



RIDER

Ultrasonic & eddy current examination of clabs and plates.
A mobile solution.





NORDINKRAFT AG has developed a very effective (both economically and technically) solution for fast and reliable examination of plates and slabs made of different materials.

The name of the solution is RIDER®.

RIDER® is a set of sophisticated, PC-based, and flexible quality testing equipment.

It can examine quality of plates and slabs by means of ultrasonic waves (UT-test) and/or Eddy Current (EC-test) according to any modern norms and standards.



RIDER®. The best instrument to test quality of plates or slabs on an operative and smart way.

It can examine quality of plates and slabs by means of ultrasonic waves (UT-array probes) or Eddy Current (EC; test with array of EC elements integrated in one probe) according to any modern norms and standards.

What can RIDER® do?

The RIDER® can solve the following industrial tasks.

- RIDER® can detect small cracks in the surface and under the surface. The reference depth of a crack to be detected starts from **0,2 mm**.
- RIDER® can detect laminations. The reference size of lamination starts from 0,8 mm for aluminum plates and **1,2 mm** for steel plates.
- RIDER® can detect zones of mechanical properties uniformity.
- RIDER® can collect all the information in the computer on board and transmit the information to the level 2 computer by WiFi.
- RIDER® can communicate with operator by means of a very friendly interface, and correct his mistakes.
- RIDER® can move along the plate and across of the plate. A special smart mechanics allows very easy scanning.
- RIDER® can be Your Quality Guard.

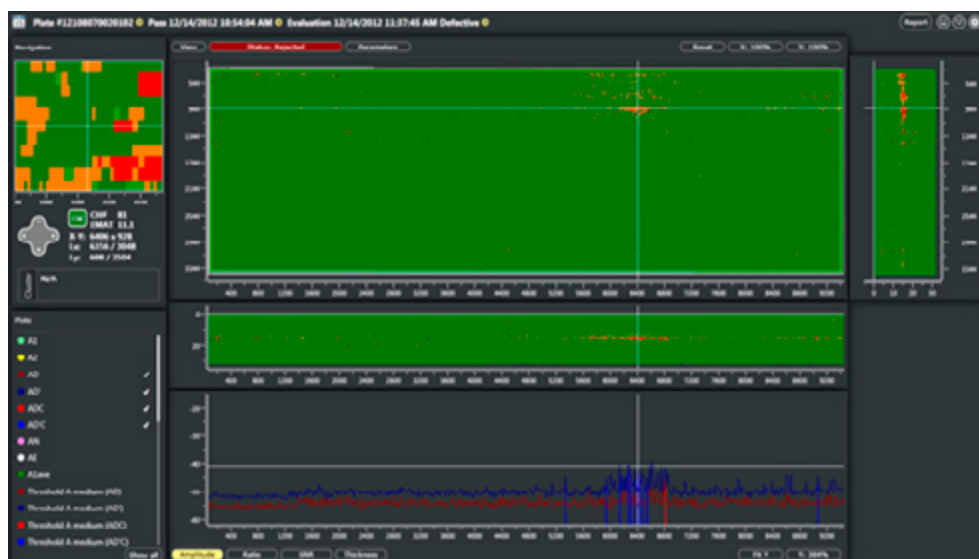
RIDER® is controlled by operator; however, because of its sophisticated design, the test results do not depend on operator at all! The intelligent system controls the scanning process and makes the decision “Good” or “Bad” automatically.



RIDER® can be connected to several types of multichannel probes.

- Non-contact EMAT array probe for detection of laminations.
- UT-probe with Array of piezo-crystals to detect laminations and zones with poor mechanical properties.
- Non-contact EMAT probe transmitting/receiving Rayleigh acoustic waves to detect cracks (surface & sub-surface).
- Eddy Current array probe to detect cracks and zones with poor mechanical properties.
- UT phase array probe to detect cracks in both surfaces.

Contact us. We will recommend you the best set of probes, sufficient for solving very your specific task.



