SIEMENS energy

Additive Manufacturing Onsite Repair

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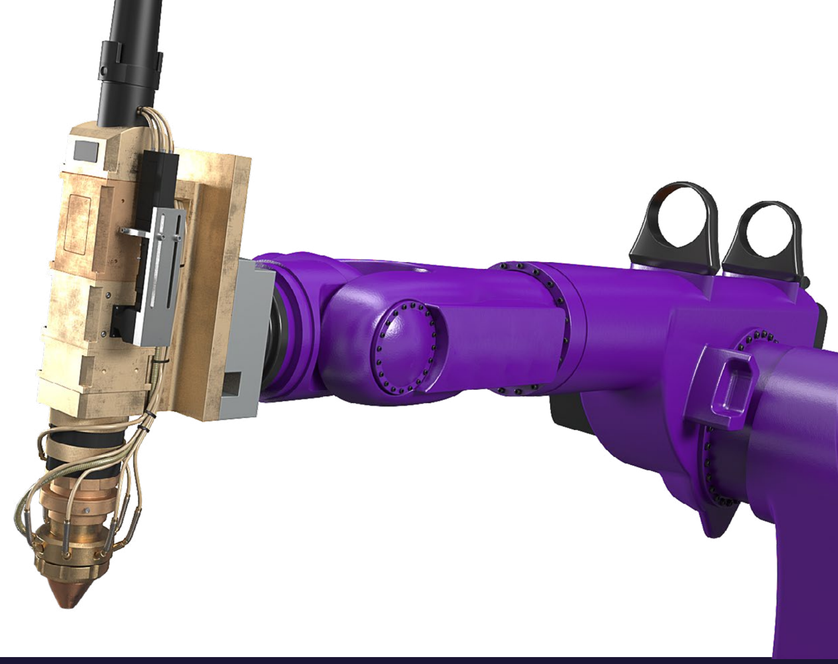


Contact us: **addmore@siemens-energy.com**

Brings the world’s most advanced manufacturing technology for repair to your plant

Operational disruptions and downtimes are associated with high costs and difficulties for plant operators. Fast, reliable, and straight-forward service is crucial for getting plants back into operation as quickly as possible. But spare parts availability might be critical and transporting a valuable component to a workshop can be expensive and a time-consuming logistical operation.

Our Additive Manufacturing Onsite Repair solution is designed to restore your critical components – or even improve their performance – onsite using the advanced additive manufacturing technology.



Mobile solution

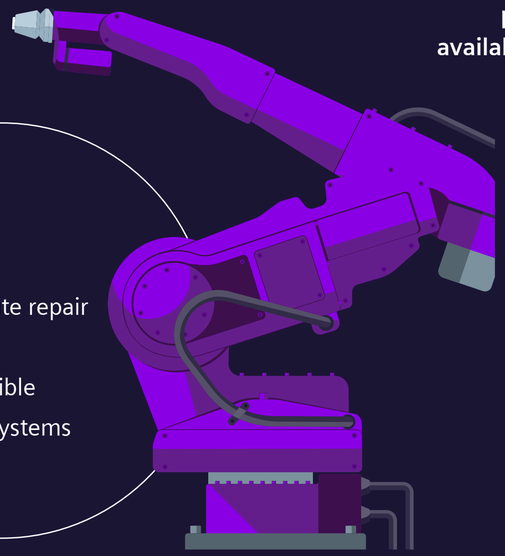


Everything onsite at plant

- Engineering approved onsite repair solution
- Additive manufacturing specialists
- Robotic supported laser cladding or Wire Arc Additive Manufacturing technologies (WAAM)
- Pre- and final machining and Non-destructive Testing (NDT)
- Zero harm safety concept

Key intended benefits

- Highly precise and contour fitting onsite repair
- Restoration of the original condition
- Surface component optimization possible
- Optimized accuracy by using robotic systems
- Minimum impact to the critical path



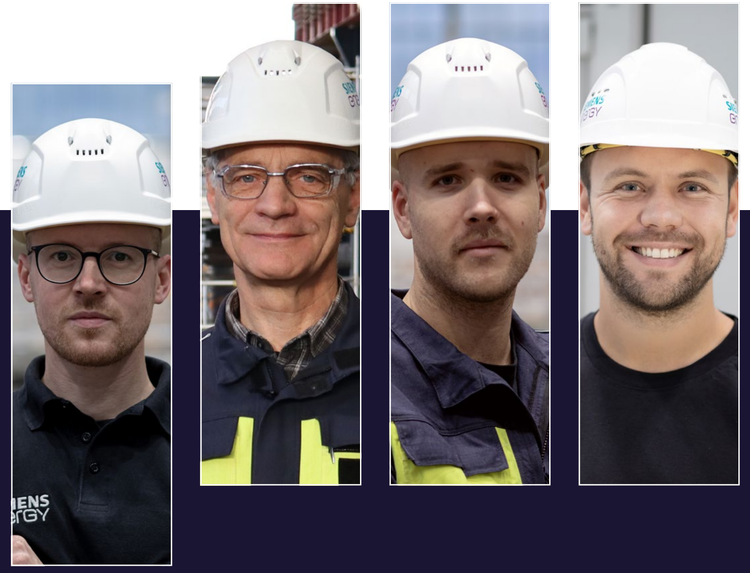
- Higher plant availability
- Improved plant reliability
- Optimized outage costs
- Sustainable and resource-saving

The minds behind the solution

To best meet our customers' service requirements, we bring together our top specialists from different disciplines. With Additive Manufacturing Onsite Repair, we've created a new service offering that is designed to provide an optimal solution for fast and efficient component refurbishment. We've achieved this by combining our Engineering, Non-destructive Testing, On-Site Machining and Welding specialization.



