ASYS GROUP

VEGO Dynamic TRM 01- 04

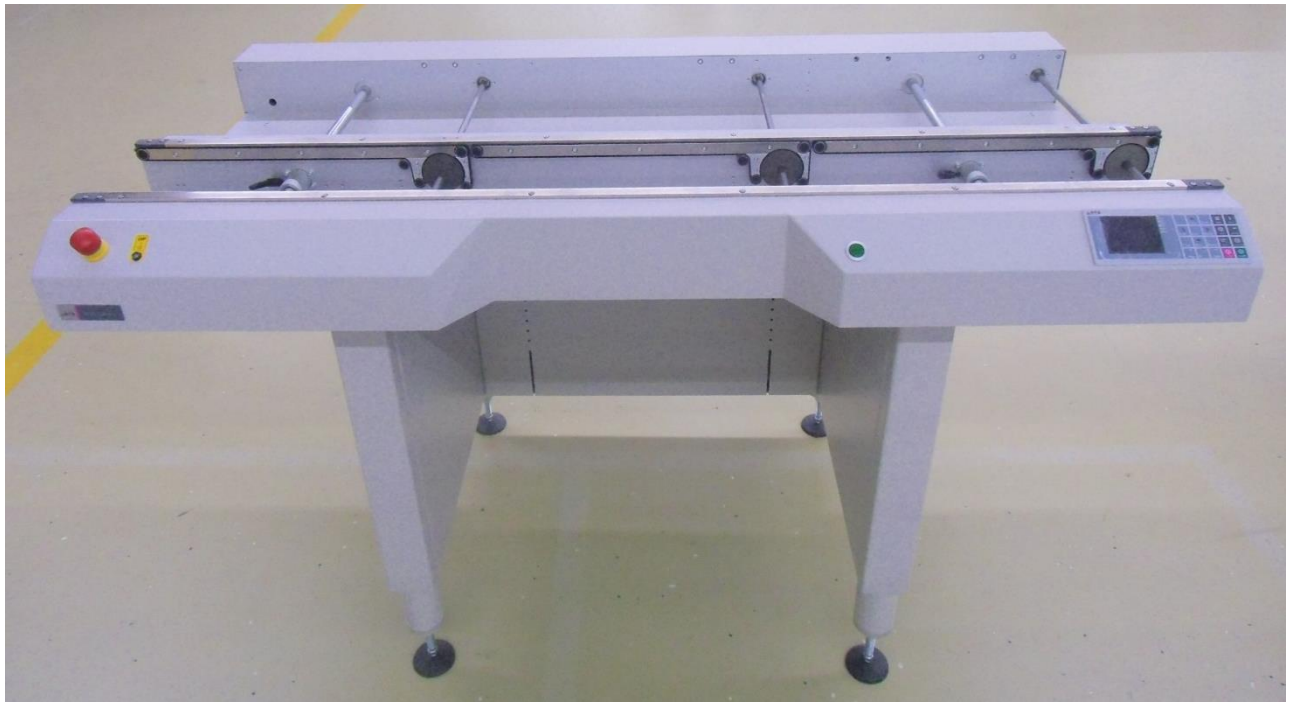


Description

› The transport conveyor TRM is used as a buffer element within different process machines. It also allows higher flexibility and better accessibility to printer, placement system, oven or AOI.



TRM01

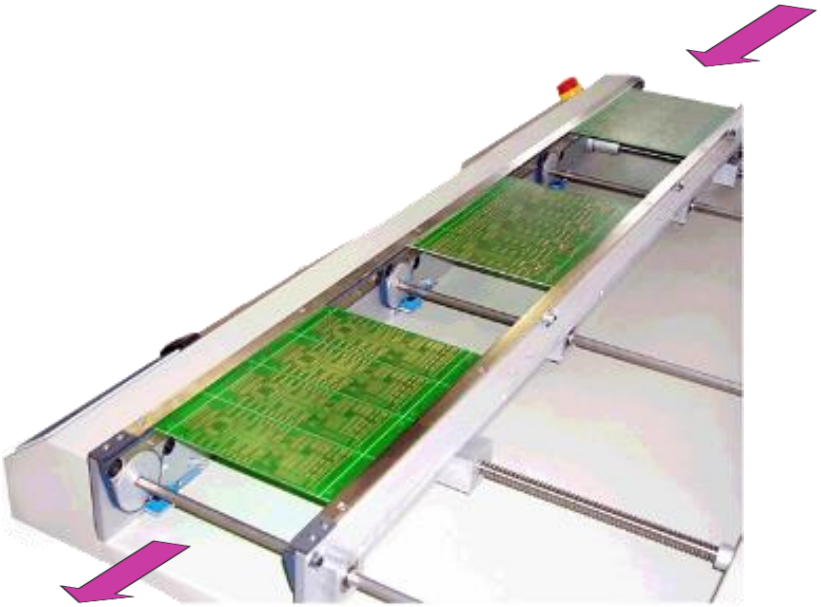


TRM03

Process

› The upstream station transfers the PCB into the TRM and will be transported to the following station. The transport of the PCB takes place cyclical.

› All TRM modules are also available in dual- lane and flexible dual –lane execution



Characteristics

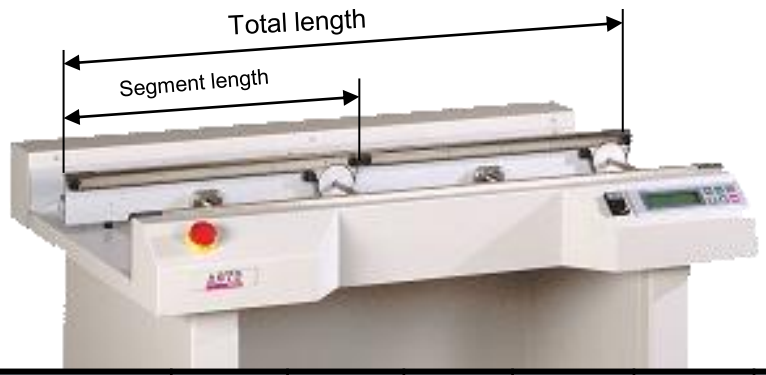
› Different segment lengths available

› Frame cutout for optional integrated ergonomic workstation (only for machines of length 1000 mm or more)

