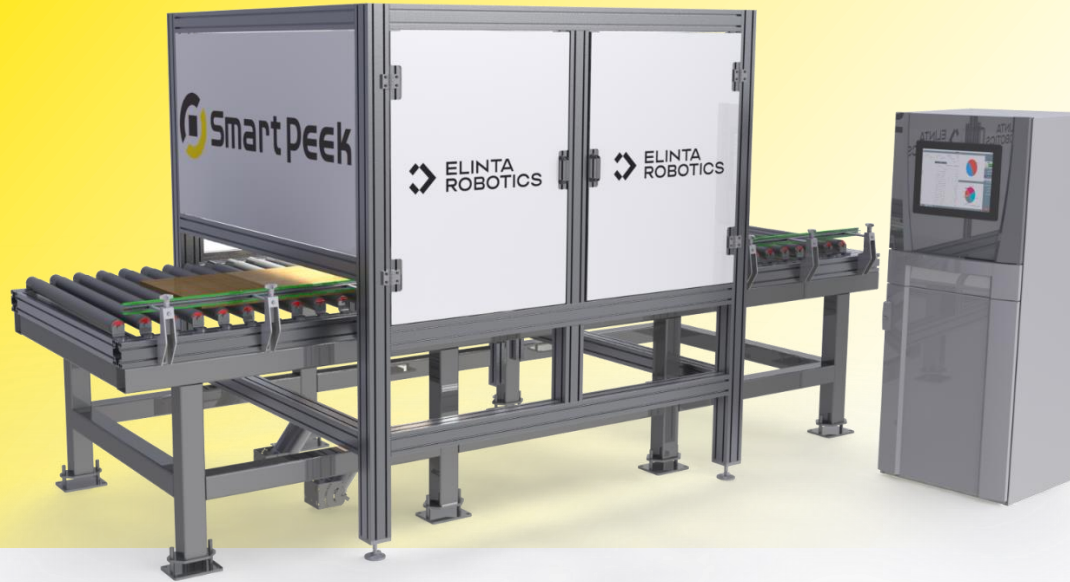# ELINTA ROBOTICS

Our solution to assure quality of manufacturing

Drilled holes and milled grooves analysis guaranteed

SmartPeek is specialized modular quality control system designed for use in the furniture production line. The automatic image processing system guarantees continuous inspection of every furniture surface. Depending on the demands it can vary from the simple system, checking the drilled holes on one side of the board to the extensive system controlling the dimensions and quality of every surface of the board.
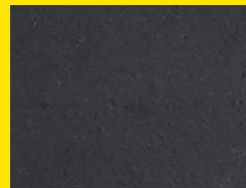
Multilevel interaction cam be achieved between the system and the production line: beginning from stopping the line to prevent the scrap production going up to the defect marking included and robotized defected board sorting. It is possible various level integration with the production management systems – from local defect database to full integration of recipes and transferring defect info into the production line or factory databases.
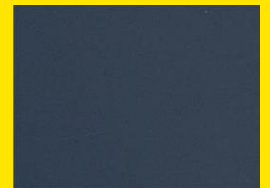
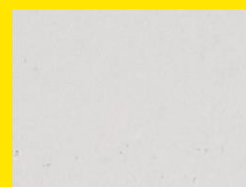Dark brown

Glossy black

Matt black

Blue

Veneer

Varnished veneer

White

* Showed surfaces are tested and working, other surfaces could be integrated after some tests and configurations.

Software capabilities

Intuitive software solutions
- Most used functions can be done by just a few clicks. Thus, all operations can be done fast and easy.

Statistics and results export
- All outputs produced by SmartPeek software can be exported to outer systems. Integration with OEE and other systems is straightforward.

Online system support
- Realtime software usability consultations can be done by integrated chatting mechanism.

Software expandability
- Our software engineers are always working on newer and better solutions to improve already existing software. All updates of the same major version come free of charge.

Effortless results manipulation
- All results can be filtered and sorted by your needs if needed. Allowing to find recurrence of specific irregularities.

