ASYS GROUP

VEGO Dynamic AES 07 & AMS 07



Automation Systems

Multiple Magazine Line- Loader AES 07

› high capacity of up to 6 magazines

› loading and unloading of magazines on two levels

› two separate magazine tables

› automatic magazine exchange

› double rail operation possible

› division function

› cycle time: <8 sec.

› magazine exchange: 18 sec.

› Reload new magazine during operation

› no downtime due to full magazines



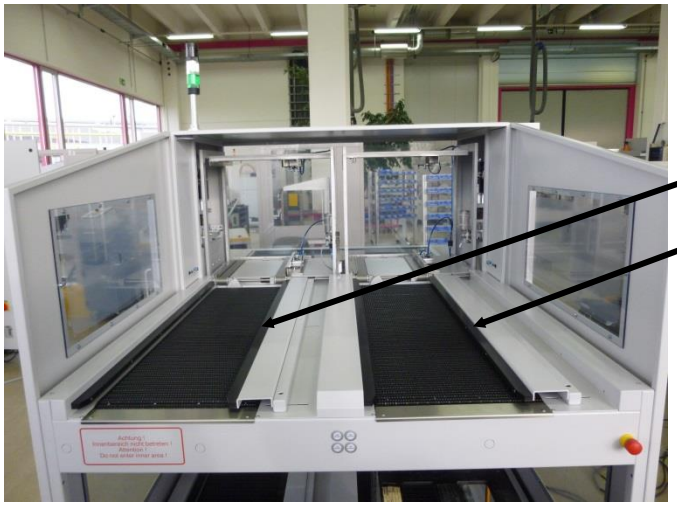
Automatische Linien- Beladestation AES 07

Technische Spezifikation

Länge	2685 mm
Breite	1662 mm
Höhe	1692 mm
LP Breite	50 - 460 mm
LP Länge	50 - 460 mm
Transporthöhe	850 mm +/- 50 mm (950 mm +/- 50 mm optional erhältlich)
Magazingröße (max. L x B x H)	535 x 530 x 568 mm
Magazinteilung	5 - 20 mm
Magazinraster	1 - 50 Slots
Magazinpuffer Zufuhrband	4 - 6 (+1 in Arbeitsstellung)
Magazinpuffer Entladeband	4 - 6 (+1 in Arbeitsstellung)

