ASYS GROUP

VEGO Dynamic AES 04 & AMS 04

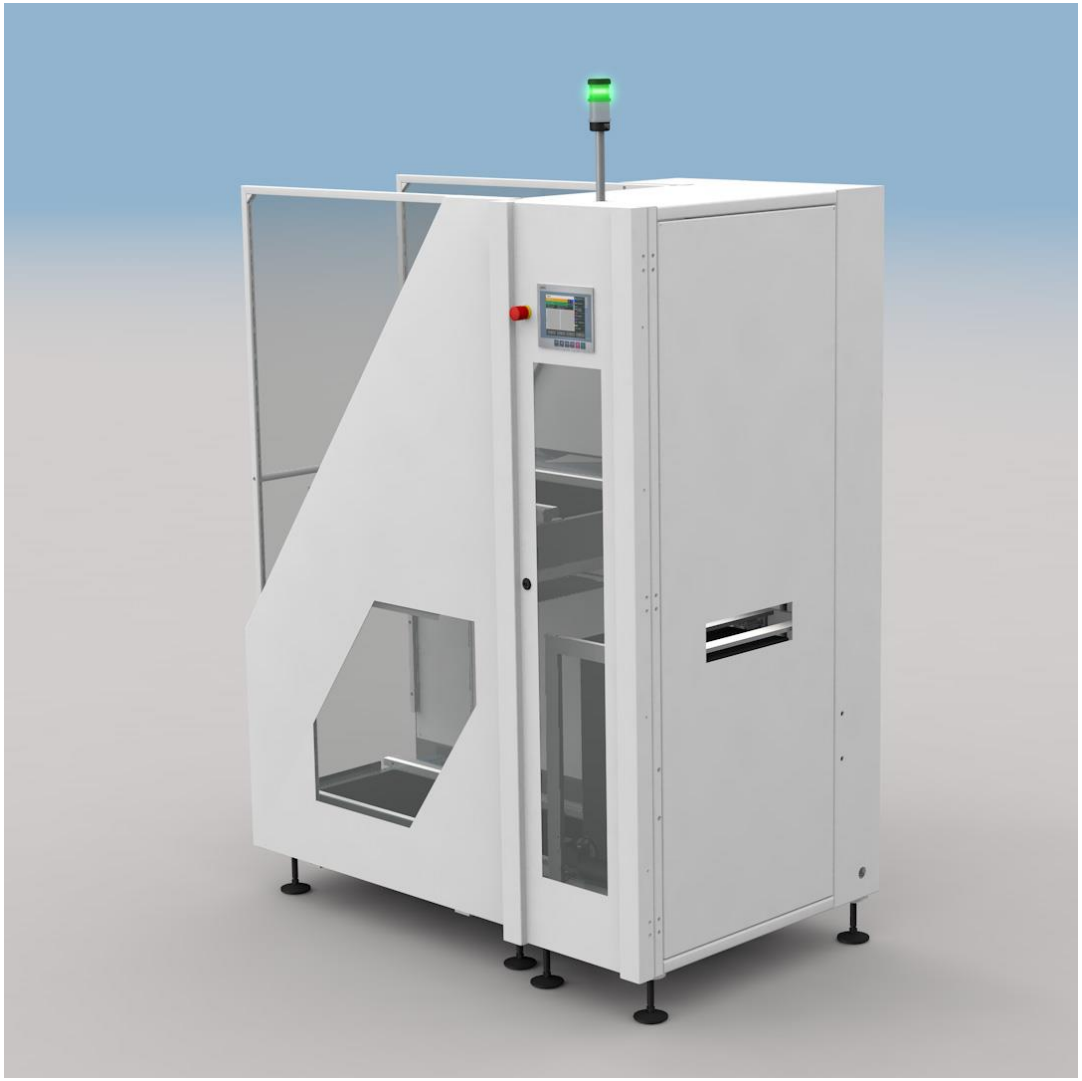


Automation Systems

Multiple Magazine Line- Loader AES 04

Technical specification	Type 1 Straight 	Type 1 90° Backside 	Type 1 90° Frontside 	Type 2 Straight 
Length	1430 mm	1020 mm	1020 mm	2630 mm
Width	860 mm	1820 mm	1820 mm	930 mm
Heigth	1820 mm	1820 mm	1820 mm	1820 mm
PCB- width	50- 260 mm	50- 260 mm	50- 260 mm	50- 460 mm
PCB- length	70- 400 mm	70- 350 mm	70- 350 mm	70- 460 mm
