

AUTOMATIC IN-LINE DIMENSION MEASUREMENT

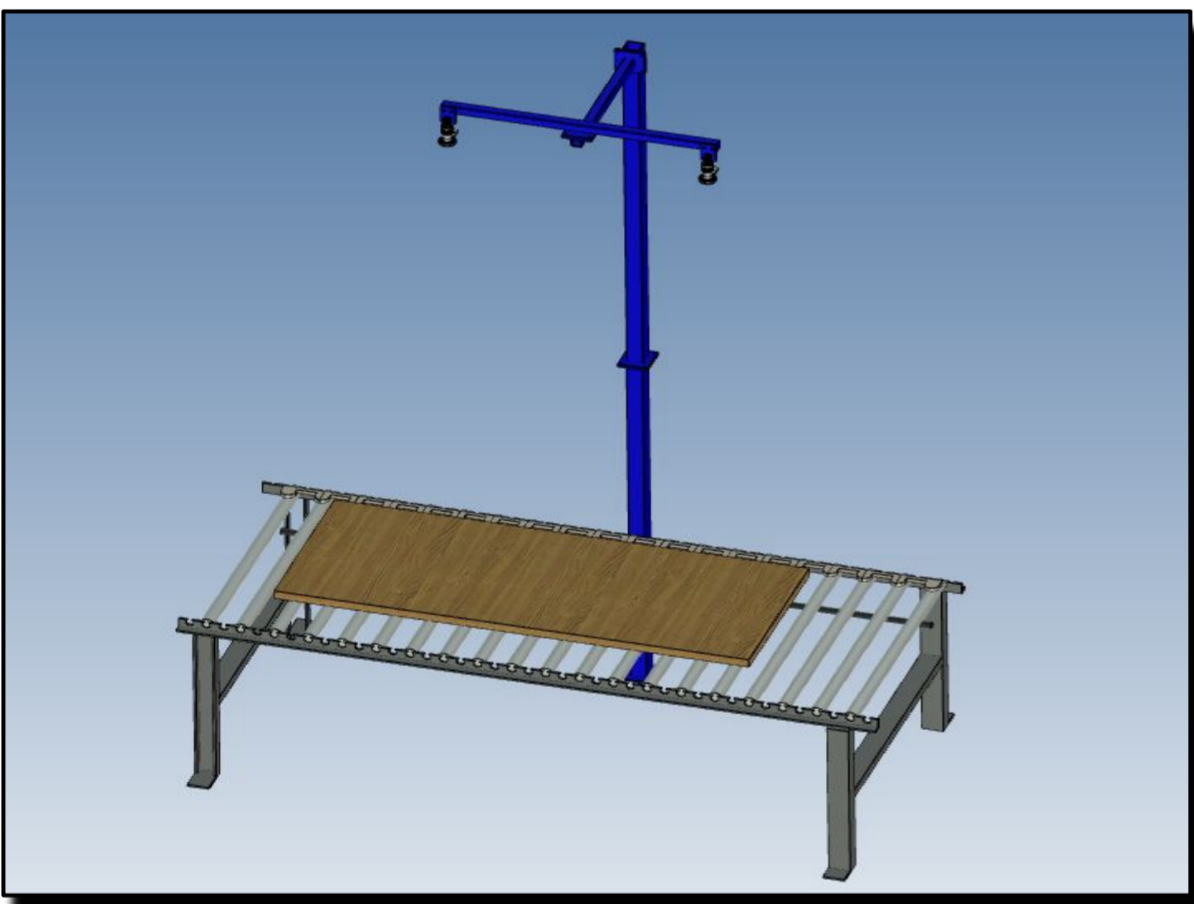
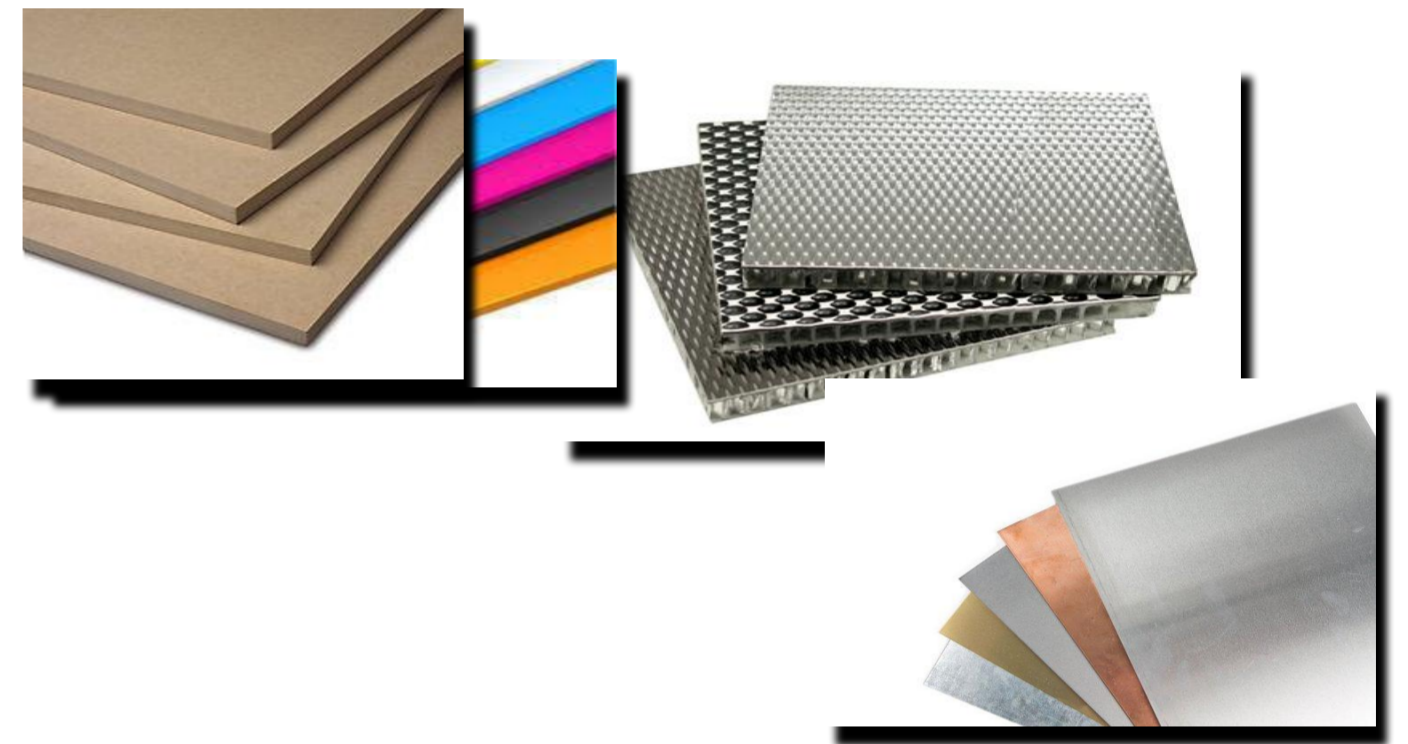
DimensionQI is a new fast and accurate in-line measurement system for all rectangular panels and plates that are transported on a roller conveyor. Easy to integrate in most existing production lines. **DimensionQI** can measure length, width, squareness and straightness.

