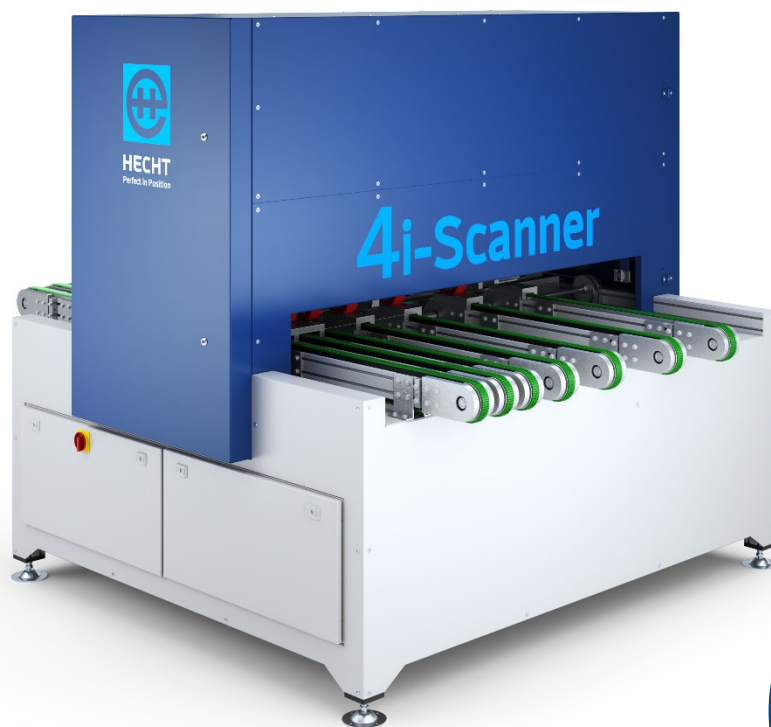




4i-Inline Scanner



NEWS
Error
detection
with AI

Automatic measuring system: **4i-Inline Scanner**

- Optical surface & edge inspection
- Dimensional measurement & borehole inspection
- Increased productivity through fast identification of faulty parts
- 100 % quality control directly in the automated production line



HECHT AG

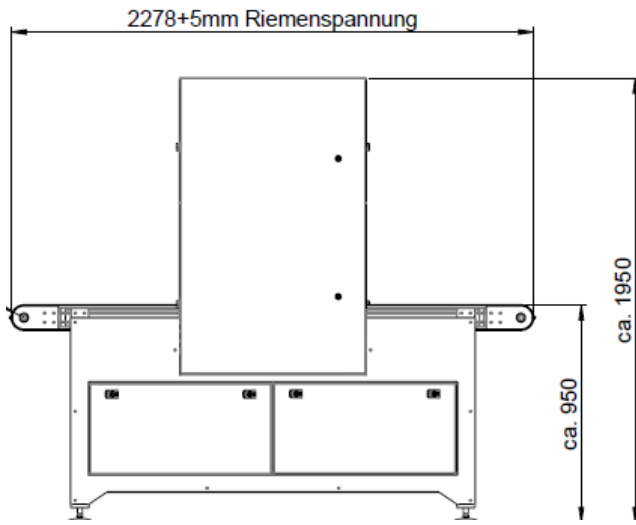
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HECHT 4i-Inline Scanner



Technical sketch:



Side View 4i-Inline Scanner - Short Version - Subject to Technical Changes

Field of application:

- **Incoming goods:**
Quality inspection of delivered parts
- **Panel cutting:** Inspection and measurement to cut raw boards before gluing the edges.
- **Edge banding:** Inspection and measurement of edged panels before drilling machine / CNC router
- **Quality assurance:**
Measurement and control directly in the production line
- **Production:**
 - 100 % control (inline)
 - Process reliability in manufacturing
 - Finding faulty parts in good time
 - Immediate remanufacture of defective parts
 - Process optimisation - reduction of error sources
- **Shipping:**
Quality inspection before delivery

Basic equipment:

- Modular design of the basic machine
- High-precision belt transport (inspection on both sides)
- Exact belt transport (one-sided inspection from above)
- Camera unit with RGB incident light and transmitted light
- Servo motorised height adjustment for camera unit and upper pressure system
- Software: Dimension check (length/width/angularity)
- TeamViewer for remote maintenance and support
- Webcams for monitoring the transport of workpieces infeed and outfeed side

Options & components:

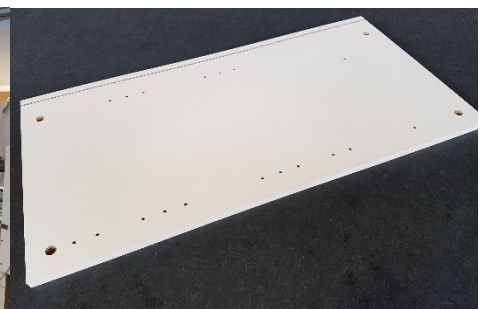
- **Working width:** 1,000 mm or 1,500 mm
- **Machine length:** Short version: approx. 2,300 mm or long version 6,200 mm
- **Mode of operation:** one-sided from top, two-sided
- **Short parts package:** Conveying of short workpieces across the camera gap (for double-sided systems)
- **Software packages:** Surface/edge inspection, AI for defect detection, drill hole inspection, groove measurement, dowel detection
- **Data interfaces:**
Production control systems, database connections and customised data interfaces



100 % quality control in the production line - Inline inspection



Incoming goods inspection of furniture parts supplied (offline)



Surface/edge inspection for plate-shaped workpieces with KI

Technical data:

Operation Control Operating system:	PC control HECHT 4i Scanner software Windows
Working widths:	1,000 mm 1,500 mm
Part dimensions (L x W x D min./max.):	L: 250 mm - 3,200 mm / W: 100 mm - 990 mm (1,490 mm) D: 5 mm - 60 mm (standard)
Resolution:	0.01 mm
Accuracy (tolerance):	+/- 0.3 mm
Feed rate:	up to 60 m/min.