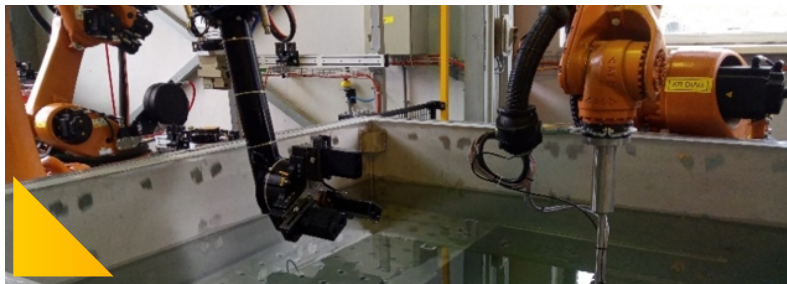


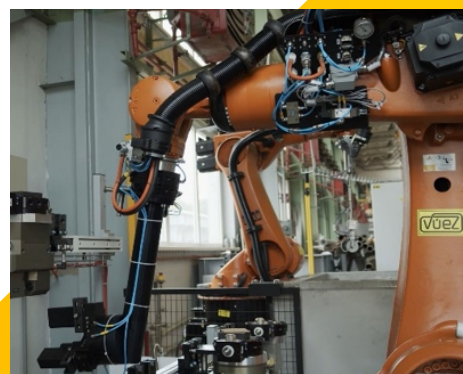
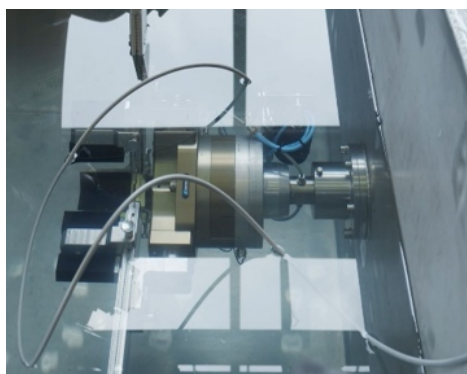
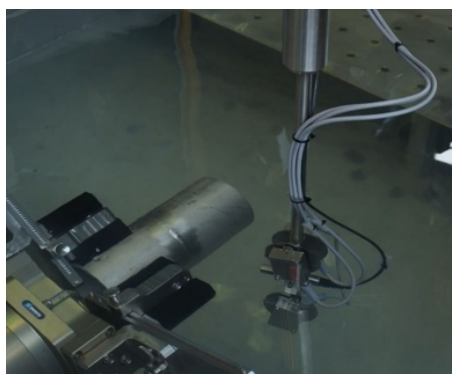
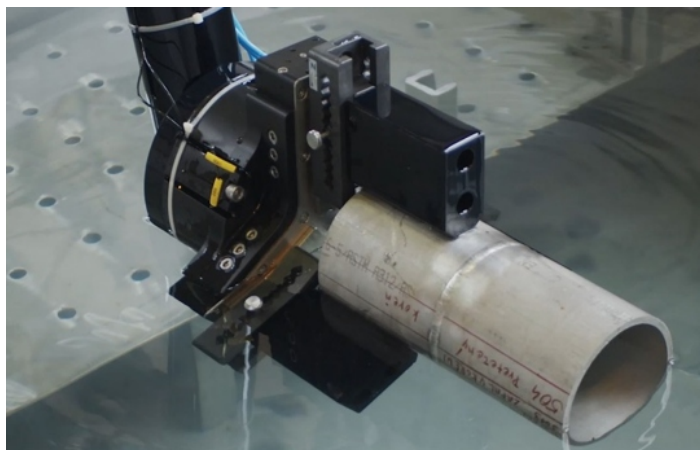
System inteligentnej robotickej ultrazvukovej diagnostiky (IDIAG)



Pracovisko robotickej ultrazvukovej diagnostiky vybavené robotickým manipulátorom umožňuje robotické vkladanie dielcov do diagnostickej vane, ako aj ich držanie počas vykonávania robotickej diagnostiky. Súčasťou pracoviska IDIAG sú:



- robotický manipulátor na polohovanie ultrazvukovej sondy,
- systém polohovania na riadenie polohy efektora ponoreného do kvapaliny,
- robotický manipulátor na polohovanie diagnostikovaného dielca,
- polohovanie diagnostikovaného dielca uchopeného v externej osi robota,
- vizualizačný softvér na zobrazovanie nameraných údajov v 3D pohľade,
- vodné hospodárstvo na udržiavanie požadovanej výšky hladiny a teploty kvapaliny.