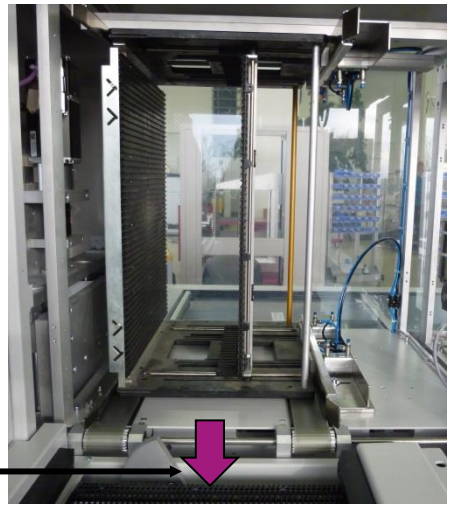


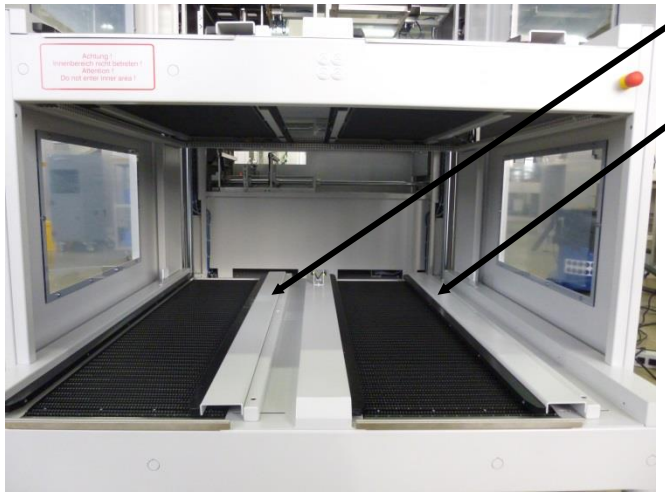
Detail: Magazine



magazines are unloaded on upper level

magazine table is unloading the empty magazine on transport belt





magazine loaded on lower level

full magazine is loaded on magazine table

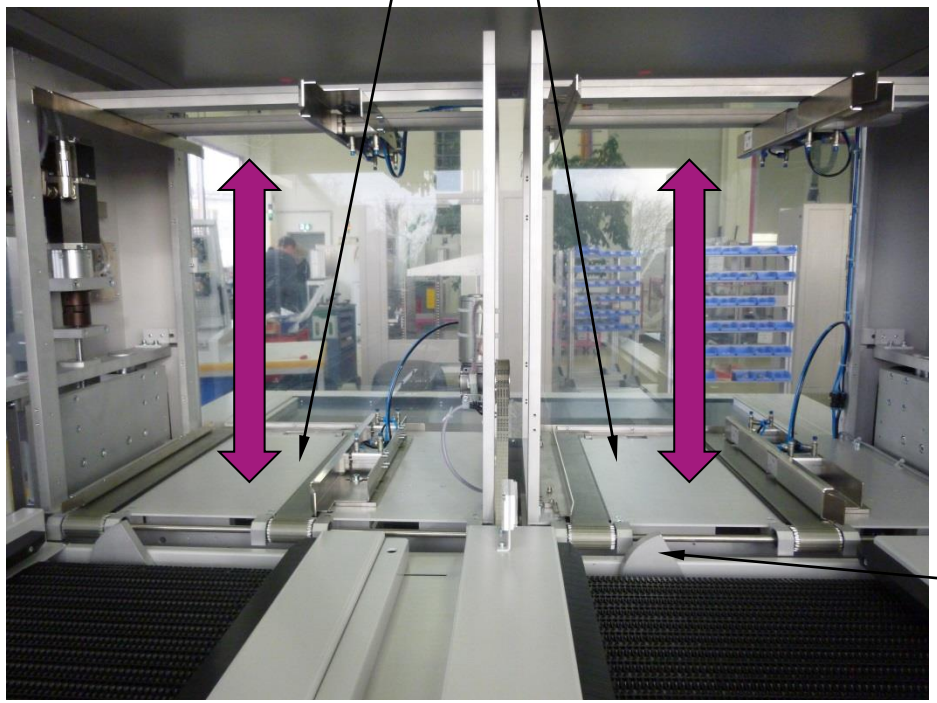


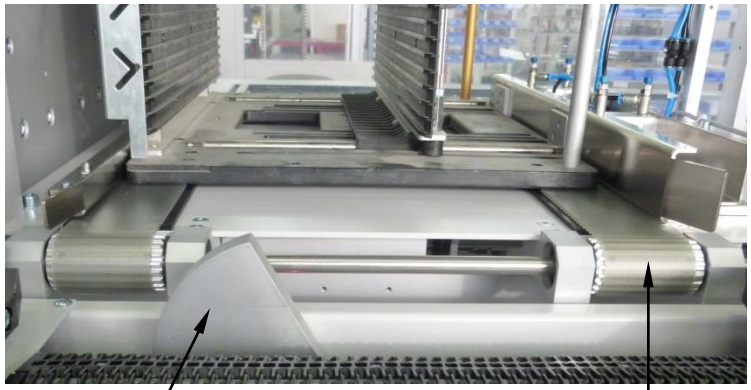
AEYE Automation Systems

Detail: Magazine Table

two separate working magazine tables:

› 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 extracting PCBs from the magazine