Transport height	850 mm +/- 50 mm (950 mm +/- 50 mm optional available)	850 mm +/- 50 mm (950 mm +/- 50 mm optional available)	850 mm +/- 50 mm (950 mm +/- 50 mm optional available)	850 mm +/- 50 mm (950 mm +/- 50 mm optional available)
Magazine size (max. L x W x H)	400 x 320 x 568 mm	355 x 320 x 568 mm	355 x 320 x 568 mm	535 x 535 x 568 mm
Magazine pitch	5- 20 mm	5- 20 mm	5- 20mm	5- 20 mm
Magazine slots	1- 50 Slots	1- 50 Slots	1- 50 Slots	1- 50 Slots
Magazin buffer input conveyor	2	2	2	3
Magazin buffer output conveyor	2	2	2	3

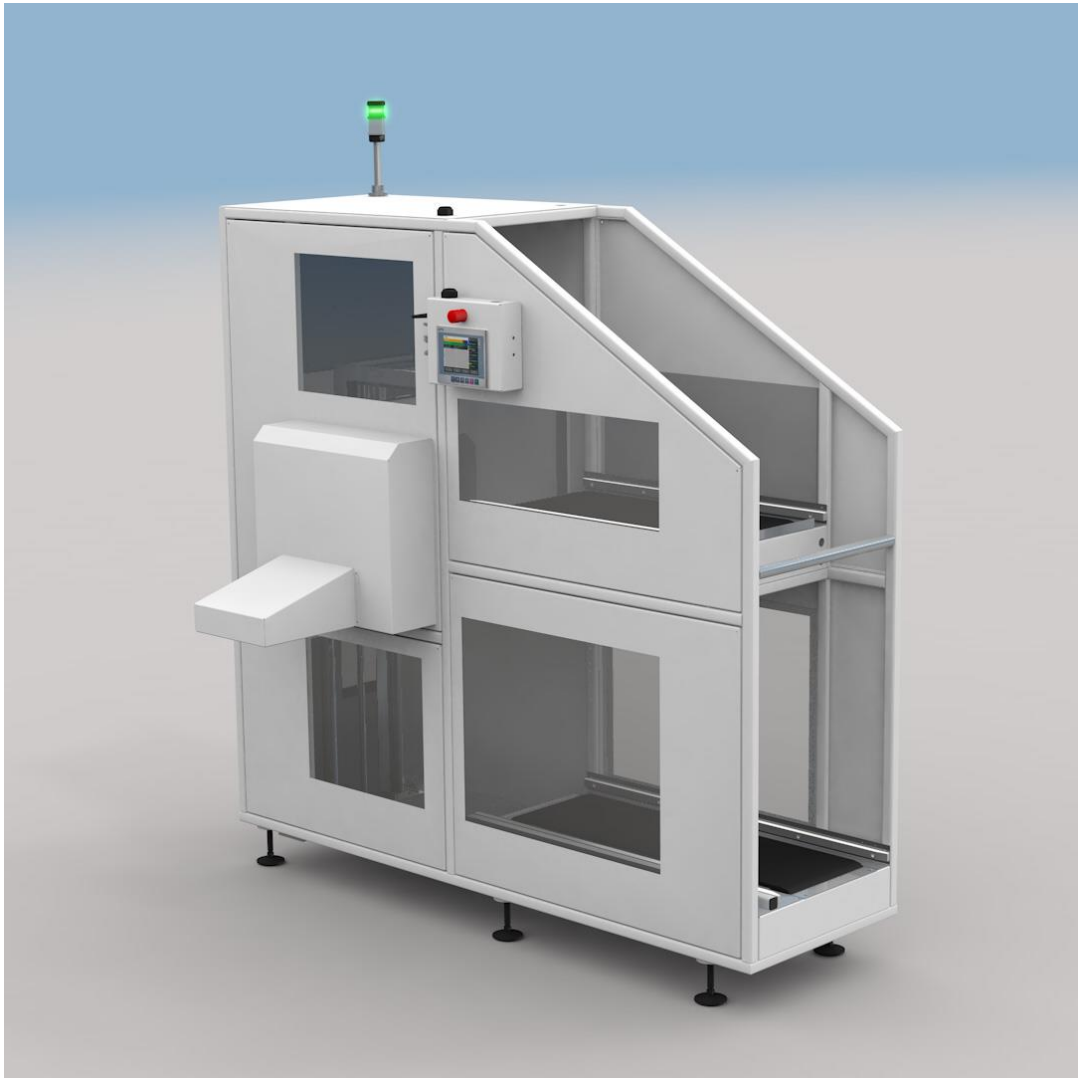
AES 04 Type1 (Straight)



