

VEGO Dynamic WS 01



WS 01 Flip station

Functions / Setups

- › Flip 180°
- › Pass through

Additional setups (optionally)

- › Automatically turn (controlled by external signal)
- › LP-withdrawal (Double turn)

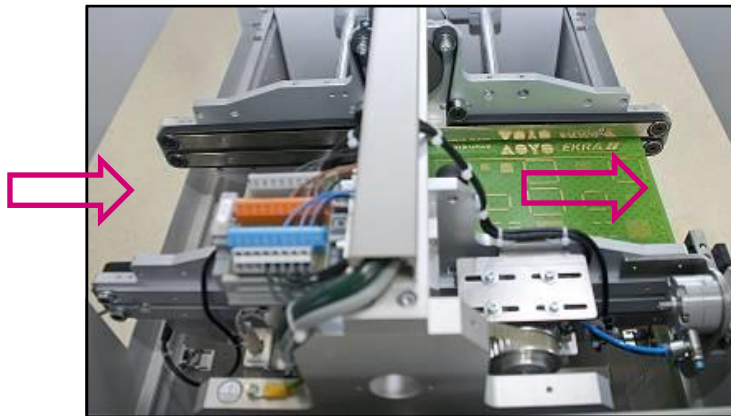


Technical Specification

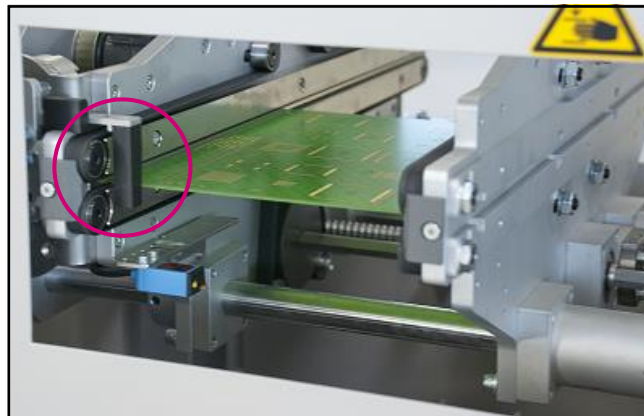
Length	540 mm (400, 600, 700)
Width	1085 mm
Height	1180 mm
PCB Width	50 - 460 mm
PCB Length	70 - 460 mm
Transport height	850 mm +/- 50 mm (950 mm +/- 50 mm optionally available)
Cycle time	+/- 8 Sec. (Flip mode)



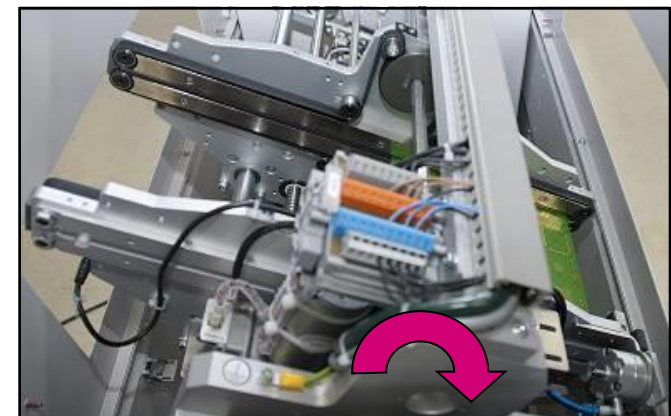
Process 0° - 180°



Takeover the PCB from n-1
Flip axis in base position 0°
(stopper on the right side, closed)



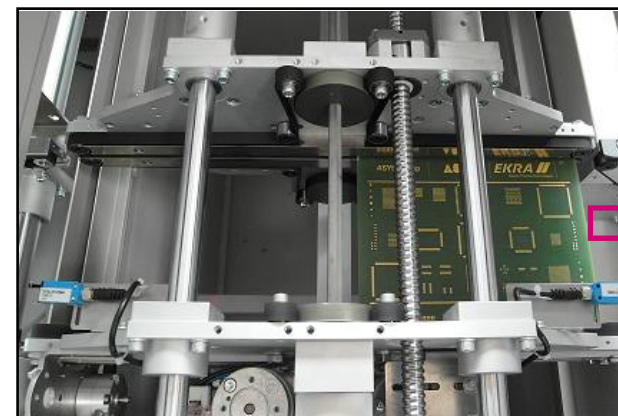
PCB is stopped by sensor and
pneumatical stopper unit