magazine stopper units at the end of supply belts

transport belts of the magazine table to load and unload magazines

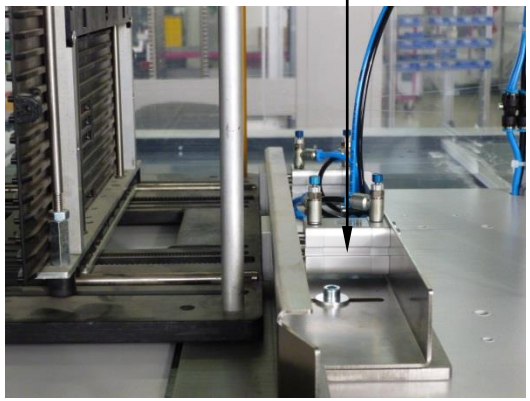
Detail: Magazine Clamping

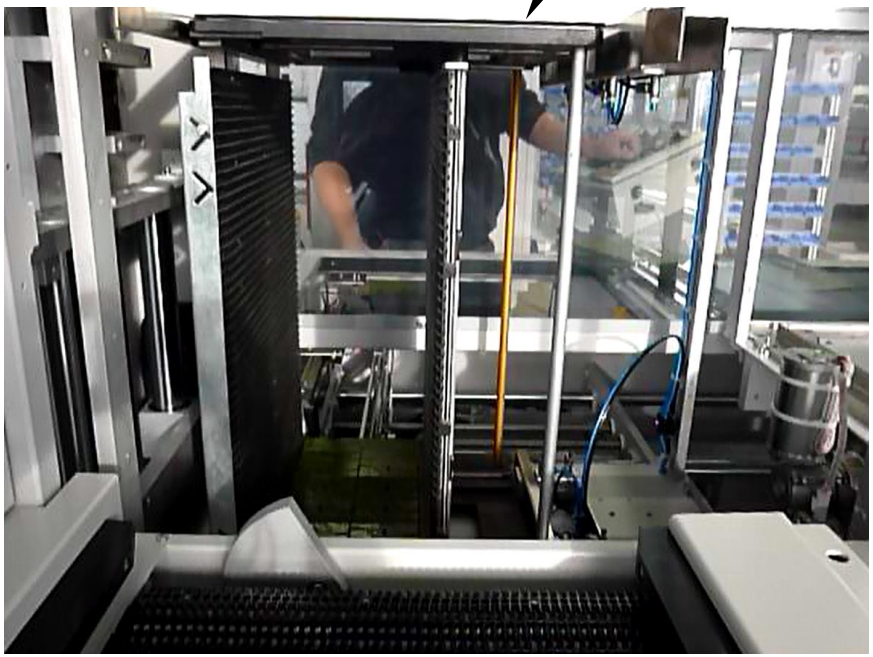


pneumatic
magazine clamping,
top

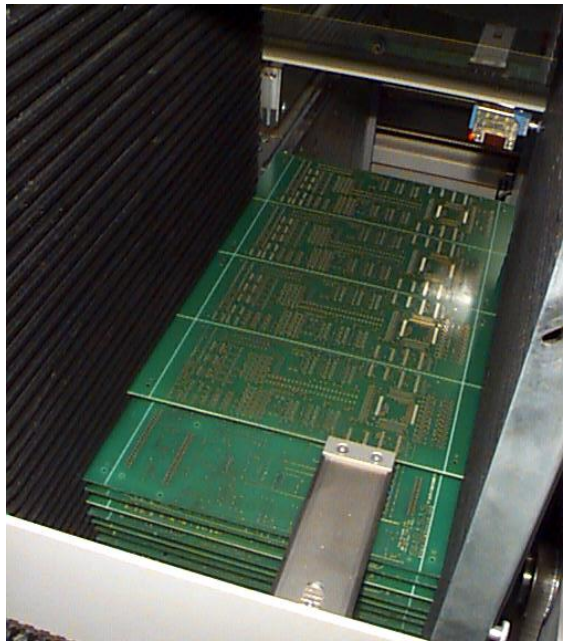
magazine table with
magazine in working
position

pneumatic
magazine
clamping, bottom



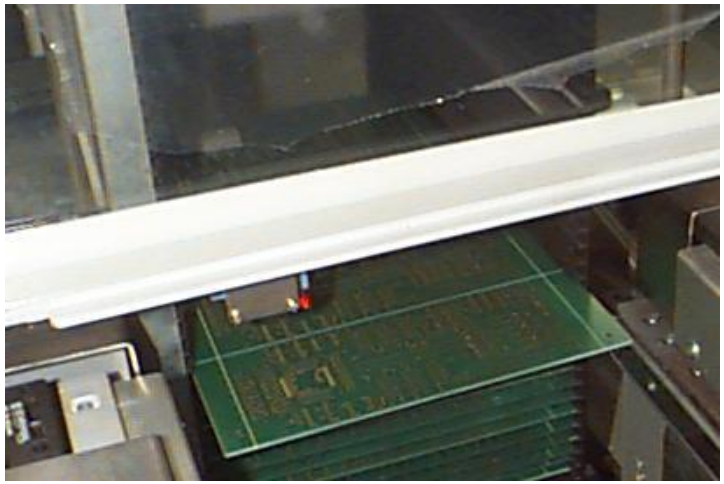


Detail: PCB Loading



Step 1

Magazine cycles to unload position. Pusher pushes PCB out of the magazine onto the unloading conveyor.