AES 04 Type1 (90° Backside)



AES 04 Type1 (90° Frontside)



Multiple Magazine Line- Loader AES 04 Type2

› high capacity of up to 4 magazines
› automatic magazine exchange
› loading and unloading of magazines on two levels
› automatic magazine clamping
› cycle time: <8 sec.
› magazine exchange: 30 sec.
› Reload new magazine during operation



Detail: Magazine Supply



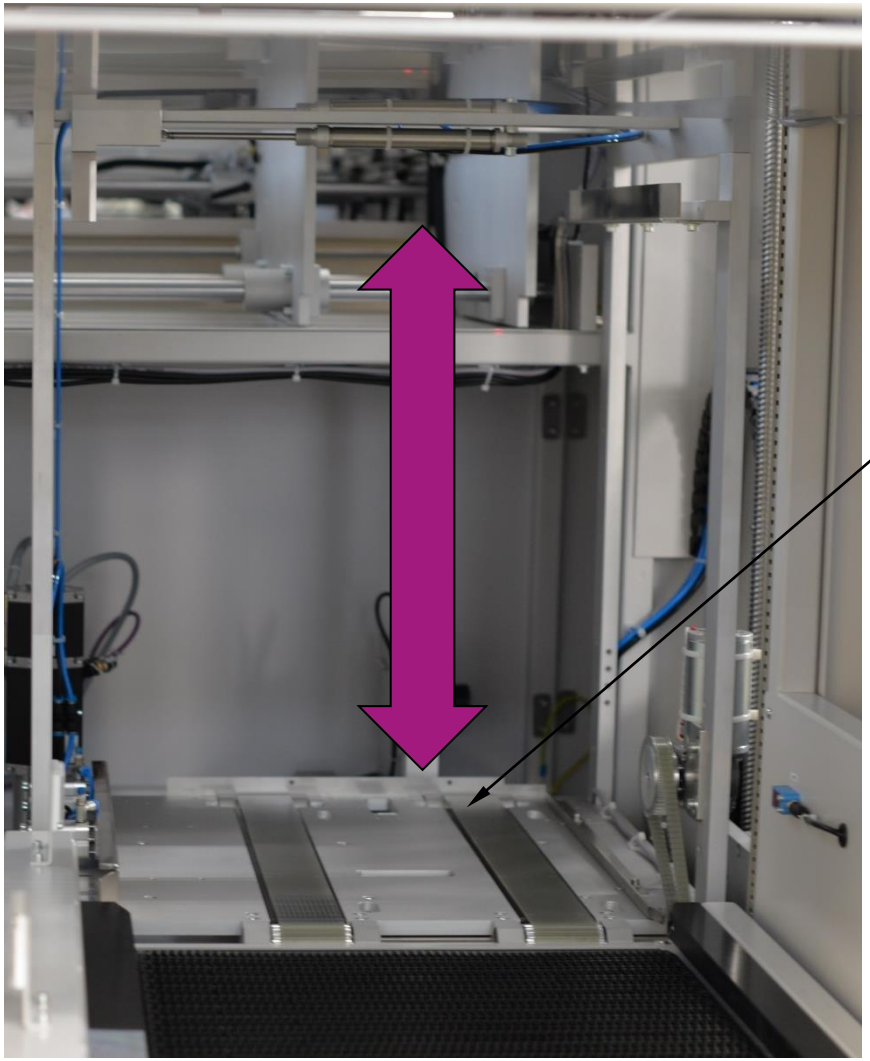
Empty magazine is unloaded on upper level

Buttons for the loading and unloading belt at the rear of machine for easy access

Full magazine is loaded on lower level



Detail: Magazine Table



Magazine table:

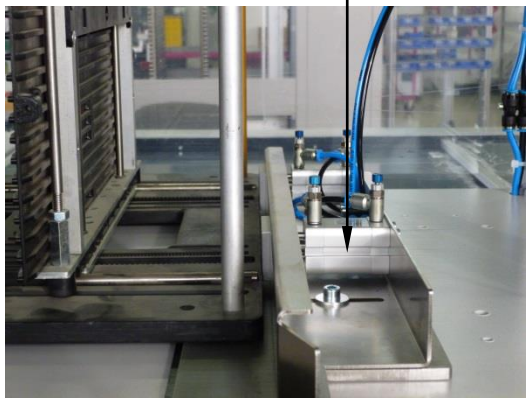
› loading full magazines on magazine table until it reaches sensor
› magazine is clamped pneumatically
› table cycles up to first unloading position
› machine is loading the line by unloading PCBs from the magazine

Detail: Magazine Clamping

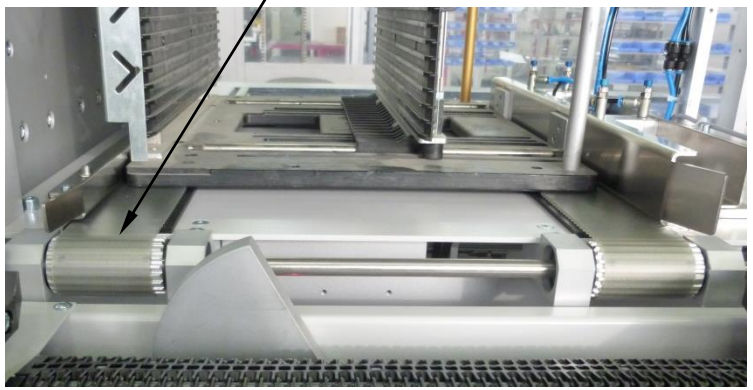


pneumatic magazine clamping, top

pneumatic magazine clamping, bottom



transport belts of the magazine table to load and unload magazines

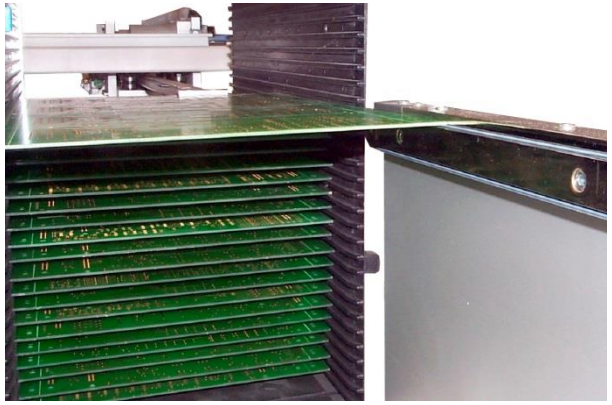


Detail: Extracting PCBs



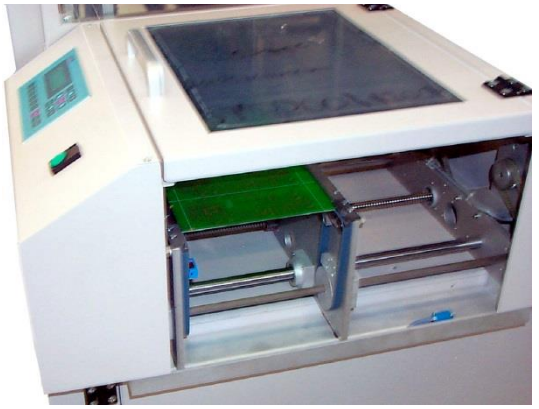
Step 1

Magazine cycles to unload position, pusher pushes PCB out of magazine.



Step 2

PCB is moved onto unloading conveyor



Step 3

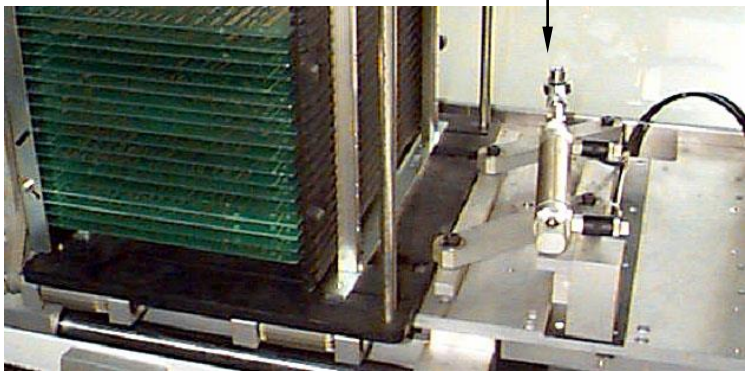
PCB on unloading conveyor, ready to be released to downline machine.

