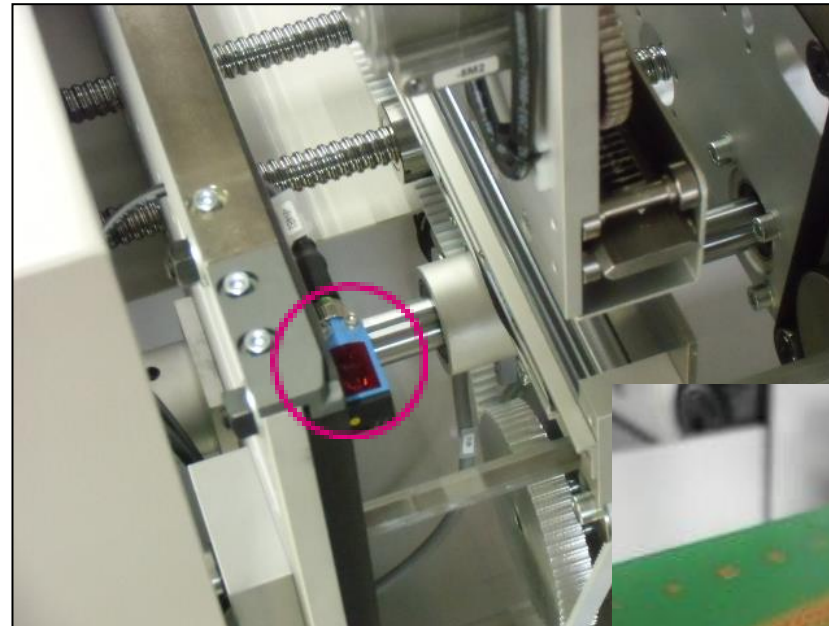


Magazine clamping bottom

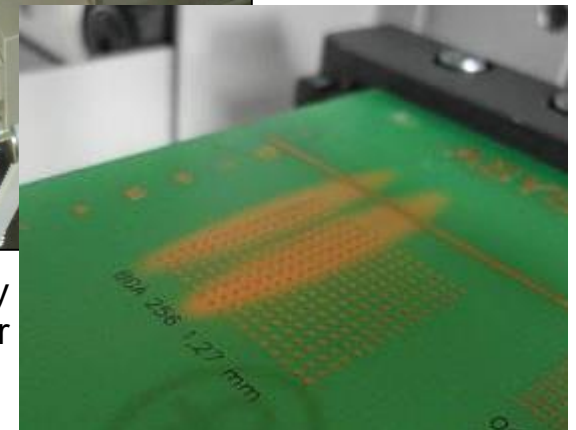
Detail: Sensing



Light barrier for gap detection between magazine and conveyor.

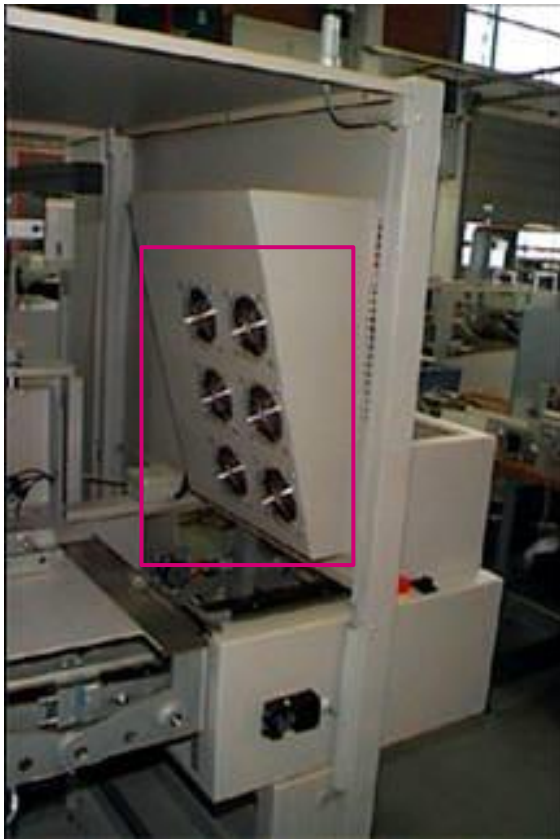


High- quality photoelectric proximity switch with „multiline“ light beam for safe detection of PCB's with holes or cutouts.

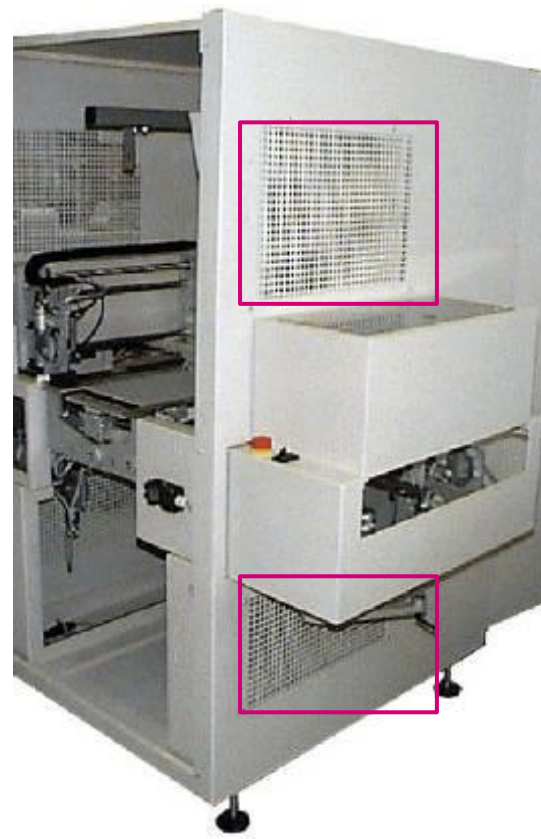


Detail: Cooling function (option)

› Adjustable dwell- time for PCB's inside the magazine (FIFO-Mode)



Fans for PCB cooling



Perforated sheeting on side of the buffer for unhindered air flow.