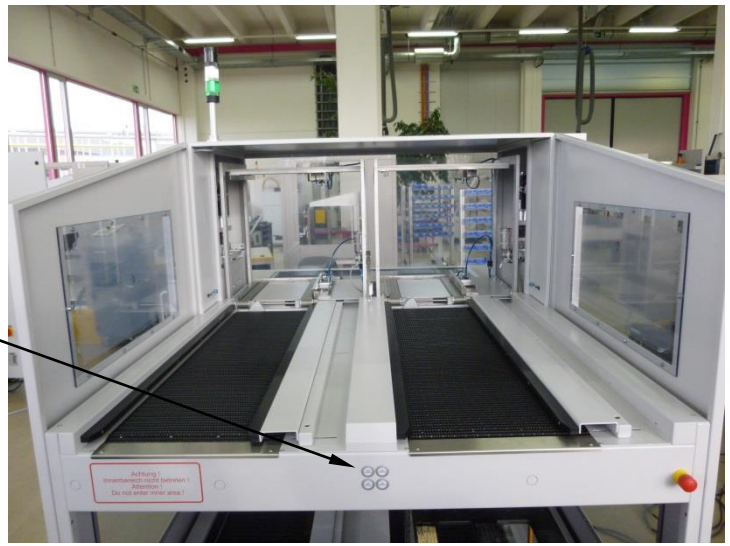
Step 2

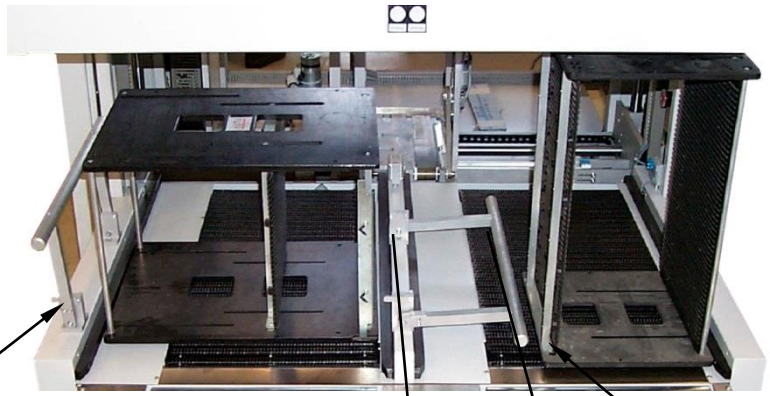
PCB moves to the end of the unloading conveyor and is ready to be released to the downline machine. Magazine cycles to the next unload position.