Example of the UT test report displayed by RIDER®. Position of defects can be shown in three projections.

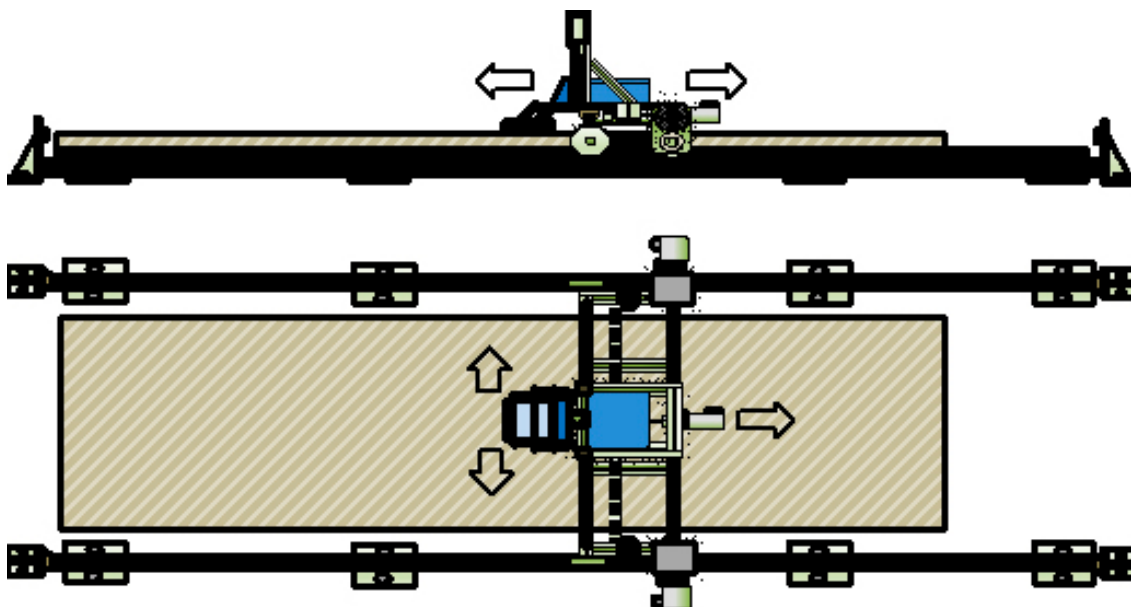


RIDER® at one of the biggest plates producers in the world.

Modifications of RIDER®

Modification No 1.

RIDER® can be placed onto the rails and still be driven by operator. In this case the price of the system looks steel reasonable, but the scanning process is easier, and the capacity of the test station with RIDER® can be substantially increased.