Detail: Universal magazin clamping piece

Universal Magazine clamping piece:

- automatic, pneumatic clamping of the magazine against the fix-rail side of the magazine station.

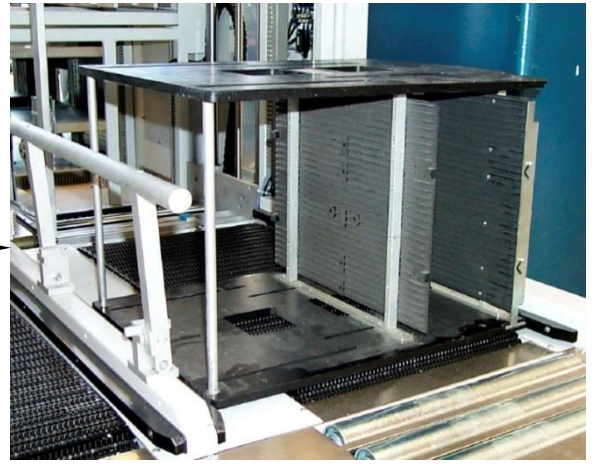
- magazine width about:
  320mm - 410mm and
  380mm - 470mm adjustable



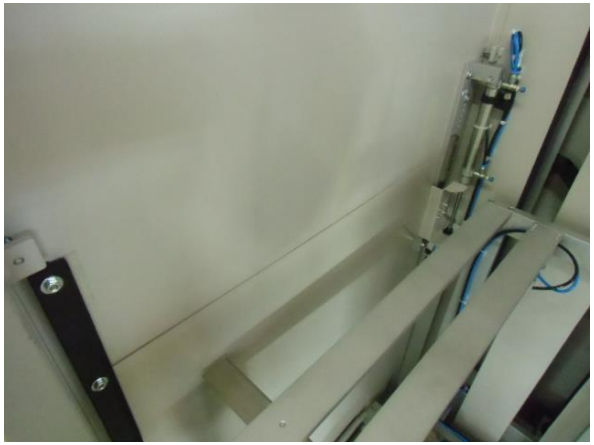
narrow magazines:
rail is flipped down



wide magazines:
rail is flipped up



Option: Shutter



Grip- protection between magazine table and following machine or rather an outlet conveyor closes before each movement.