Detail: Magazine Supply

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







wide magazines: rail is flipped up

possible gain in floorspace per magazine in narrow version

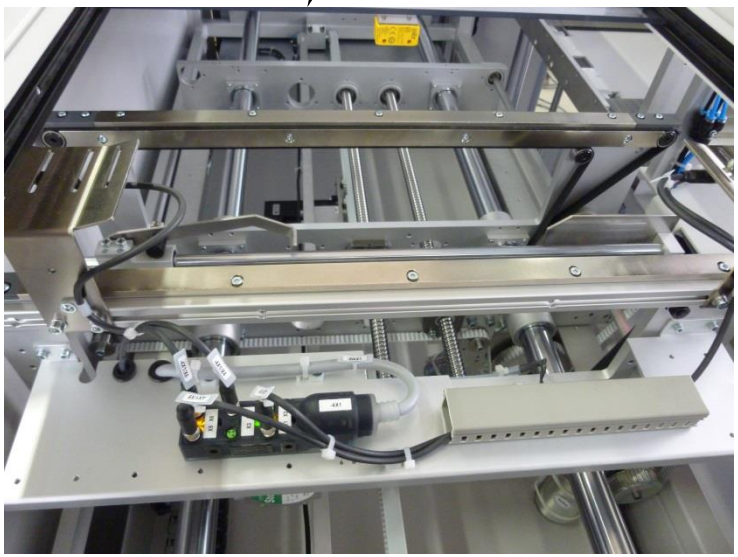
narrow magazines: rail is flipped down

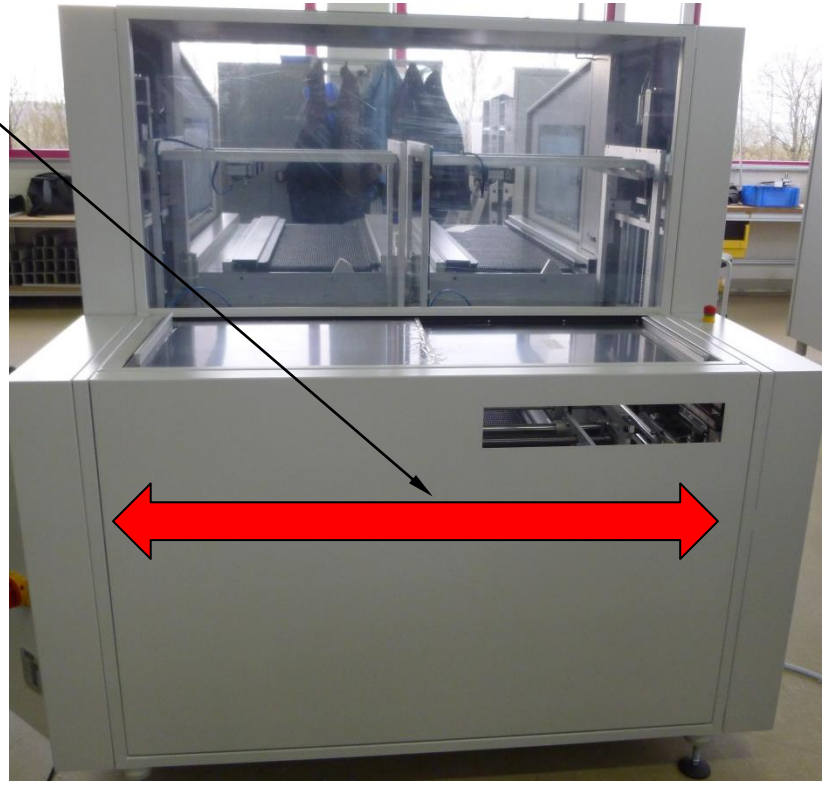
Detail: Shuttle

Shuttle serves both magazines

PCBs are extracted either from the right or left magazine

PCBs can be released rail depending





Multiple Magazine Line- Unloader AMS 07

› high capacity of up to 6 magazines
› loading and unloading of magazines on two levels
› automatic magazine exchange
› two separate magazine tables
› automatic magazine clamping
› dual track operation possible
› Sorting function possible (Option)
› cycle time: < 10 sec.
› magazine exchange: ~ 20 sec.
› Reload new magazine during operation



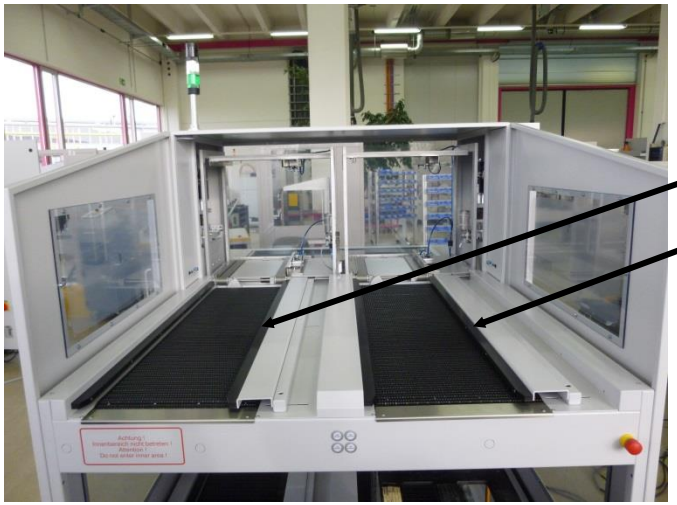
Multiple Magazine Line- Unloader AMS 07

Technical specifications

Length	2485 mm
Width	1562 mm
Size	1651,5 mm
PCB- width	50 - 460 mm
PCB- length	50 - 460 mm
Transport height	850 mm +/- 50 mm (950 mm +/- 50 mm optionally available)
Magazine size (max. L x W x S)	535 x 530 x 568 mm
Magazine pitch	5 - 20 mm
Magazine raster	1 - 50 Slots
Magazine buffer feed conveyor	4 - 6 (+1 in working position)
Magazine buffer outfeed conveyor	4 - 6 (+1 in working position)