› Serial standard contains brackets for optional footrest and lamp assembly

› Lockable inlet for emptying the conveyor or manual insertion of PCB‘s

Overview Segment Lengths



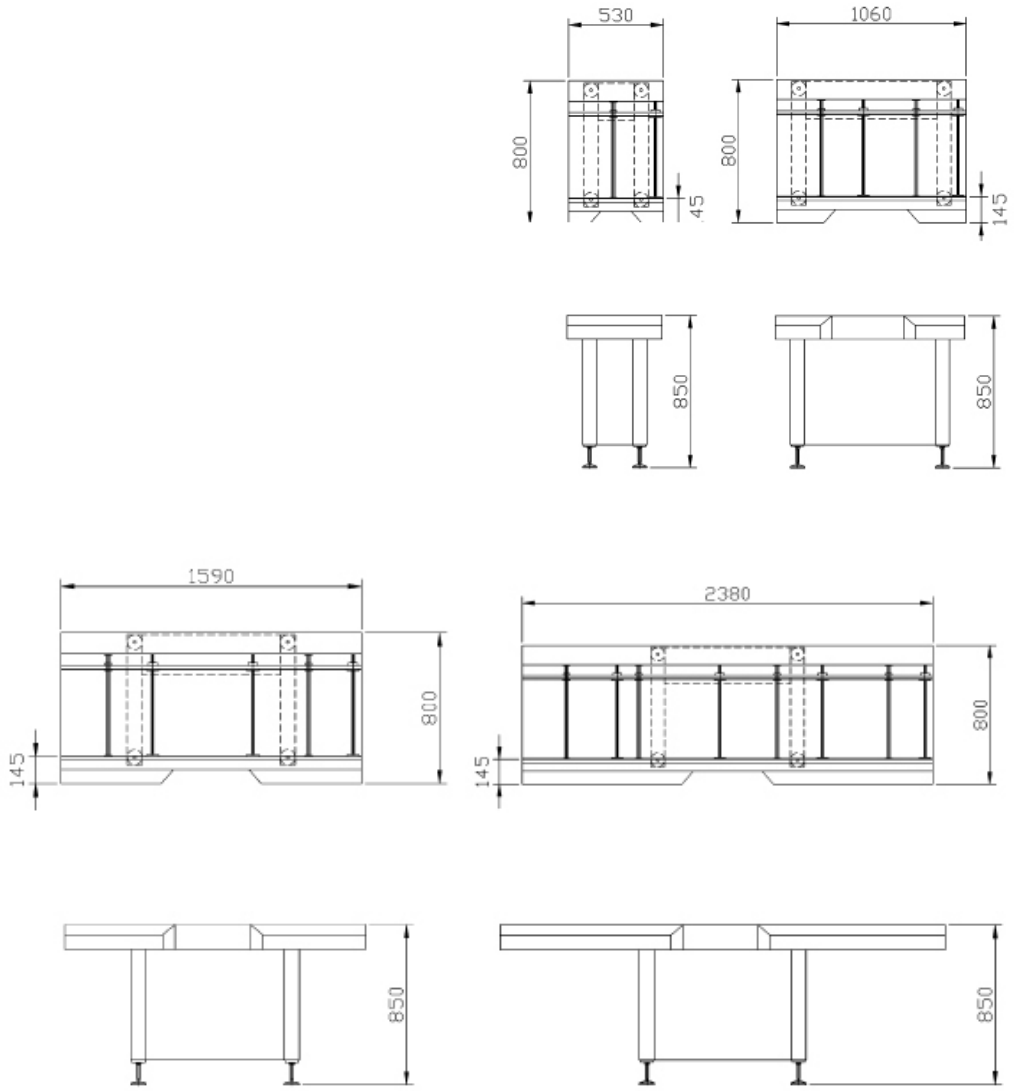
	Standard
	Sonderlänge zum Standardpreis
	Sonderlänge; Preis auf Anfrage
	Nicht verfügbar

* max. PCB- length 430mm

	200 mm	318 mm	400 mm	500 mm	530* mm	600 mm	700 mm	730 mm	750 mm	790 mm	800 mm	1000 mm
TRM 01 **(Gesamtlänge)**			1X (400)	1X (500)	1X (530)	1X (600)		1X (730)		1X (790)	1X (800)	1X (1000)
TRM 02 **(Gesamtlänge)**		2X (636)	2X (800)	2X (1000)	2X (1060)	2X (1200)	2X (1400)		2X (1500)	2X (1580)	2X (1600)	2X (2000)
TRM 03 **(Gesamtlänge)**	3X (600)	3X (954)	3X (1200)	3X (1500)	3X (1590)	3X (1800)	3X (2100)				3X (2400)	
TRM 04 **(Gesamtlänge)**		4X (1272)	4X (1600)	4X (2000)	4X (2120)	4X (2400)						
TRM 05 **(Gesamtlänge)**		5X (1590)	5X (2000)	5X (2500)	5X (2650)							
TRM 06 **(Gesamtlänge)**			6X (2400)	6X (3000)	6X (3180)							

Technical Specification

Standard length	530 mm; TRM 01 1060 mm; TRM 02 1590 mm; TRM 03 2120 mm; TRM 04
Width	**800 mm**
Height	850 mm
PCB width	50 - 460 mm
PCB length	70 - 460 mm
Transport height	850 mm +/- 50 mm (950 mm +/- 50 mm option)
Cycle time	< 6 Sek (depending on segment length)