Meet the minds behind the solution:



- The Engineer
- The Non-destructive Testing Engineer
- The On-Site Machining Engineer
- The Welding Engineer

The Engineer

„Our technological edge starts where we leave standard solutions behind. This was the impetus for us to develop our innovative Additive Manufacturing Onsite Repair solution. And this is how we continue to meet ever higher requirements for precision and quality.“

Felix Vogt, Head of Technology Implementation



Creativity meets experience

To develop the Additive Manufacturing Onsite Repair solution, we combined the creativity of our engineers with our extensive onsite service expertise and in-depth knowledge of Additive Manufacturing.

Application example 1:

Onsite Journal Repair

Onsite Journal Repair helps enable the rectification of scoring marks or damages without a journal exchange. The repair is intended to restore the original journal diameters to promote optimal operation. For a successful repair, it's crucial to precisely meet the tolerances for diameters, all other geometric dimensions and all welding requirements for surface and material quality. Structural properties, such as hardness, are retained. The Additive Manufacturing Onsite Repair technology is tailored to meet these demands and can help save the customer both time and money.

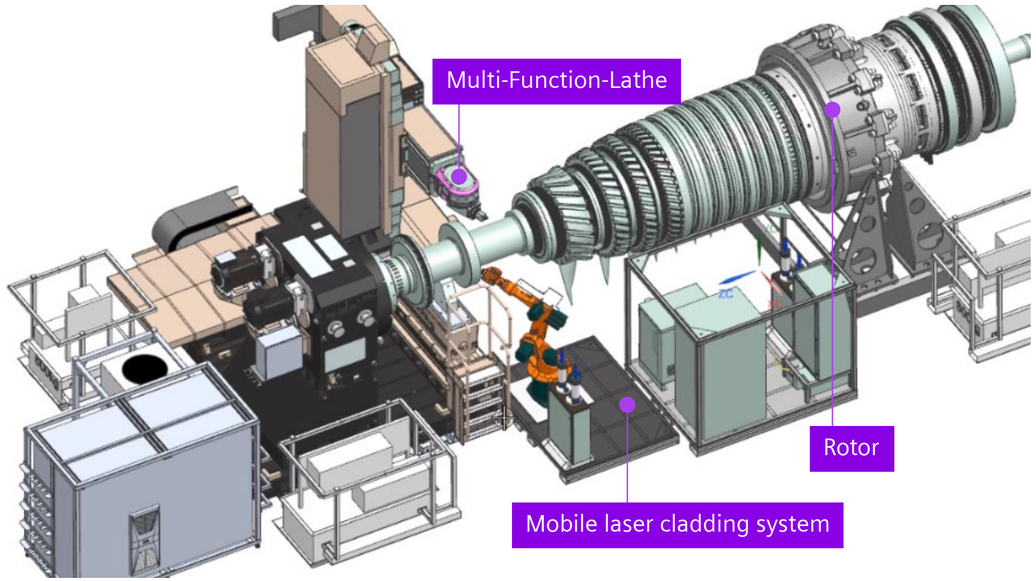


Onsite Journal Repair

Onsite Component Repair

Onsite Rotor Refurbishment

Overview | Procedure | Benefits



Restoring the original state in five steps:

1. Fact finding and evaluation / determination
2. Pre-machining of affected rotor area by turning
3. Laser Cladding Process
4. Final machining to the original diameter
5. Non-destructive Testing (NDT)





The perfect complement

A broad service portfolio for all requirements

The service needs of our customers are just as varied as the plants themselves. Additive Manufacturing Onsite Repair complements our existing service portfolios, with which we offer closely interlinked service solutions for all requirements.

Our goal is to provide the best possible, most efficient and uncomplicated service to our customers worldwide in order to constantly reduce limitations such as downtime or other inconveniences to an absolute minimum.

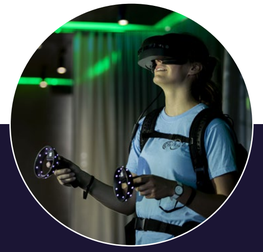




Field Service



ROTEX



TECC



Onsite Repair Solutions –
State-of-the-art service technologies onsite at your plant

Our wide range of mobile service solutions includes maintenance, repairs, replacements, refurbishments and upgrades of components, as well as technical education training for every need. Our mobile equipment makes us highly flexible and quickly available anytime and anywhere.

Visit website:

www.siemens-energy.com/onsite

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For more information, please visit our website:
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