NDEN

Industrial Equipment Repair-Reuse-Recycle Suite

Extend your machine's life



Industrial Equipment Repair-Recycle-Reuse Suite

DESCRIPTION

Extend your machine's lifecycle and upgrade your industrial equipment. Specifically for maintenance and production managers, this suite optimises machine parameters and resource usage.

Control your equipment, extend its operational life and reduce new purchases. Our AI-based solution supports data-driven decision-making and foster a circular production model, focusing on repairing, reusing, and recycling industrial equipment.

This approach not only maximizes productivity and the residual value of materials but also emphasizes recycling over downcycling, aligning with sustainable and efficient manufacturing practices.

These features create a powerful tools for equipment manufacturers looking to enhance equipment longevity, optimize resource usage, and support environmentally responsible production methods.



MAIN BENEFITS

- Extends the machine's lifecycle
- Reduces machine component waste
- Shortens machine recycle time and cost
- Reduces machinery maintenance times
- Ensures responsible end-of-life for machines



The AIDEAS project has received funding from the European Union's Horizon Europe programme under grant agreement No 101057294.

SOLUTIONS INCLUDED

AIDEAS Prescriptive Maintenance (AIPM): Predict your machine's remaining useful life and identify maintenance requirements with the target of extending the overall machine lifecycle.

AIDEAS Smart Retrofitter (AISR): The retrofitting tool to give old machines a second life, enabling the monitoring and analysis of key operating parameters.

AIDEAS LCC/LCA/S-LCA (AILC): Identify the best machine end-of-life by devising a multi-objective optimisation strategy.

AIDEAS Disassembler (AIDIS): Streamline your recycling processes and enable object recognition and identification with cameras and sensors, allowing for enhanced disassembly and material circulation.

USE CASE

PAMA, a boring-milling machines and machining centres manufacturer, is interested in becoming a circular-enabled manufacturer. Using the AIDEAS Industrial Equipment Repair-Reuse-Recycle Suite, PAMA will be able to increase machine performance by 15% and machine useful life by 20%.



Moreover, this suite will enable them to assess the machine's past performance, pinpoint parts with a second life in other machines, and even predict future costs and maintenance needs. This will lead to lower **energy consumption** and **increased productivity**.

LEADING DEVELOPERS









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Let your machine live longer