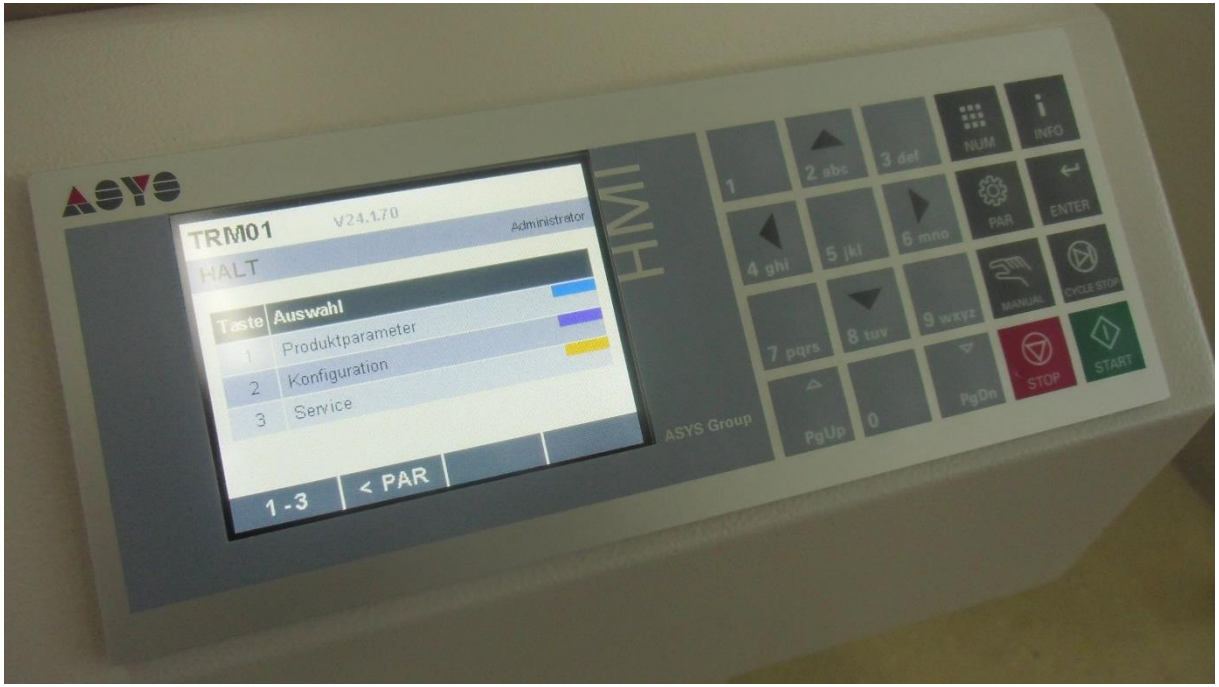
Operation

› Operator panel with graphical color display

› Changing parameters and setup new recipes during automatic mode

› Password protected user level (configurable)

