FACTORY AUTOMATION
Automated Guided Vehicle
## CASE STUDY

### Design of Automated Guided Vehicle

<table>
<thead>
<tr>
<th>Challenge</th>
<th>Scope</th>
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<tr>
<td>• To design &amp; develop an AGV which best suits to flexible &amp; scalable business needs.</td>
<td>• To design and develop a compact and powerful AGV which moves front &amp; back, turn &amp; pivot and pulls around 150kgs.</td>
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<td>• To deliver the final prototype in a short timeline of 5 months.</td>
<td>• Docking &amp; locking of trolley</td>
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<td>• Other sensing – bump, proximity, crash etc.</td>
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<th>Solution</th>
<th>Impact</th>
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<td>• A detailed research and benchmarking study was done to arrive at the desired specs for the design of the AGV</td>
<td>• The AGV helps to eliminate manual operations there by improving the efficiency and cost savings</td>
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<td>• A very flexible product was designed, which facilitates quick assembly and disassembly of panels, body split and fitment without using any fasteners.</td>
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<td>• Optimized the space for better aesthetics</td>
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