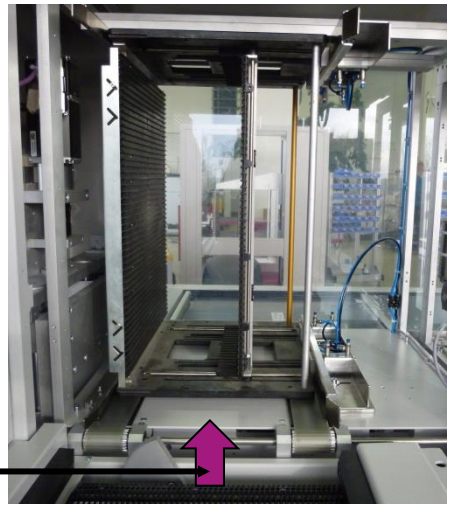


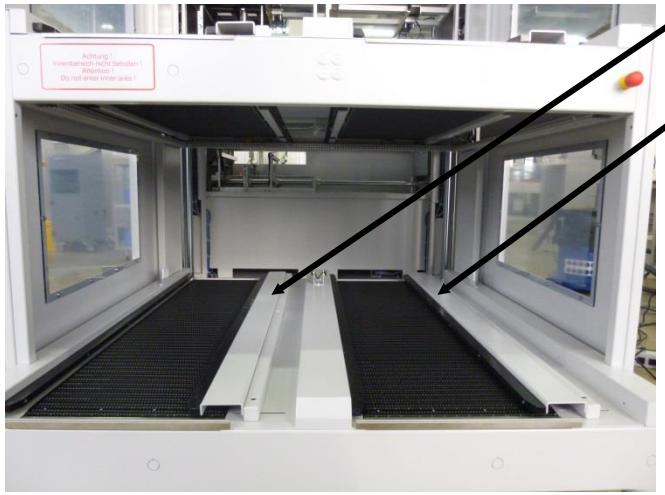
Detail: Magazine Exchange



Empty magazine supply take place on top

Magazine lift table takes over the PCB- magazine





Magazine output take place on bottom.

Magazine lift table hands over PCB- magazine



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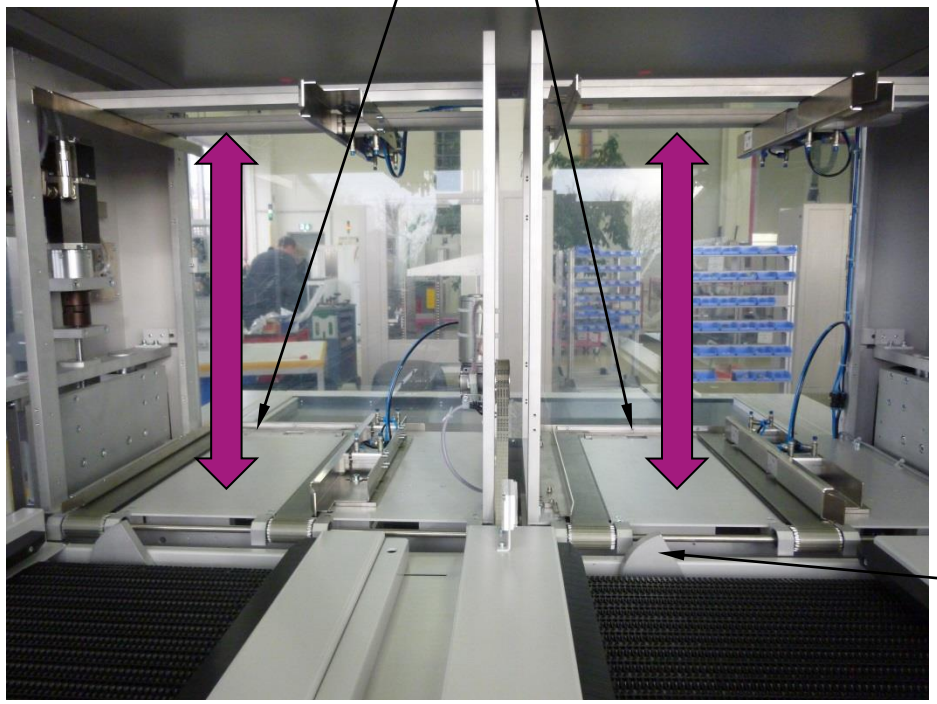
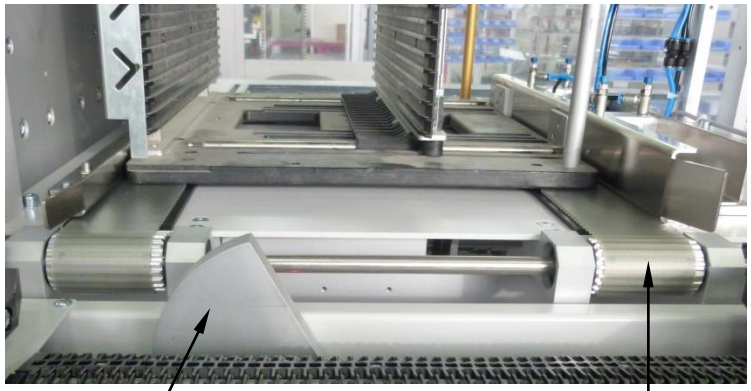
Detail: Magazine Table