V pracovisku IDIAG je možné roboticky vykonávať nedeštruktívne testovanie výrobkov rôznych tvarov a rozmerov ultrazvukovou metódou.

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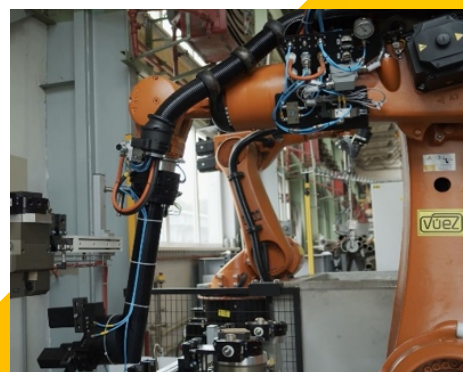
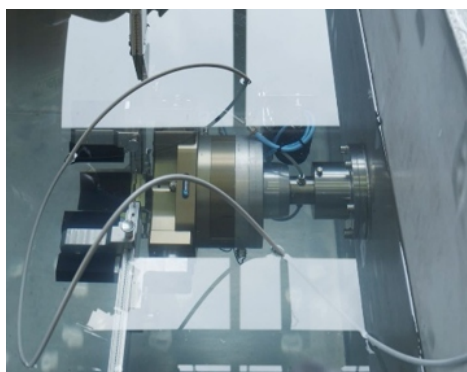
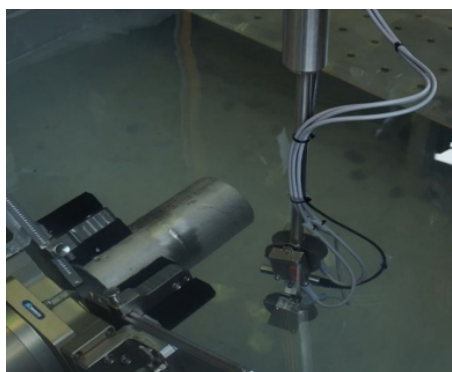
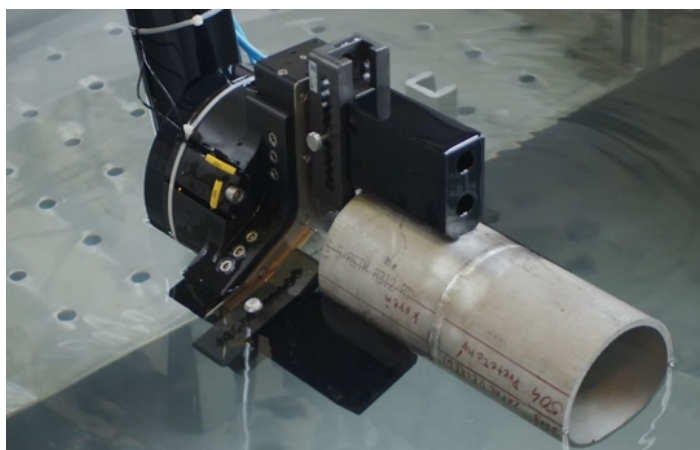
System of Intelligent Robotic Ultrasonic Diagnostics (IDIAG)



The workplace of robotic ultrasonic diagnostics provided with a robotic manipulator enables robotic placement of workpieces into a diagnostic tank as well as their holding in the course of the robotic diagnostics proper. The IDIAG workplace includes:



- robotic manipulator for positioning of the ultrasonic probe,
- ultrasonic measurement system,
- system controlling position of the effector submerged in the liquid medium,
- robotic manipulator for positioning of the diagnosed workpiece,
- rotary mechanism for positioning of the diagnosed workpiece gripped in external axis of the robot,
- visualisation software displaying the measured data in 3D view,
- water management system maintaining the required level height and temperature of the liquid medium.



The IDIAG workplace enables to robotically execute non-destructive tests of products of different shapes and dimensions using the ultrasonic method.

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