FEATURES

APPLICATION AREAS

SECURE YOUR QUALITY

Fiber boards, MDF, HDF, OSB, metal plates, sheet bars, paper cardboard, floor, wall and ceiling panels - regardless of material and surface type, **DimensionQI** can measure your products **in-line!**



INSTALLATION

KEEP IT SMOOTH

DimensionQI has a slimmed mechanical construction, which makes it easy to fit into your existing production line. Optonova delivers turnkey systems adapted to your needs.

MEASUREMENTS

DimensionQI measures your products with high precision. For rectangular objects, following properties can be measured:

- ❖ **Dimension** *Width & Length*
- ❖ **Squareness** *Corner angles*
- ❖ **Straightness** *Straight edges*

Thanks to its unique and patented technology, **DimensionQI** enables **robust, reliable** and **contact-free** dimension control of moving objects on roller conveyors. Furthermore, **DimensionQI** does not use any encoder and will not suffer from drifting errors accordingly.

PERFORMANCE

DimensionQI supplies real-time measurements for all of your products at a conveyor speed up to **60 m/min**.

Example performance on 2500 x 1250 mm objects:

MEASURE	ACCURACY	REPEATABILITY
LENGTH	± 0.3 mm	0.1 mm
WIDTH	± 0.2 mm	0.1 mm
SQUARENESS	± 0.3 mrad	0.2 mrad
STRAIGHTNESS	± 0.2 mm	0.2 mm