Axis flips 180°

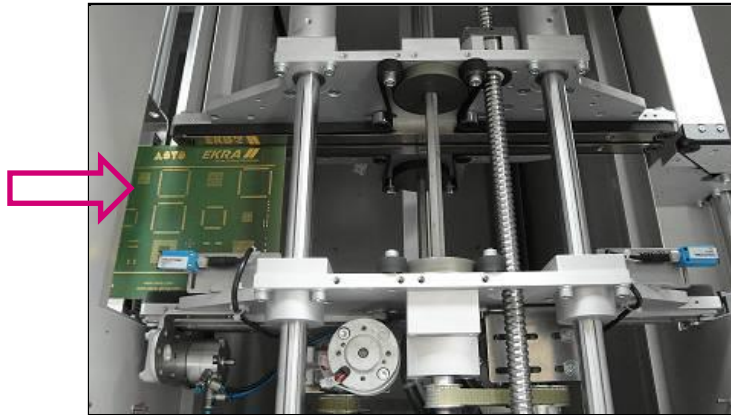


Flip axis in 180° position
(stopper on the left side, closed)

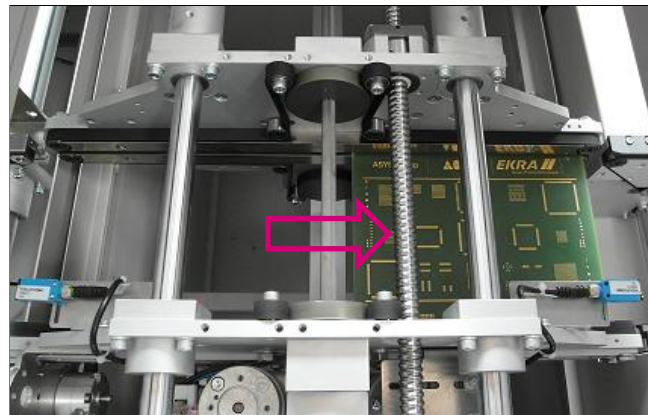


Handover the PCB to n+1

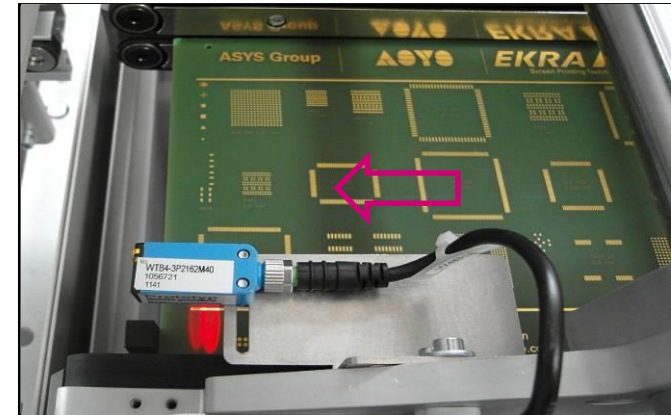
Process 180° - 0°



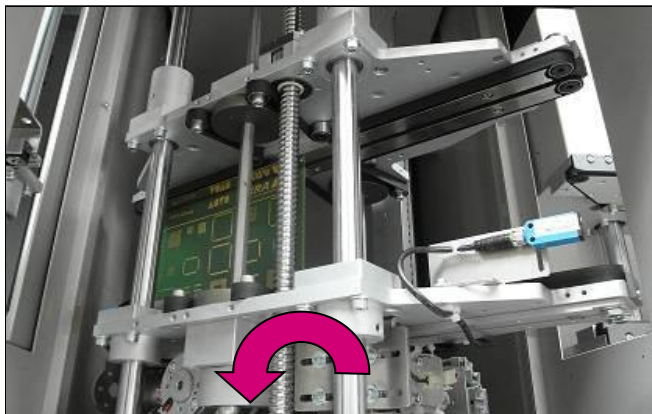
Takeover the PCB from n-1
Flip axis in 180° position
(stopper on the left side, opened)



PCB is transferred to the end of the
conveyor and is stopped by the sensor.



Stopper closes. PCB is moved
backwards against the stopper.