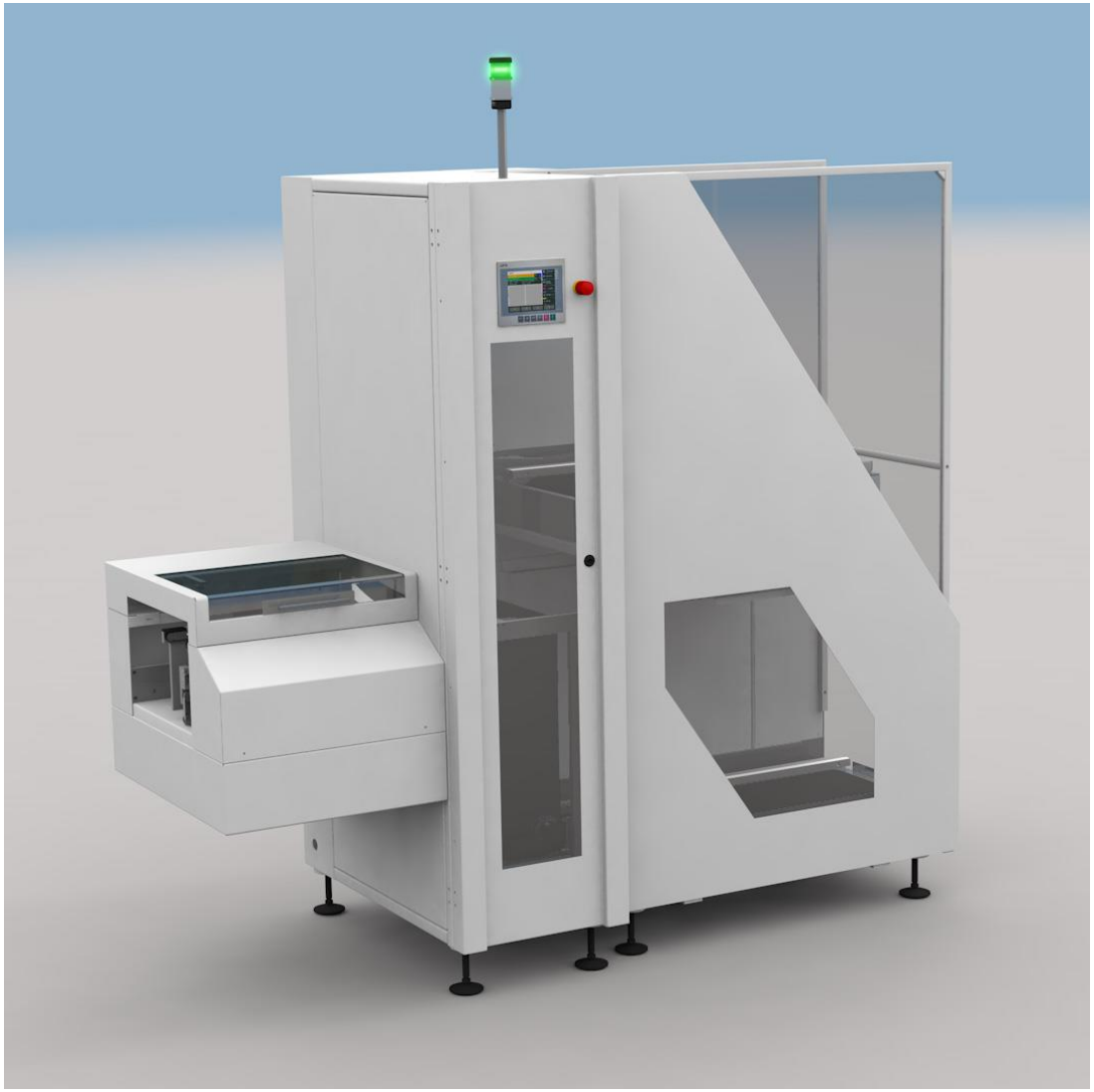


Pneumatically driven cylinder for opening and closing the shutter

Multiple Magazine Line- Unloader AMS 04

Technical specification	Type 1 Straight 	Type 1 90° Backside (RS) 	Type 1 90° Frontside (VS) 	Type 2 Straight 
Length	1430 mm	1020 mm	1020 mm	2630 mm
Width	860 mm	1820 mm	1820 mm	930 mm
Heigth	1820 mm	1820 mm	1820 mm	1820 mm
PCB- width	50- 260 mm	50- 260 mm	50- 260 mm	50- 460 mm
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Magazine slots	1- 50 Slots	1- 50 Slots	1- 50 Slots	1- 50 Slots
Magazin buffer input conveyor	2	2	2	3
Magazin buffer output conveyor	2	2	2	3

AMS 04 Type1 (Straight)



AMS 04 Type1 (90° Backside)



AMS 04 Type1 (90° Frontside)



Multiple Magazine Unloader AMS 04 Type2

› high capacity of up to 4 magazines
› automatic magazine exchange
› loading and unloading of magazines on two levels
› automatic magazine clamping
› cycle time: <8 sec.
› magazine exchange: ~ 30 sec.
› Reload new magazine during operation
› Narrow or wide version