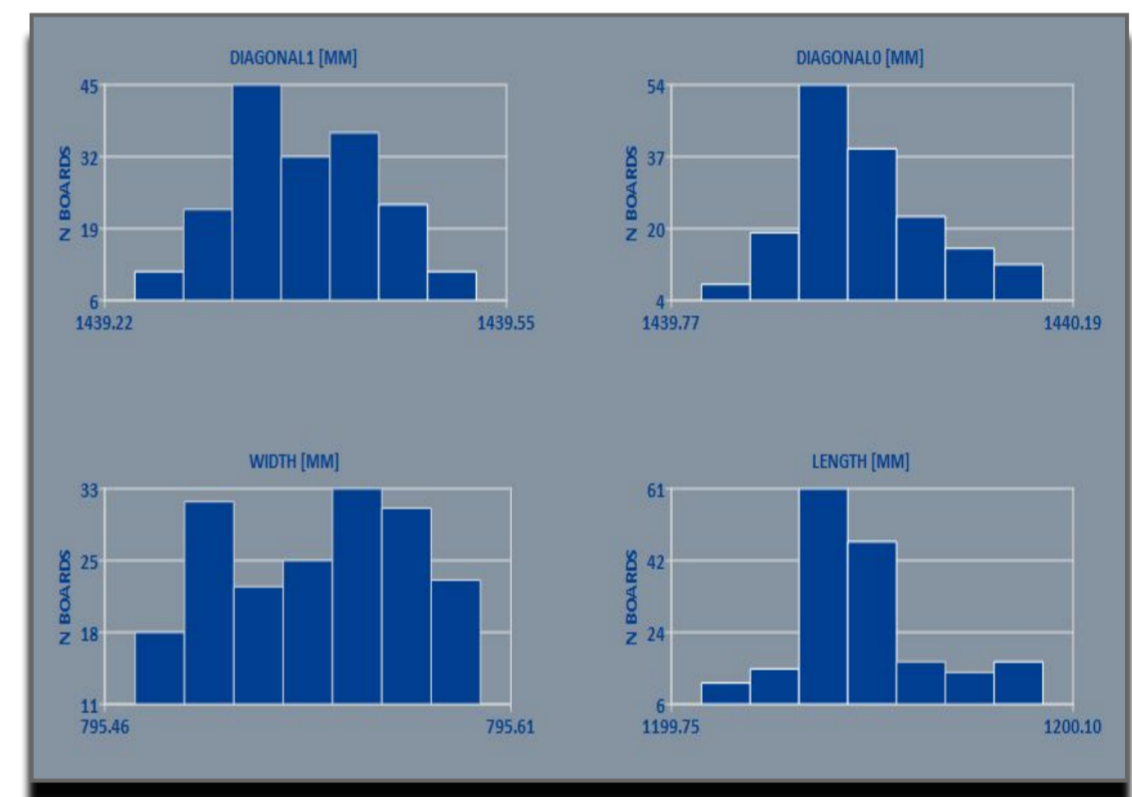
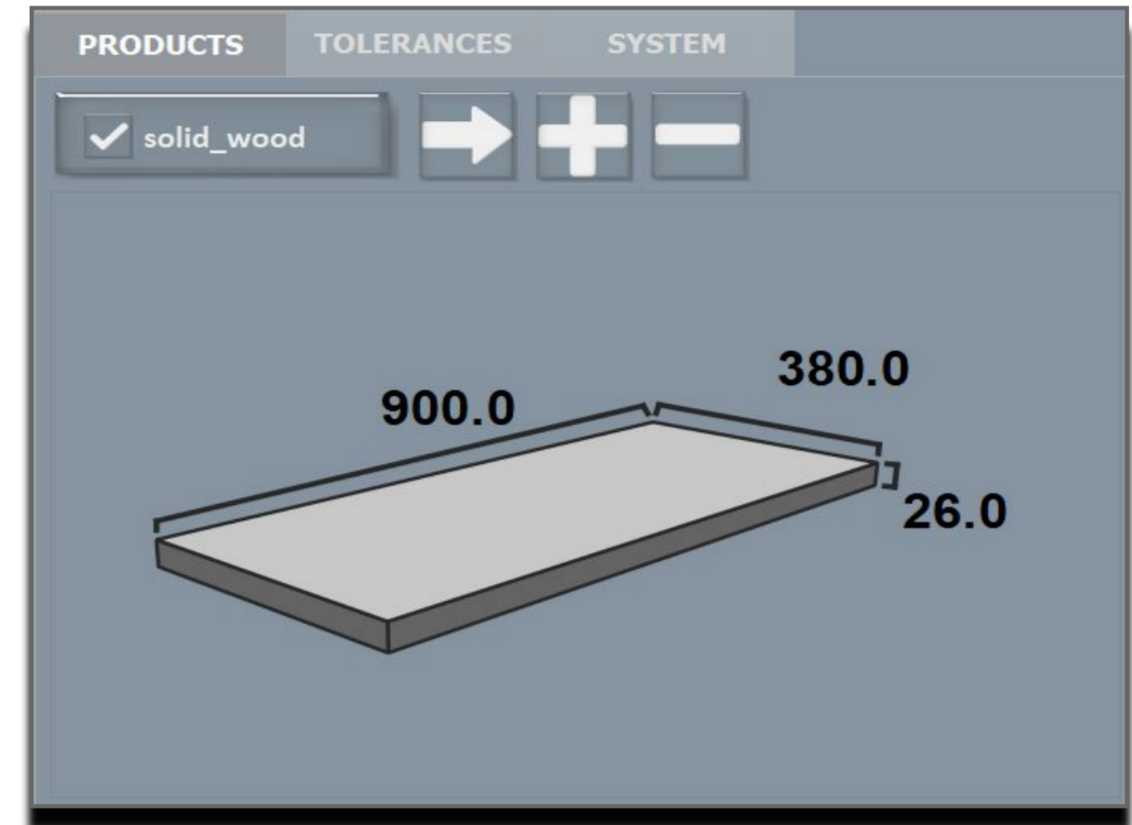
INTERFACES

USER INTERFACE

- Add new products to your application
- Select your product and start monitoring your production
- View hourly/daily trends
- View long term statistics

MACHINE INTERFACE

- Product data (ID, size etc.) from the line
- Output signals
 - Reject
 - Alarm
 - OK



CUSTOMER BENEFITS

- Dimension control of all objects
- Eliminates the need for manual measurements
- Minimizes the amount of scrap
- Save material cost by reducing oversized deliveries
- Reduces customer rejects

- Automatic alarms for systematic errors
- Digitized dimension information
- Data can be used for statistics, generation of measurement protocols to customer
- Efficient tool for optimizing your production process.

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Optonova Quality Inspector products:

SurfaceQI Automatic surface inspection

EdgeQI Automatic edge inspection

HoleQI Automatic hole inspection

DimensionQI Automatic dimension control