

## Our New Products

# ALUTEST-PL

**ALUTEST-PL is a top-of-the-art, revolutionary product for a precise Ultrasonic and Eddy Current examination of Plates – both cast and rolled.**

**ALUTEST-PL is based on the Array and Phased Array technologies and provides a reliable detection of 0,8 mm defects through the whole plate thickness with just little untested zones.**

**Plates to be tested can be made of different metals such as aluminum, titanium, steel etc.**

A set of automatic testing equipment ALUTEST-PL is intended for a fully automatic, very fast, extremely smart, and precise examination of plates (cast and rolled) according to the strictest internationally accepted norms. The main field of application of ALUTEST-PL is the aerospace industry.



- Plate thickness, mm: 5 - 800;
- Internal defects to be detected: FBH 0,8 mm through almost the whole thickness;
- Surface defects to be detected: notch 20 mm long, 0,2 mm in depth;
- Reference test capacity, for plates 8000mm x 3000mm:
  - a)for FBH 0,8 mm - three plates per Hour;
  - b)for FBH 2,0 mm – six plates per Hour;
- Bar drying after the test – no corrosion after the test;
- Physical methods applied: Phased Array and Array Ultrasonic (internal and subsurface) and Array Eddy Current (surface);
- Fully automatic calibration and operation – no space for a negative influence of a “Human Factor”!

The equipment can be applied in two modes:

- "Plate on the floor/on rollers" - the main mode;
- "Plate is immersed" in tank.

Both modes insure the same results, but the first one is more convenient, it may involve much less examination costs, than the second one.

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The test unit is driven by an Industrial Robot. Therefore, the scanning process is precise, fast and very reliable.

Calibration process is fully automatic: according to a special program the robot brings the test unit to the reference blocks area and performs static and dynamic calibration of the flaw detecting sensors and test electronics.



ALUTEST-PL meets a long list of international and local standards. Most important are listed below:

AMS-STD-2154	NADCAP	prEN4050	BSS7055 (Boeing)
AMS 2630	ASTM D857	EN2004-2	BAC 5439-3 (Boeing)
ASTM B594	ASTM E2375 – 08 (2013)	IGC 04.25.116	ABP 6-5232 (Airbus)

The first set of ALUTEST-PL is shipped to one of the biggest world manufacturers of aluminum plates.  
The final customers: Airbus and Boeing.



**ALUTEST-PL**  
is to be your  
**Quality Guard indeed!!!**

Test results are represented according to the advanced Nordinkraft level: the report shows the defects in all three dimensions.

Of course, this equipment can be easily configured for testing of plates made of any other metals: titanium, copper, steel etc.