

# Robotic SPM technology

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ENCO's pioneering approach to robotic SPM technology demonstrates the power of innovation in overcoming traditional manufacturing limitations.

This case study highlights how a custom-built robotic solution can not only reduce costs but also enhance production flexibility and quality control. This innovative approach positions ENCO for continued success in the competitive automotive parts manufacturing landscape.



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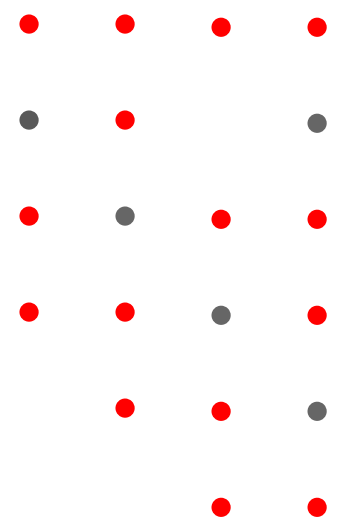
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CASE STUDY | 2024

**Challenge:** Traditionally, the automotive parts manufacturing industry relies on transfer stamping, a complex and expensive process. For ENCO, a leading manufacturer, the high cost associated with transfer stamping presented a significant obstacle. This resulted in:

**Limited Use of Transfer Stamping:** The high upfront cost prevented the company from fully utilizing the benefits of transfer stamping for all applications.

**Inconsistent Quality with Volume Variation:** Traditional stamping methods were less adaptable to handle fluctuations in production volume, potentially impacting product quality.



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**Solution:**

ENCO embraced innovation by developing a cost-effective alternative. The company's engineers designed and built a unique solution:

**Robotic SPM Technology:** This involved creating a 6-axis double bar transfer robot, a custom-designed Special Purpose Machine (SPM) using robotic technology.

**Tandem Press Conversion:** By utilizing the robotic SPM, the company successfully converted a traditional tandem press into a transfer press, achieving the desired functionality at a fraction of the cost.

**Results:**

The implementation of the robotic SPM technology has yielded remarkable benefits, including:

**Faster Development:** Compared to traditional transfer stamping systems, the robotic SPM offered a significantly quicker development timeline.

**Reduced Costs:** The in-house development of the robotic SPM resulted in substantial cost savings, exceeding ₹3 Crore compared to traditional transfer stamping solutions.

**Improved Quality with Volume Flexibility:** The robotic SPM's adaptability allows for consistent product quality even with varying production volumes.



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