› Product memory function



Frame

› Robust steel tube / metal frame

› Complete ESD powder coating



Mechanic

› Mechanic built from anodized aluminium

› Rails made of nickel plated steel

› In-/ outlet guides are hard- coated



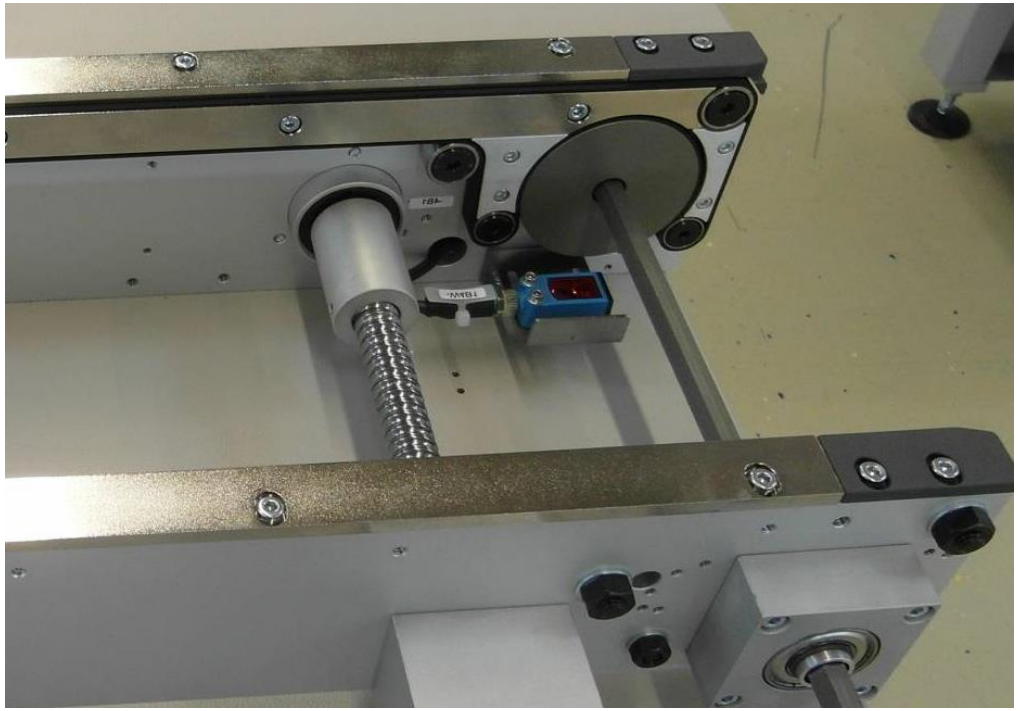
Details

› Edge support adjustable from 2 – 4 mm

› Tool- free belt change

› ESD compliant conveyor belts

› DC- Drive motor

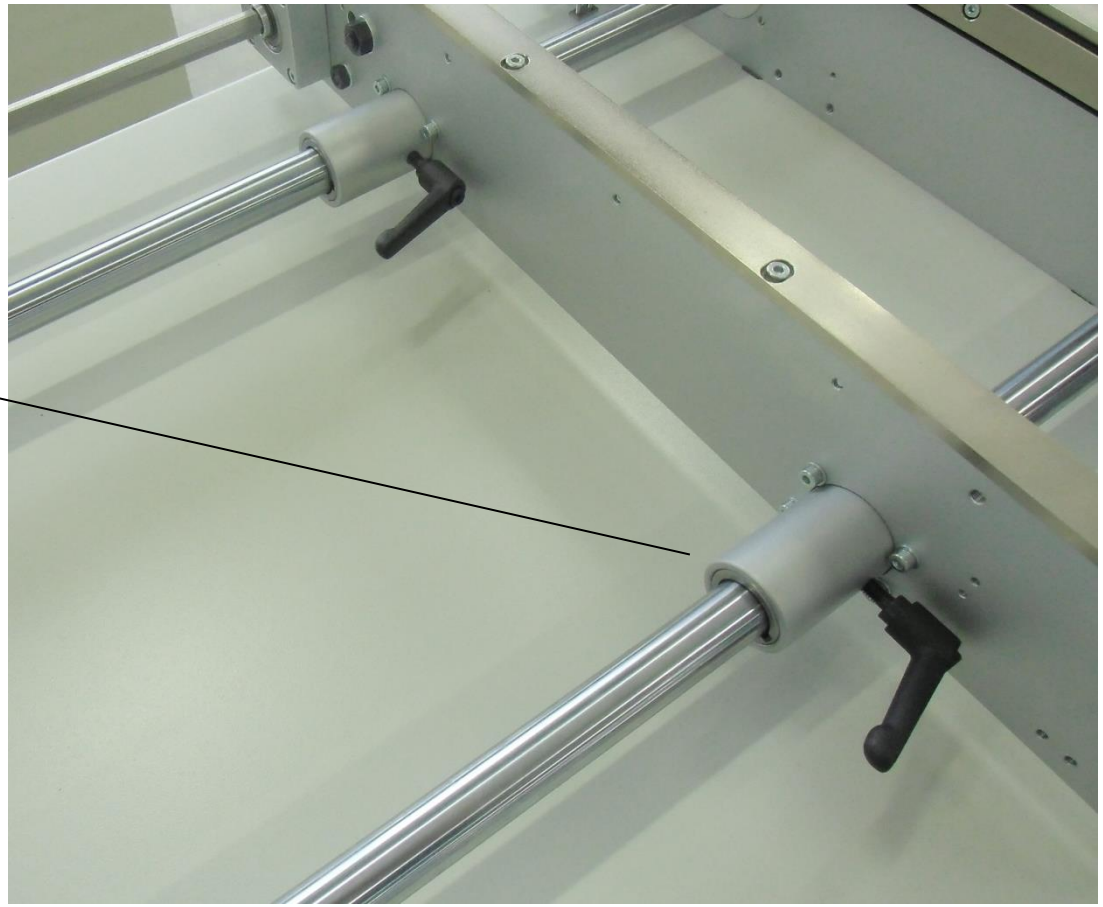


Manual Width Adjustment (Standard)

› Manual adjusting of the PCB widht by clamping lever

› Maintenance free and low backlash

Ball-bearing guides on hard-chrome shafts

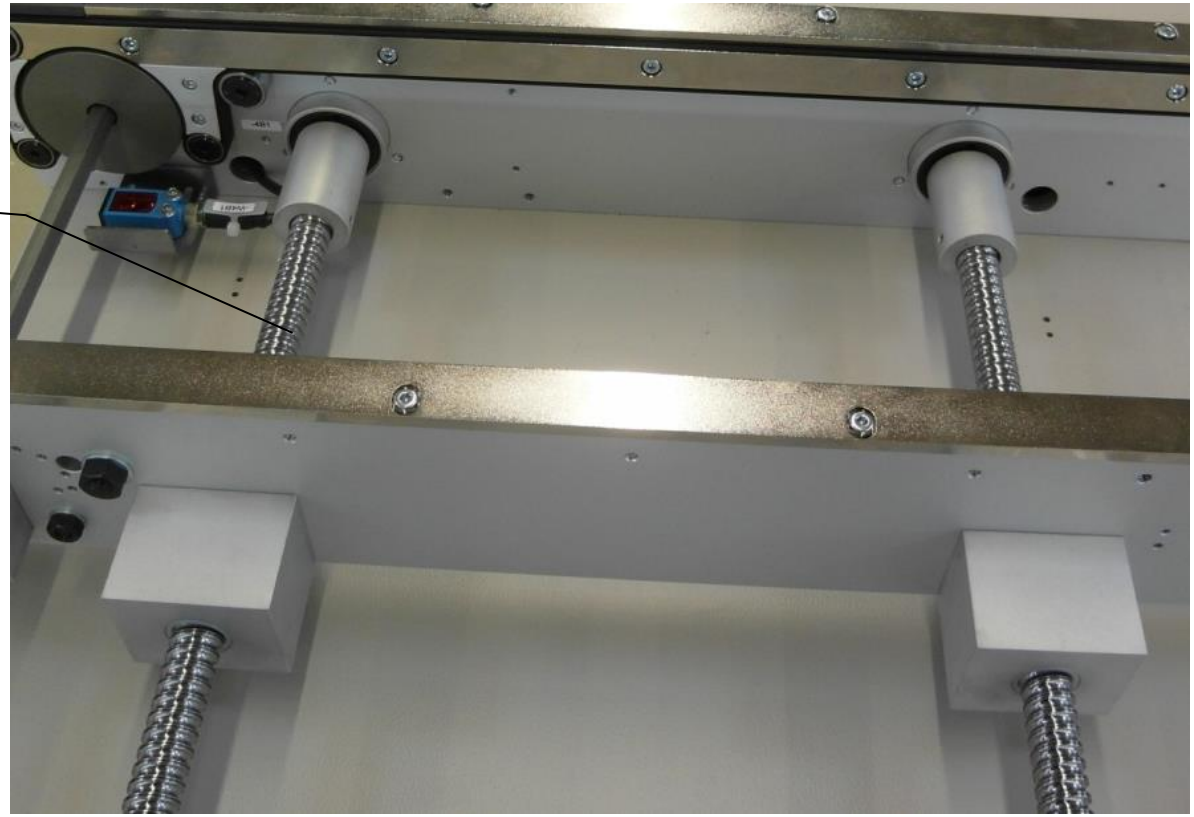


Electrical Width Adjustment (Option)

› Width adjustment by electrical driven spindles.

› Setting by the cursor buttons on the operator panel

Maintenance- free ball screw spindles, motor driven



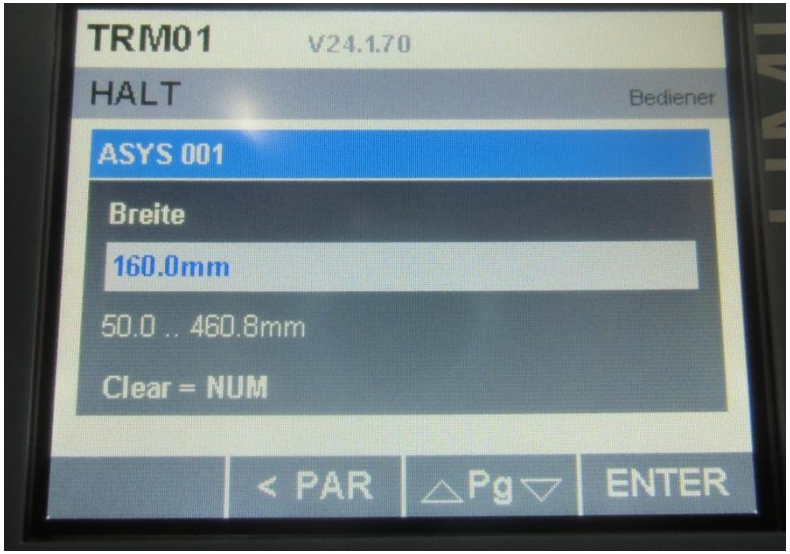
Automatic Width Adjustment (Option)