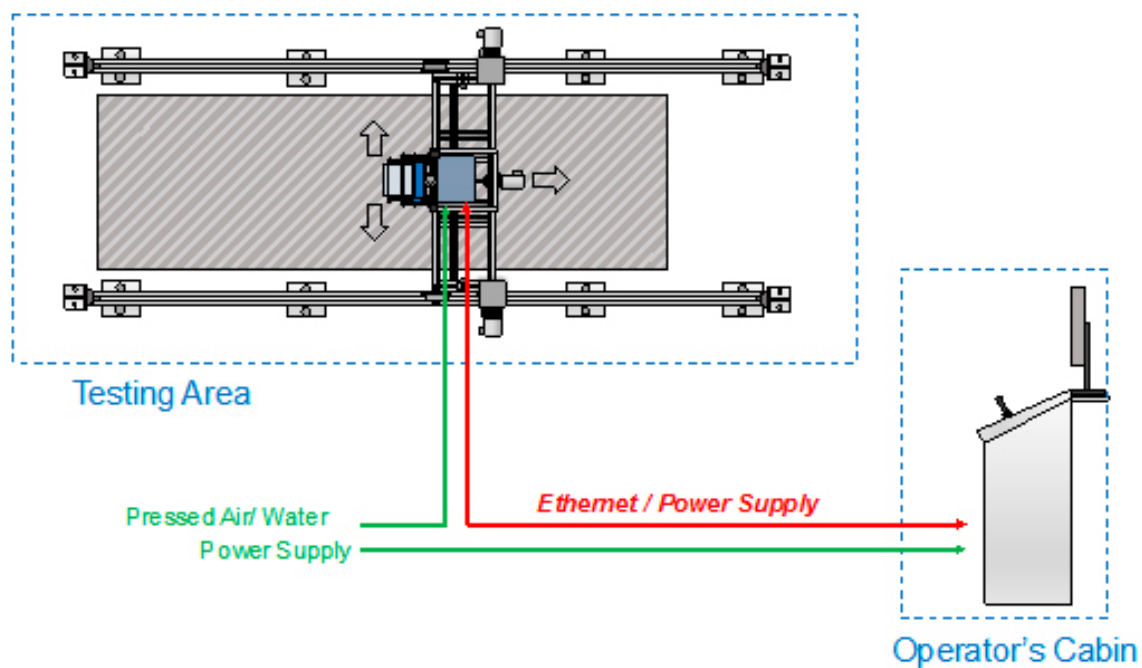


RIDER® can be put onto the rails. It is still driven by operator, but It will allow achieving much higher capacity.



Modification No 2.

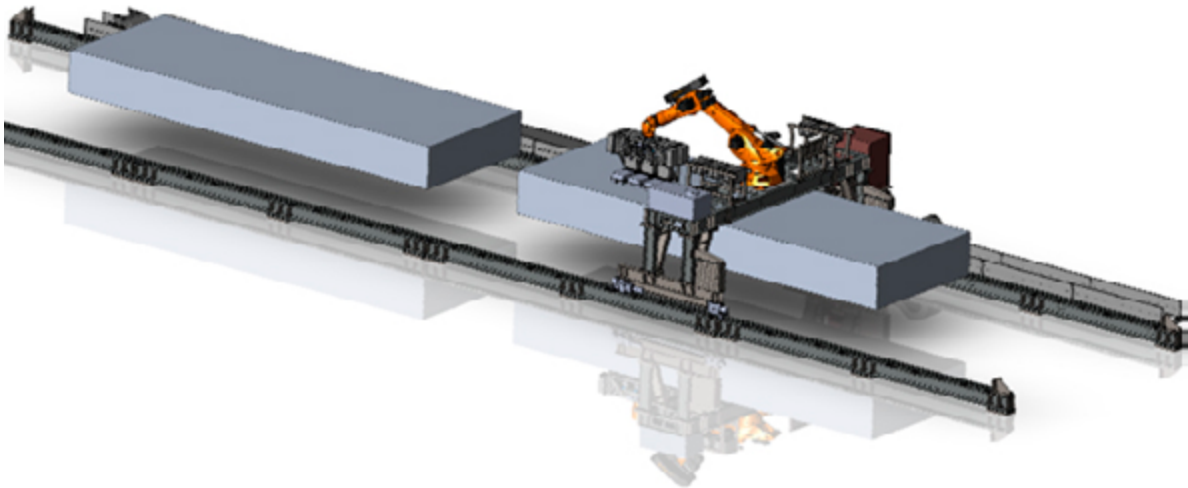
The idea of the next modification of RIDER is given in the diagram below.



RIDER® on rails. The operator controls the test unit remotely, from the cabin. This configuration will allow achieving even more capacity compare to the Modification No1.

Modification No 3.

RIDER® can be modified into the fully automatic system as below. In this case the whole scanning process, calibration, can be automatic.



Fully automatic configuration of RIDER.

We are always available to discuss your RIDER with you!



Plate testing equipment EMATEST-PL / EMASCAN-PL

Pipe testing equipment EMATEST-PI

Bar & billet testing equipment EMATEST-BB

EMATEST – BB Wire

Tube testing equipment EMATEST-TU

Portable EMAT thickness gauge NKD-019E Ultrasonic

Alutest-PL

Alutest-BB

EMATEST-WSP

EMATEST-WT

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