Axis flips 180°



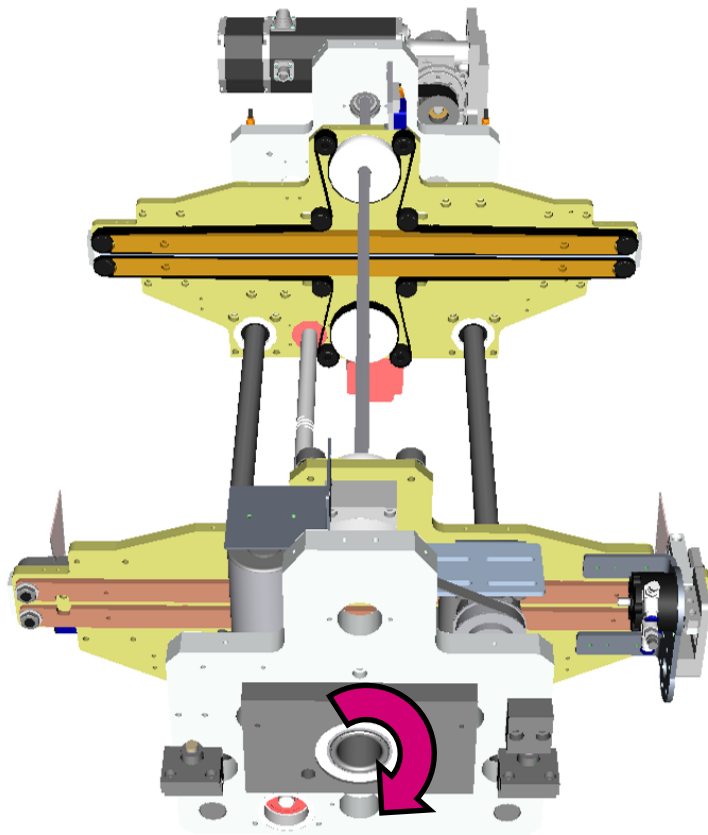
Flip axis in 0° position
(stopper on the right side, closed)



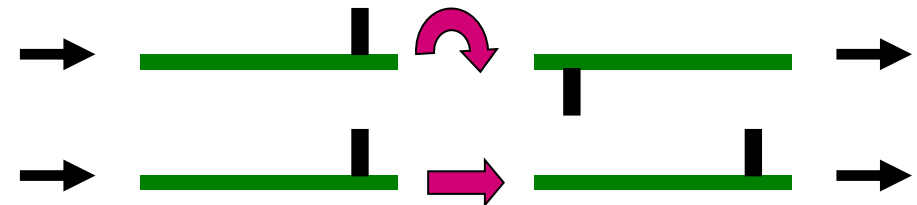
Stopper opens. Handover PCB to n+1

Functionality

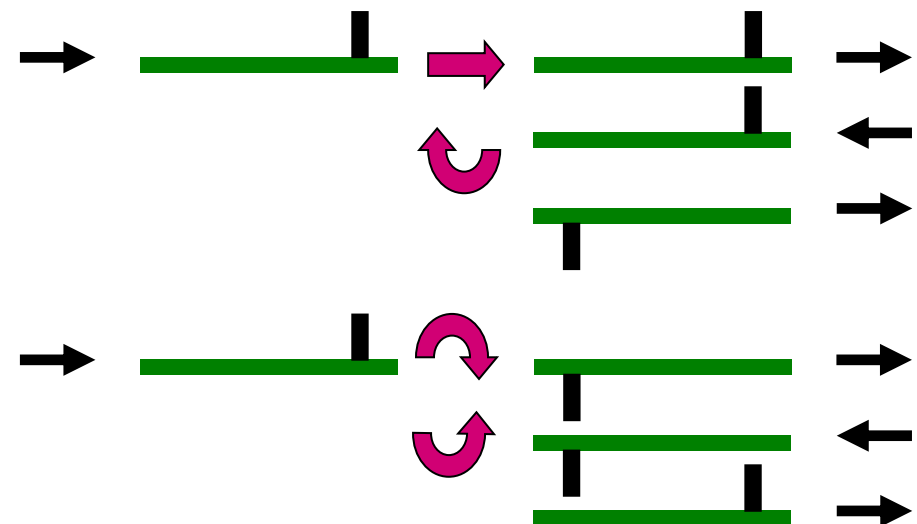
- › Flipping the PCB in transport direction
- › Pass through



Standard functions



Example: Special functions (optionally)



Operation

- › Operator panel type AOPT350 with graphical color display
- › Changing Parameters and setup new recipes during automatic mode
- › Password protected userlevel (configurable)
- › Product memory function