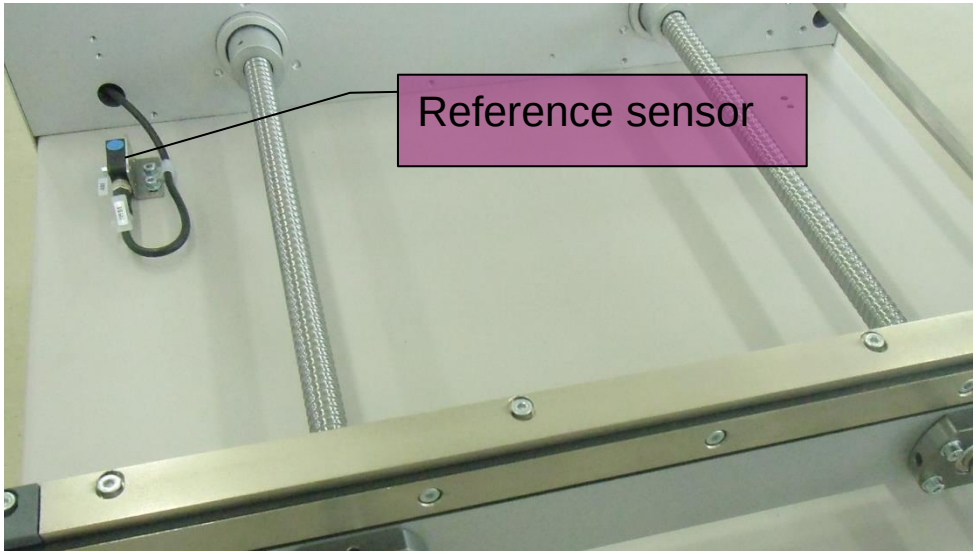
› In addition to option „electrical width adjustment“

› Setting by absolute value input at the operator panel

› Width offset adjustable (standard is 0,6 – 0,8 mm)

› Getting the width from n-1 (available with the additional option „IC-Net“)



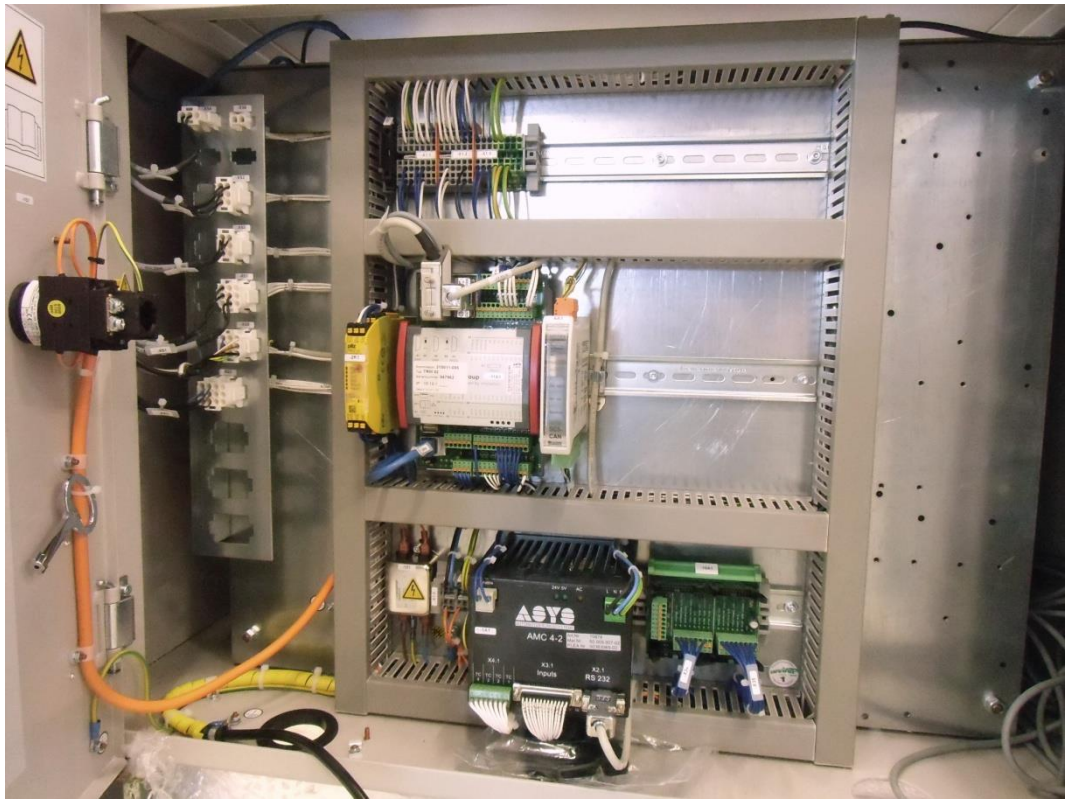


Electric

› Control cabinet door with double-bit lock

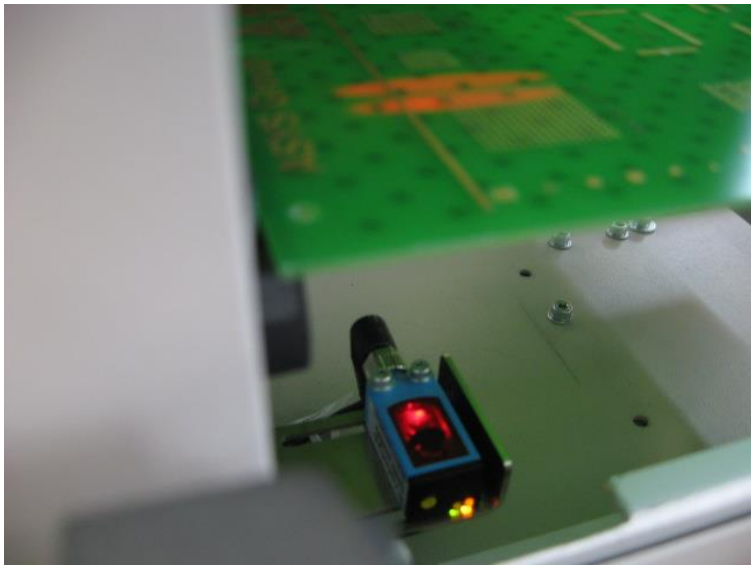
› Main switch on machine backside can be used as emergency stop

