

8.9 Innovation in Business Processes for Sustainability

The Company has promoted and supported the invention and development of products through the Research and Development Department with expertise in design, Test, and developing raw materials and products. In terms of innovation that promotes the production, it will drive through all relevant departments to ensure that technology can be applied to the organization, Leading product innovations to create value for all stakeholders and respond to changing directions in the automotive and agricultural machinery industry.

Management approach

The Company has set up a research and development department responsible for analyzing business opportunities to add value to define a project, work plan, and request approval of the budget according to the strategic planning process every year.

Research and Development Division

- Product and Raw Material Development Department
- Product Testing and Evaluation Department

The Company focuses on creating innovations at two levels: product innovation and business process innovation. First, focus on creating innovations in products through cooperation with business partners. In particular, customers, partners, and specialists continually develop the Company's products to meet consumer demands and reduce environmental impacts throughout the product lifecycle. In particular, the rear axle (Axle shaft) and Brake Disc (Brake Disc) are the Company's principal products to meet customers' needs. The Company has successfully improved its process to reduce the impact on the environment.

In addition, the Company has operational guidelines and processes to promote innovation in business processes at all levels of the organization. This enables organizations to improve their business processes and create value, significantly cost development. Reducing the impact on society and the environment also increases business competitiveness by considering the benefits to all stakeholders.

In 2021, the Company focused on studying the use of automated robotics technology in the production and inspection processes of the organization. The Company expects the development to lead to a long-term enhancement of the organization's ability to monitor and reduce risks in the manufacturing sector.

Innovation project results in 2021

Project name	Objectives	Implementation	Values/benefits /positive impacts
<p>Robotic Grinding machines automatic</p>	<ol style="list-style-type: none"> 1. To increase work efficiency, reduce time wasted from wrong work, and increase productivity or more output 2. To reduce work that may affect the ergonomics or insecurity of employees 3. To reduce exposure to dust, the environment that is not suitable for employees 	<p>Installing Auto Grinding robots for ICP and SFT factories</p>	<p>Economic</p> <ol style="list-style-type: none"> 1. the main cost of labor that was fed into the grinding cost was reduced by 95% or 1,484,000 baht per year <p>Social</p> <ol style="list-style-type: none"> 2. Robots can help lift the workpiece. Solve the problem of the workload of the employees who have to pick up and down work with the machine for a long time 8-12 hours <p>Environmental</p> <ol style="list-style-type: none"> 3. Environment From grinding in a closed state, dust can be controlled and removed effectively
<p>2. Robot 3D-Camara project</p>	<ol style="list-style-type: none"> 1. To increase efficiency in the production process, reduce the wasted time from waiting. Feed or forward workpieces between each other, thus increasing production efficiency 2. Solve the problem of tired employees where employees change their roles to be in charge of overall orderliness 	<p>Installing and balancing robots in SFT factories</p>	<p>Economics</p> <ol style="list-style-type: none"> 1. Increase efficiency in the production process of the workpiece. using the principle Competitiveness is to use 1 robot to produce 2 lines reducing costs 510,408 baht per year 2. Reduction of wasted time In the event that employees produce non-continuous work. The use of robots can support the machines to produce continuous work flow <p>Social</p> <ol style="list-style-type: none"> 2. Reduce the stagnation of workers in lifting the workpiece.

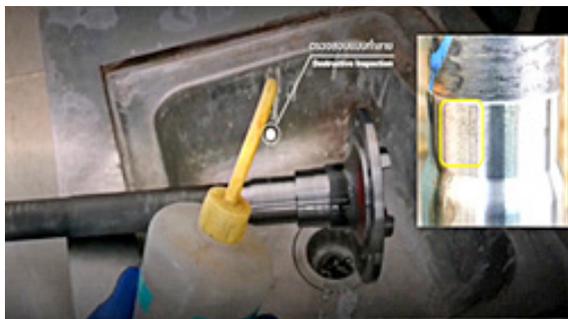
Project name	Objectives	Implementation	Values/benefits /positive impacts
3.Auto Inspection Grinding Burn Axle Shaft	<ol style="list-style-type: none"> 1. To reduce waste from destructive product testing. 2. Reduce the time required to inspect the workpiece by the staff. 	Install an automatic quality measuring device with an electrical system to detect Surface Inspection	Economics <ol style="list-style-type: none"> 1. Reduce destructive testing. 2. Reduce inspection time by quality Control staff 3. Reduce the risk of making wrong decisions by employees.



Project: Auto Grinding project (ICP and SAT)



Project: Robot 3D-Camara (SAT)



Project: Auto Inspection Grinding Burn Axle Shaft (SAT)