Detail: Magazine exchange



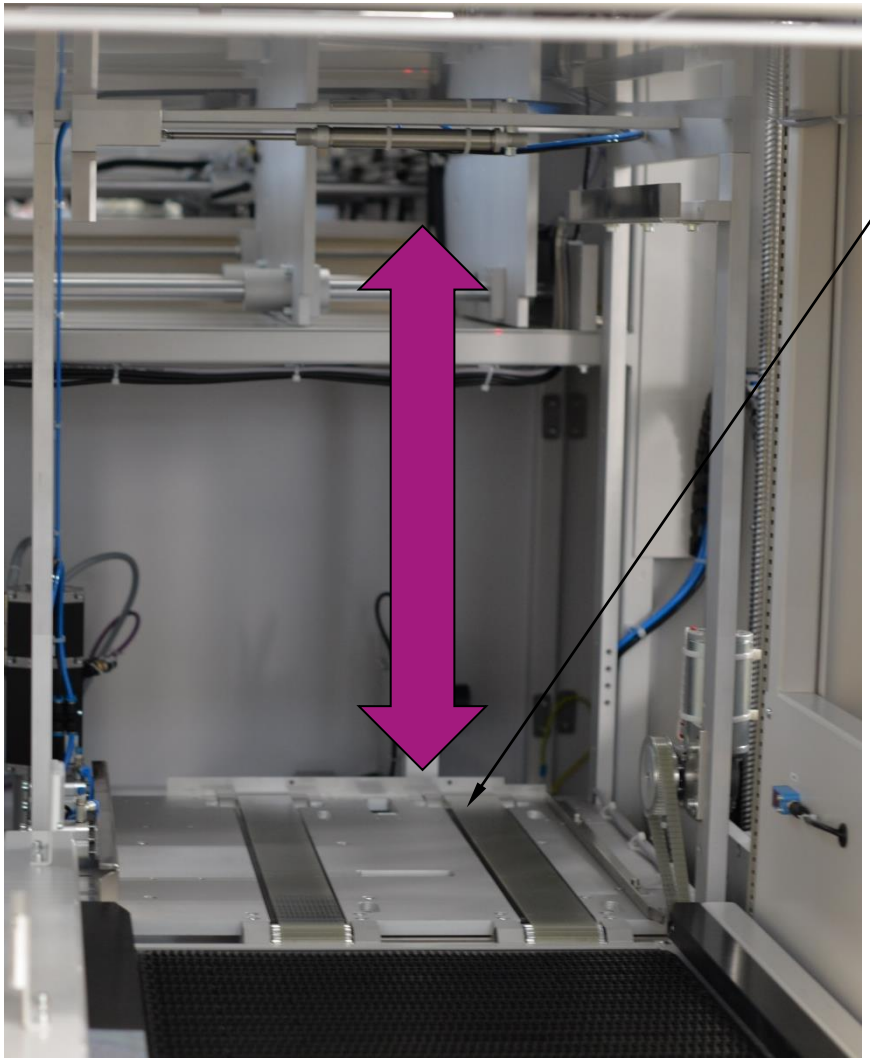
Empty magazine supply take place on top

Buttons for the loading and unloading belt at the rear of machine for easy access

Full magazine output take place on bottom



Detail: Magazine Table



Magazine table:

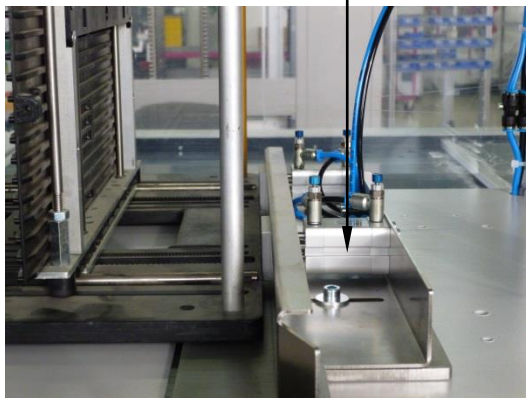
› loading empty magazines on magazine table until it reaches sensor
› magazine is clamped pneumatically
› table cycles down to first loading position
› loading of the magazines begins