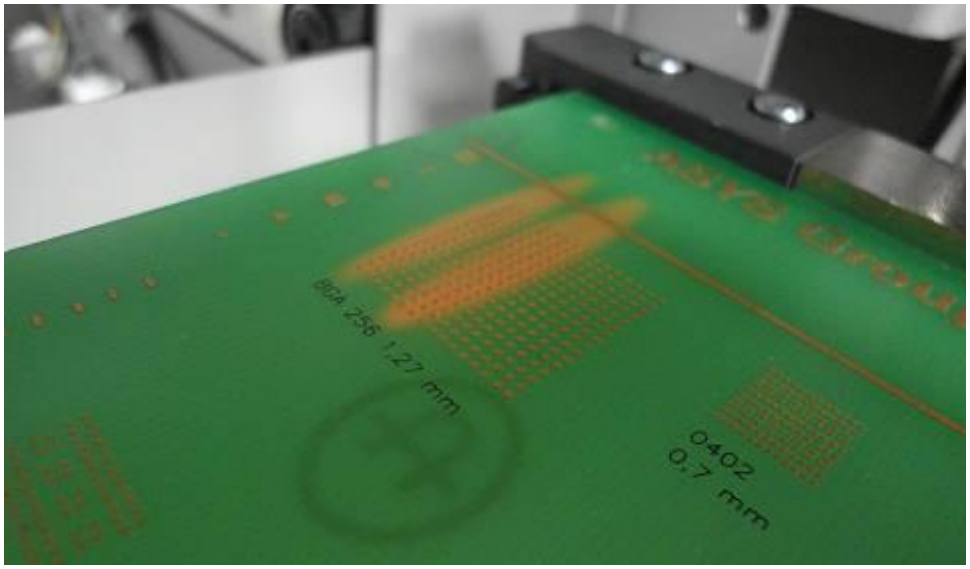




Sensing

› High quality, multi beam light sensors for reliable recognition of PCBs with cut-outs





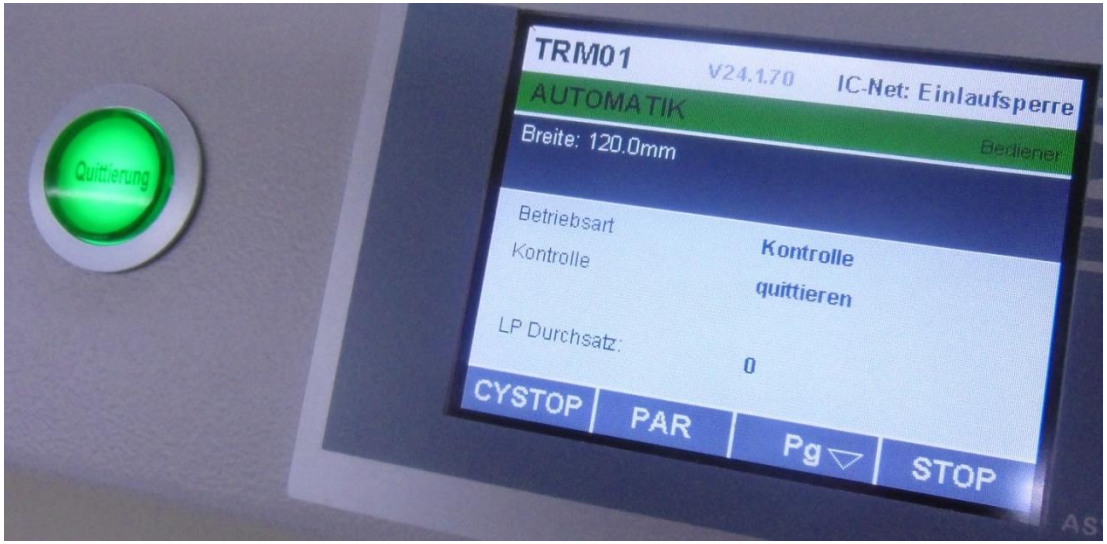
Option : PCB Inspection

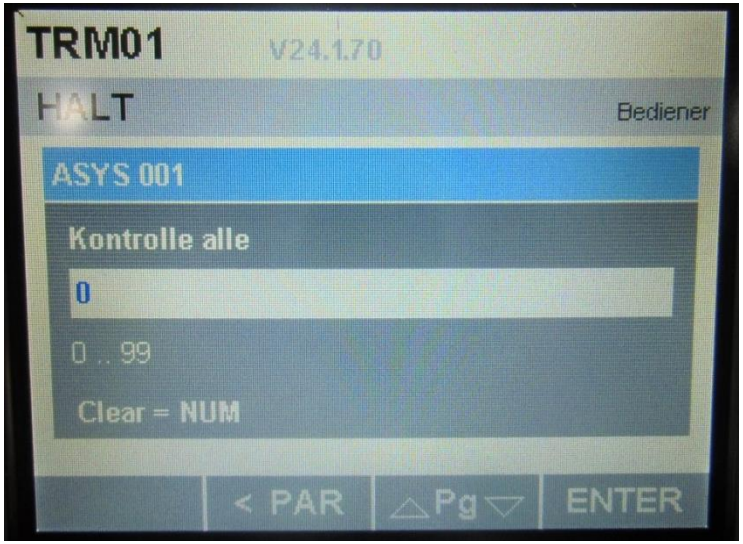
› Adjustable inspection counter from 0 - 99