Different margin of error zones
- Three different margin of error zones are available, by which found elements can be sorted to good, warning, and bad.
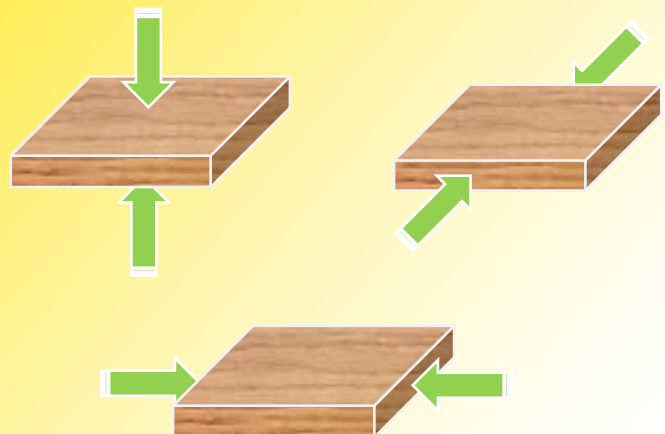
Assembly line manipulation
- Many actions are available by the results of last analysis. Such as stopping an assembly line, stopping after few in a row, items marking by stickers.

Reading of CAD drawings
- Simplified 2D drawings can be imported into the software, skipping the teach-in step. So, all drawings can be uploaded at once and quality check then made autonomous.

Adaptation of the modular system to the customer's needs allows to modify the solution to fit the problem. Configurations could include from only one to all six surfaces.

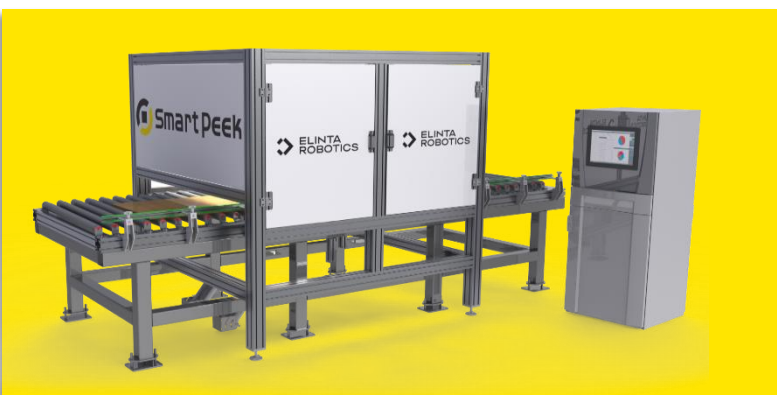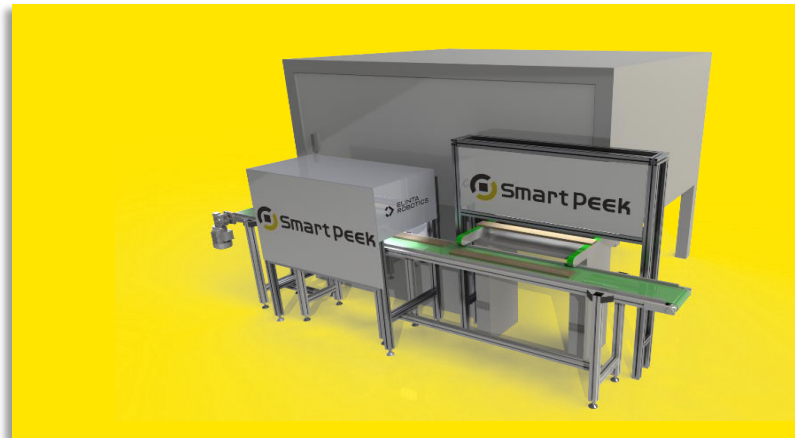| Test objects	Melamine-coated, paper-coated, and lacquered furniture panels
Component length	200-2500 mm
Component widths	50-1500 mm
Component height	5-70 mm
Production speed	0-80 m/min
Supported transport systems	Roller, belt, or band conveyor
Deviation of holes measurements	1-3 mm

Holes and grooves analysis application examples

Drilling machine application #1

Surface	Checked
Top	Yes
Bottom	Yes
Left side	Optional
Right side	Optional
Front end	Optional
Rear end	Optional

Drilling machine application #2

Surface	Checked
Top	Yes
Bottom	Optional
Left side	Optional
Right side	Optional
Front end	Optional
Rear end	Optional

In line application before packing or sorting

Surface	Checked
Top	Yes
Bottom	Yes
Left side	Optional
Right side	Optional
Front end	Optional
Rear end	Optional

Main advantages of SmartPeek system:

- System can be easily adapted practically to any "stand alone" or automatic drilling line (KOCH, RILESA, HOMAG, IMA and etc).
- Flexibility: from single surface inspection to all 6 surfaces inspection in one scanner.
- System footprint easily adaptable to customer's needs.
- Price range: 20.000 € – 150.000 €.

ELINTA ROBOTICS

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