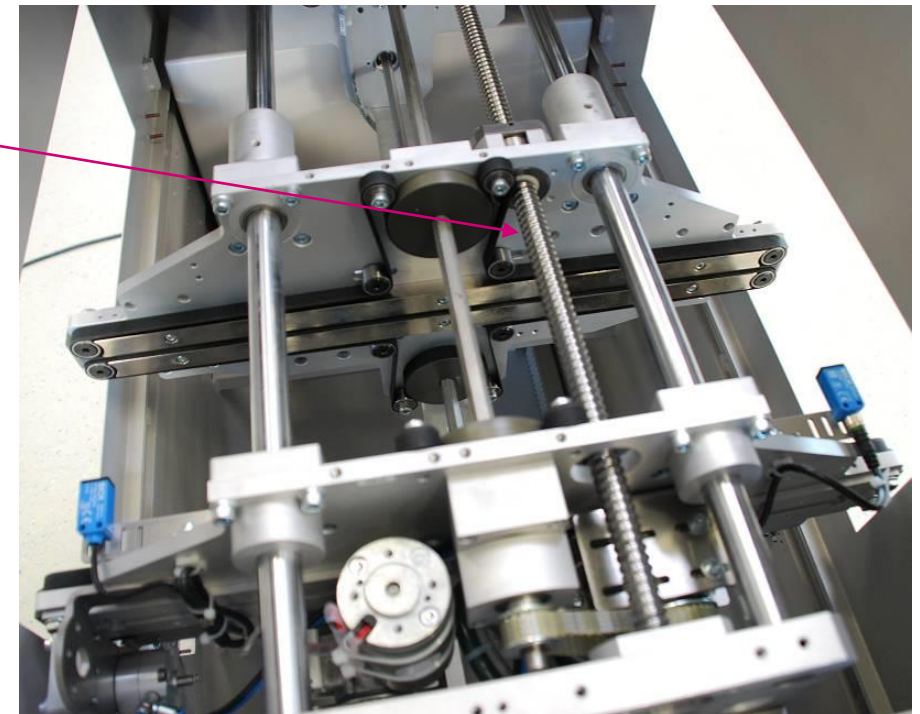
Safety

- › Emergency- stop button
- › Hinged cover with contactless safety switch (Interlock)
- › Optionally: Safety- shutter at the takeover positions
- › Optionally: In- / outlet conveyor with safety cover



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



Mechanic

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



Electric

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



Schaltschrank

Drive

- › Servo drive for the flip movement controlled via CAN-bus system
- › Soft and fast move protects the material and allows shortest cycle time



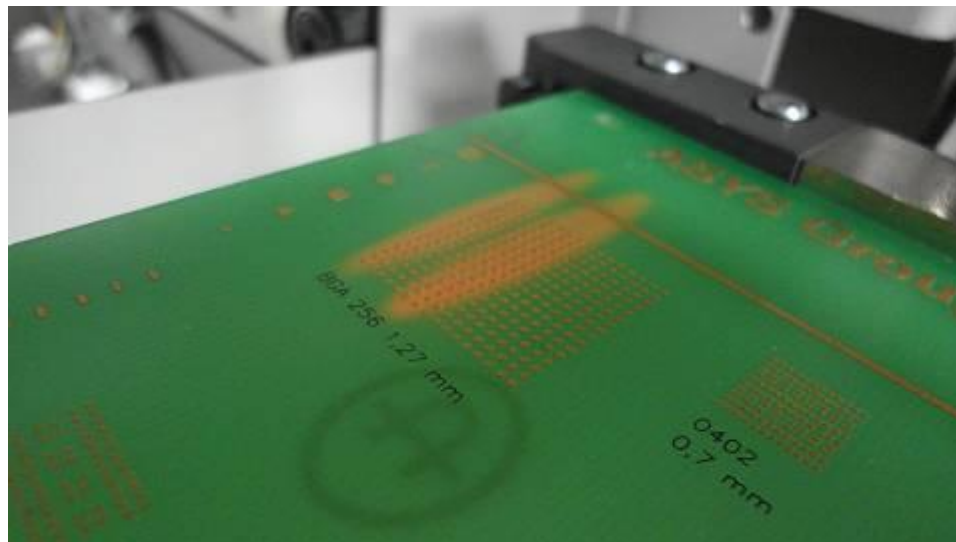
Servomotor for flip axis



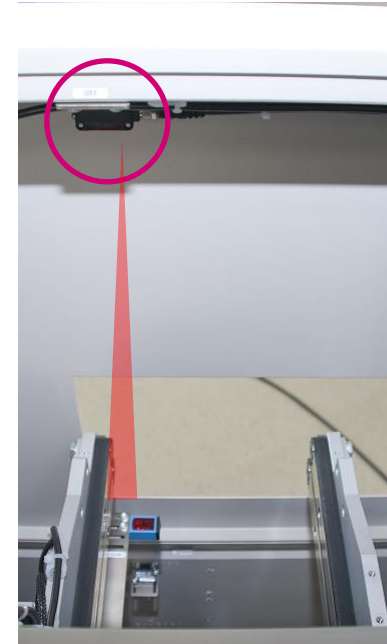
Cable bushing to the flip unit

Sensing

- › High- quality photoelectric proximity switch with „multiline“ light beam for safe detection of PCB's with holes or cutouts
- › Additional sensors for “gap control”