› Displaying the counter level

› Inspection segment configurable

› Illuminated confirm button



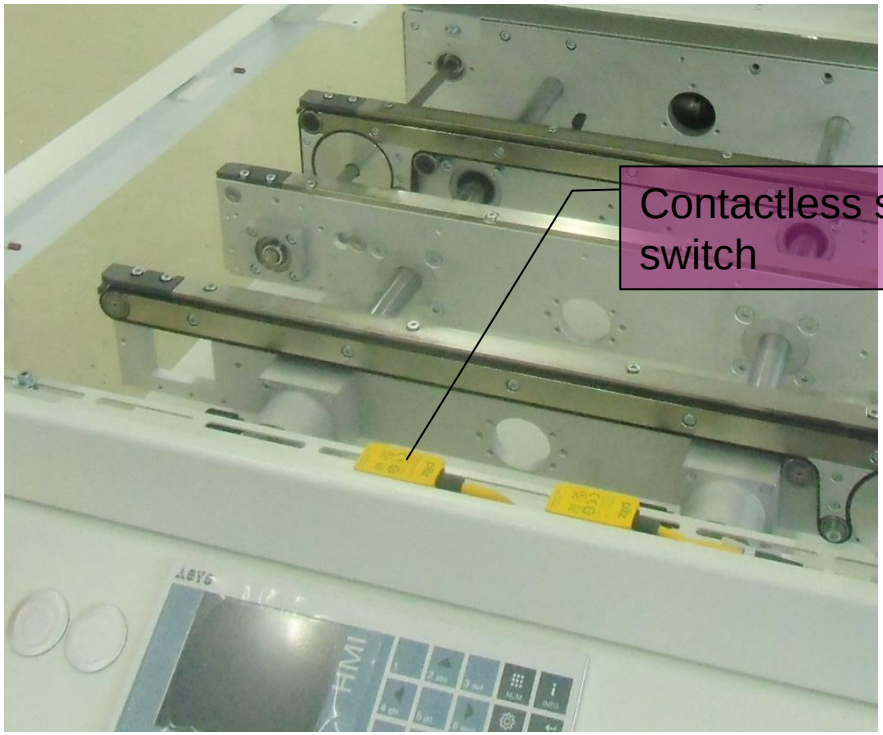


Option : Dust Cover / Safety Cover

› Hinged ESD- cover (dust cover)

› Hinged ESD- cover with safety switch for interruption of n-1 / n+1 machine

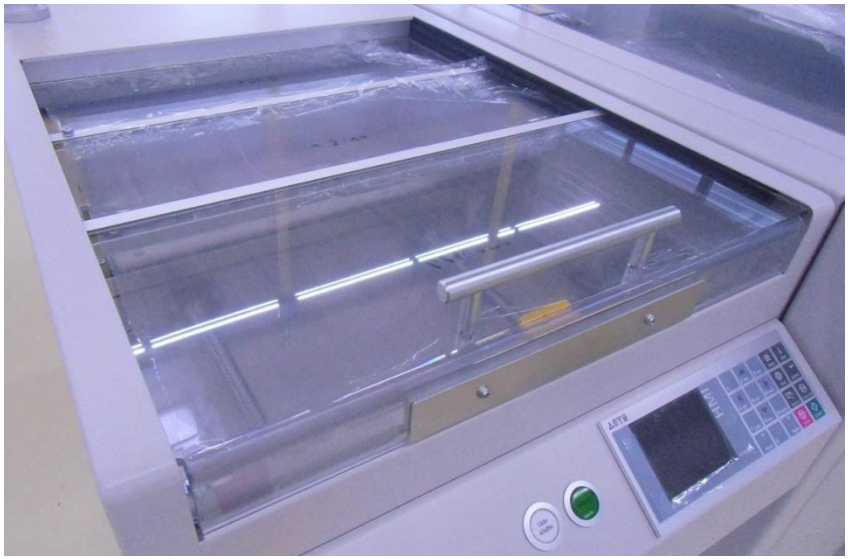


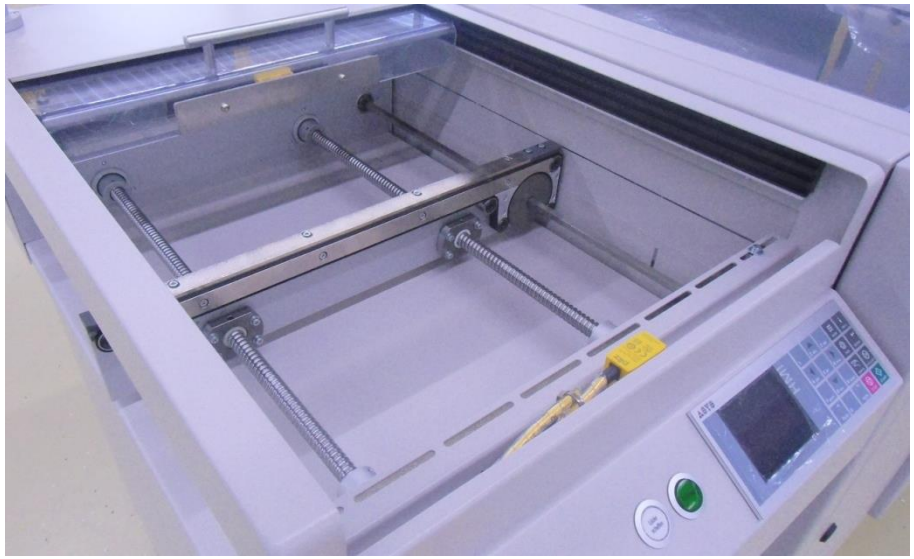


Option: Slide Cover

› Variation as three-part slide cover

› With-/ without safety switch



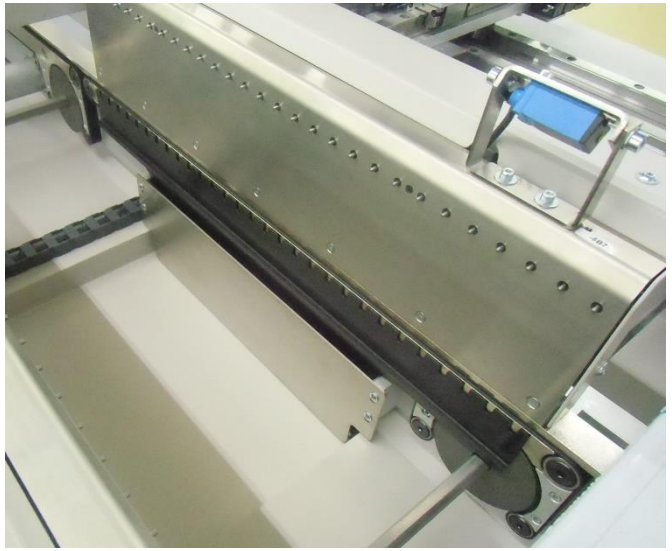


Option: Lift Mechanism

- Lift mechanism optionally
  - To outfeed “faulty” PCB’s after AOI or SPI
  - For sample inspection (adjustable inspection counter from 0 – 99)
- Lift segment selectable
- Up to 3 lift mechanism (at TRM 03)