two separate working magazine tables:

› 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





transport belts of the magazine table to load and unload magazines

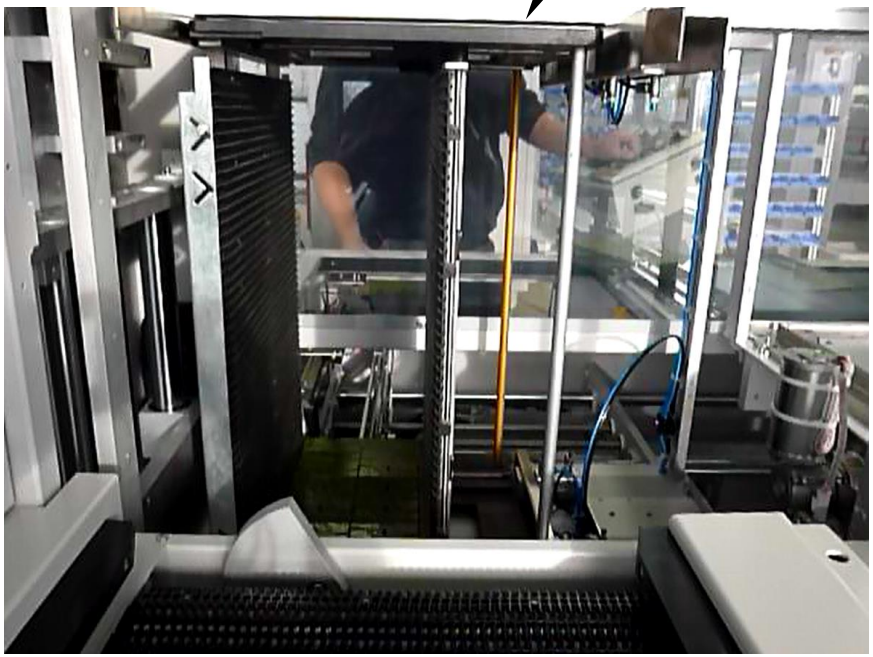
magazine stopper units at the end of supply belts