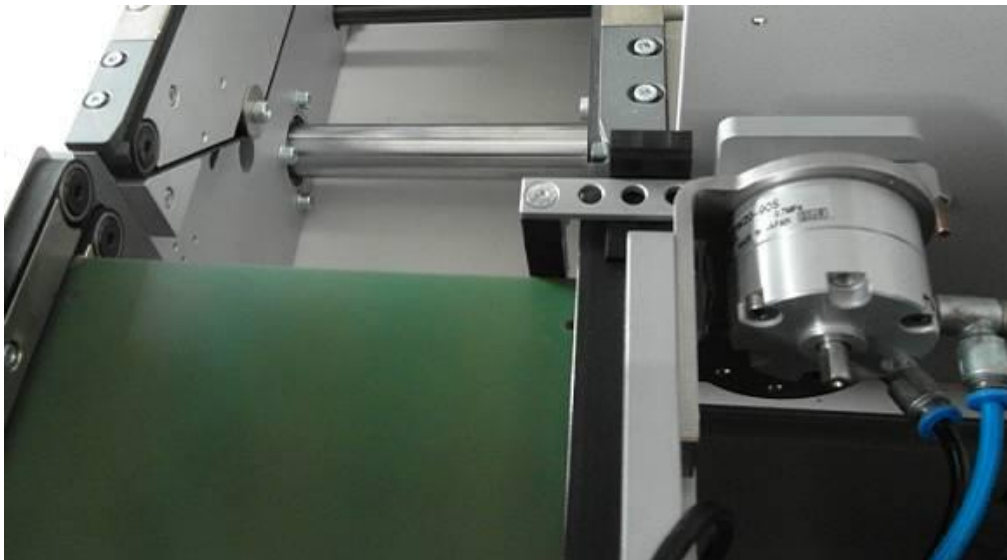
PCB detection



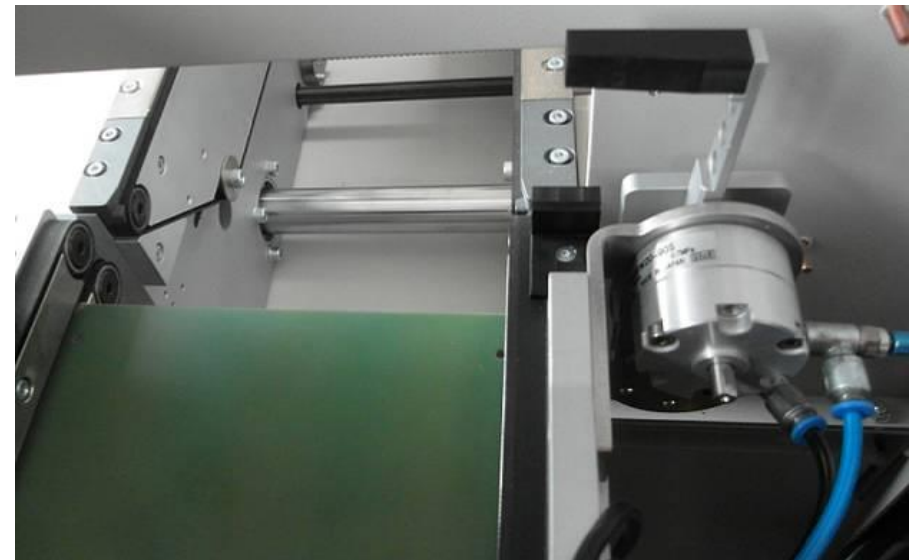
Gap control sensor

Stopper

- › Stopper finger mounted on pneumatical turn cylinder
- › With counter-bearing and additional guiding (for PCB- weight up to 6 kg)
- › Opening angle $>90^\circ$ (adjustable)



Stopper closed



Stopper open

Option: In-/ outlet conveyor

- › Mounting option for additional in-/ outlet conveyor conveyors on both sides of the machine
- › In- / outlet conveyor controlled by main machine