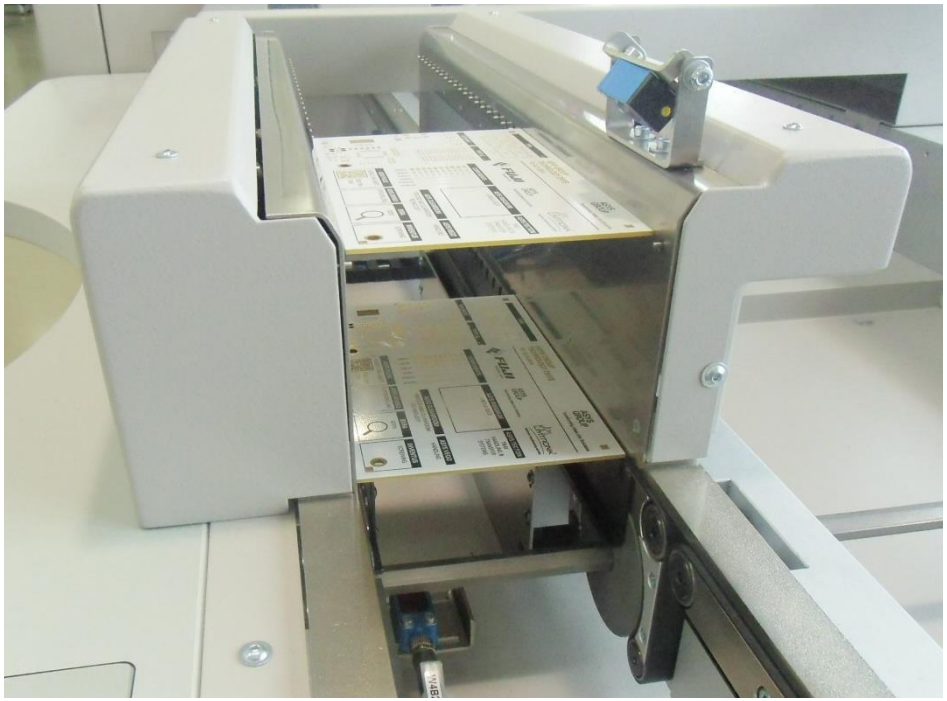






Function Principle Of The Lift Mechanism

- The PCB is lifted up by two thin metallic sheets and holded by metal pins from the side.
- The PCB can now be removed or introduced back into the process line by pressing the confirm button.
- During one PCB is lifted, others can pass underneath.



Option: Work Station Package

- Selling article 81.999.021 includes following parts:
  - Illumination unit
  - ESD worktable with cutout
  - Footrest
  - Bin- holder
  - PCB inspection function 0-99



TRM02

Example TRM03 workstation

Additional elements like monitor holder, PC holder, keypad holder etc. are also possible.
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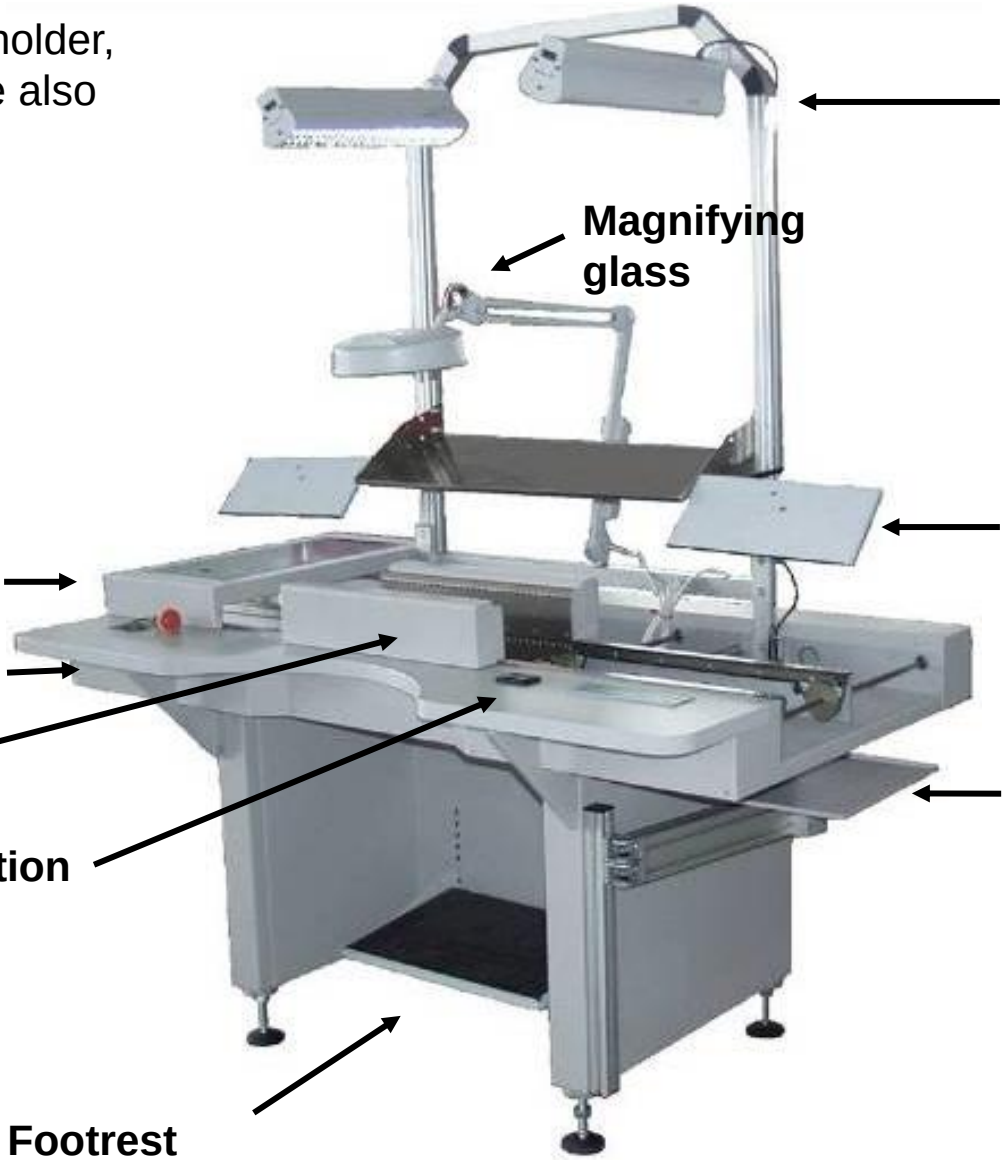

Option: Pin Chain Conveyor

› Pin chain conveyor instead of belt conveyor

› For heavy housings or frames

› For very hot components

› Extended component clearance on bottom (additional option)