Detail: Magazine Clamping

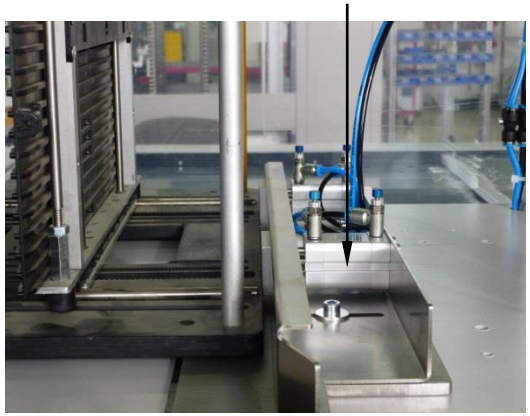


pneumatic
magazine clamping,
top

magazine table with
magazine in working
position



pneumatic
magazine
clamping, bottom



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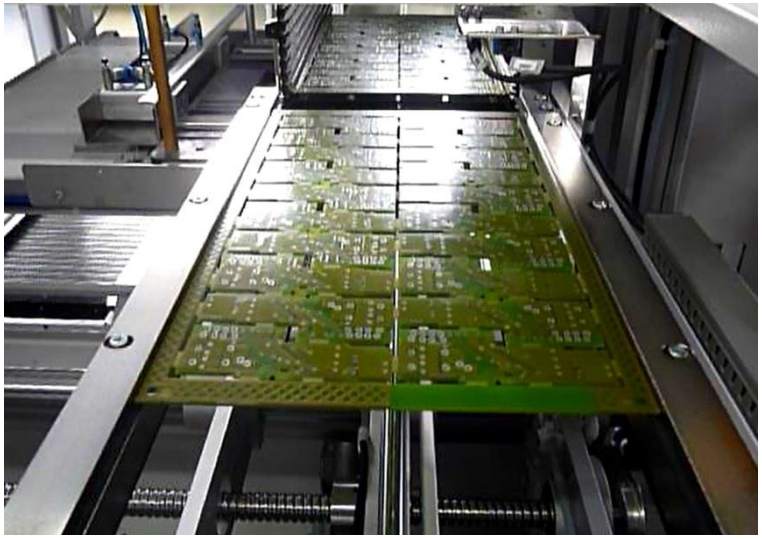
Detail: Work Steps PCB- Loading



Step 1

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



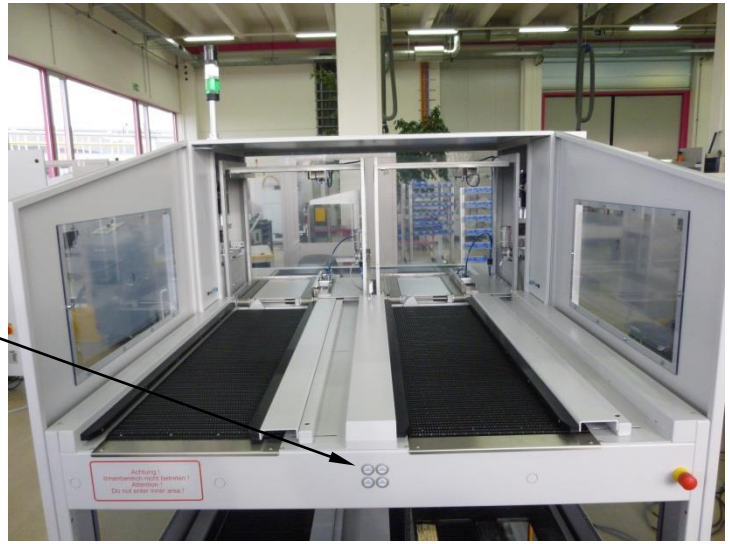
Step 2

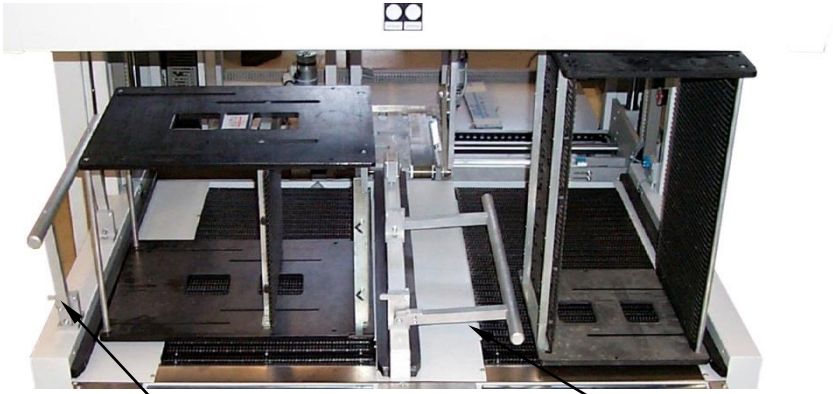
When the PCB is completely in the magazine, the pusher returns and the lift axis moves to the next slot position.

Detail: Operation / Magazine Supply

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







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narrow magazines: rail is flipped down

Detail: Shuttle

Shuttle serves both magazines

PCBs are handed over either to the right or left magazine

PCBs can be released rail depending