Detail: Magazine Clamping

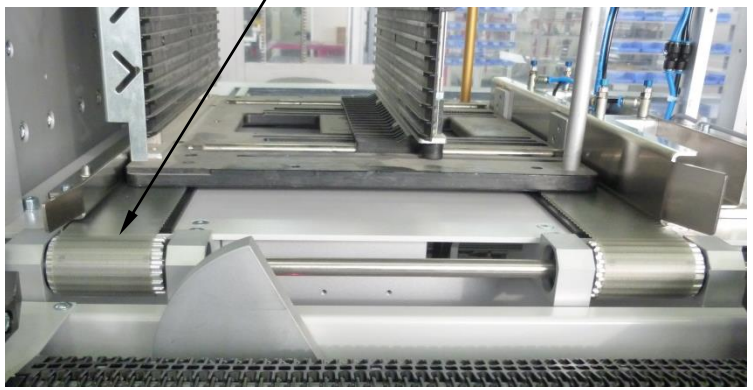


pneumatic magazine clamping, top

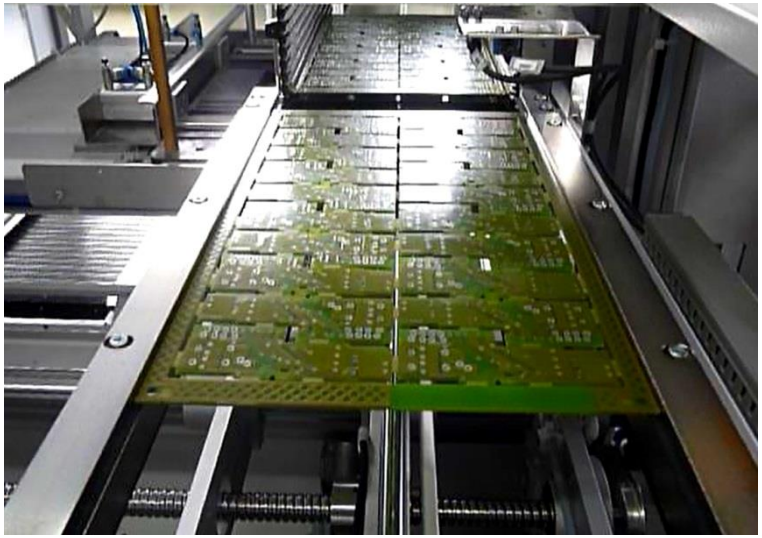
pneumatic magazine clamping, bottom



transport belts of the magazine table to load and unload magazines



Detail: Work Steps PCB- Loading



Step 1

PCB is taken over from N-1 onto the conveyor belt. Pusher folds up and pushes the PCB into the magazine.



Step 2

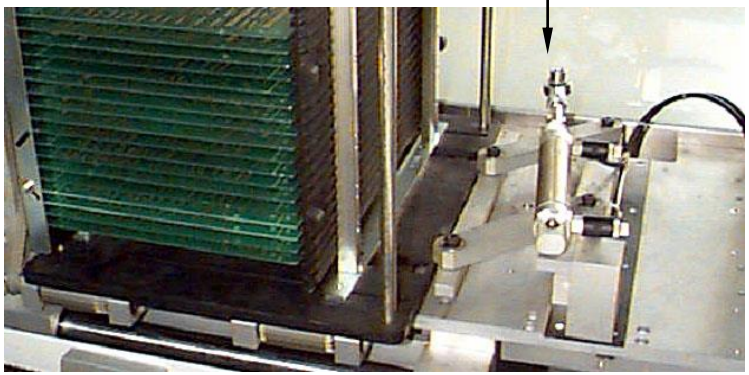
When the PCB is completely in the magazine, the pusher returns and the lift axis moves to the next slot position.

Detail: Universal magazin clamping piece

Universal Magazine clamping piece:

- automatic, pneumatic clamping of the magazine against the fix-rail side of the magazine station.

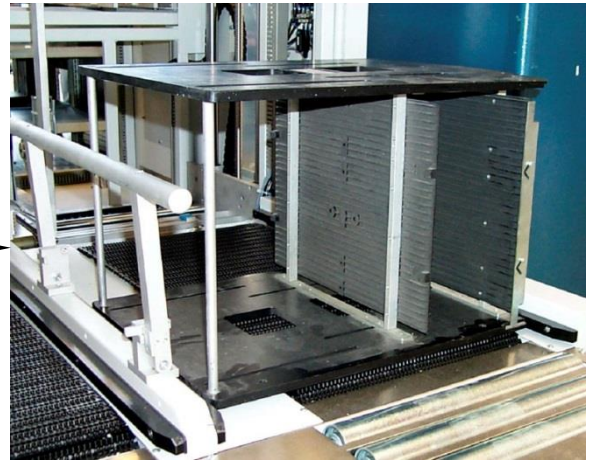
- magazine width about:
  320mm - 410mm and
  380mm - 470mm adjustable



narrow magazines:
rail is flipped down



wide magazines:
rail is flipped up



AEYE Automation Systems