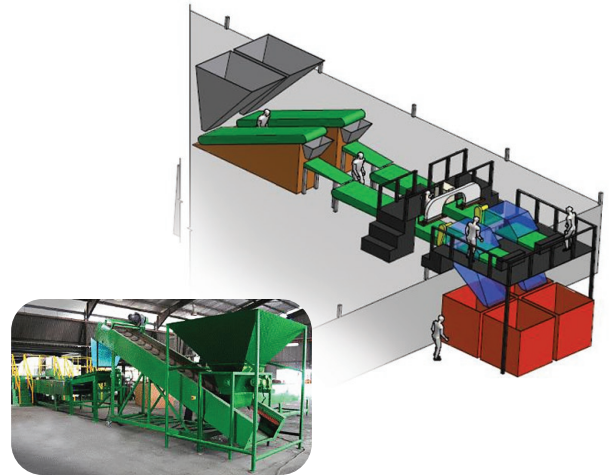




Manufacturing gets flexible

→ The Client: Eveready Manufacturing Pte Ltd

Eveready Manufacturing Pte Ltd was established in 1978 and today, they are one of the largest plastic processing companies in Singapore. Their main business is in plastic compounding and recycling, supplying both commodity and engineering plastic resins worldwide. They have a complete range of facilities to recycle plastic wastes of all forms, sizes and shapes into resins. One of their latest developments is the automated plastic sorting system which uses Near Infrared sensors to identify the types of plastics and colours. The Near Infrared sensors are extremely reliable and able to detect all types of plastics. This overcomes the problems of the conventional manual sorting which are labour intensive, slow, inaccurate and inconsistent.



→ The Challenge

Eveready has an in-house R&D team to develop the Automated Plastic Sorting system. According to Mr Lim Sien Koon, the Project Manager, the challenge that the team faced was that they often spent a lot time and money during the design phase due to inefficiencies. Sometimes, the team only realized the design faults after they had constructed the prototype. Design errors and cost overruns were impacting time to market.

→ Desired Outcome

To address the challenges faced, Eveready Manufacturing needed to shorten the design cycle, cut down on the design time and errors, and increase cost efficiency.

→ The Solution

After discussion with IMAGINiT, Eveready Manufacturing decided to adopt Autodesk® Inventor™ Suite to improve their design and development processes. Autodesk Inventor Suite allows the team to visualize, simulate, and analyze how a design will work under real-world conditions before a product or part is ever built. With Autodesk Inventor software, the team can check design and engineering data as they work, minimize the need for physical prototypes, and reduce costly engineering changes discovered after the design has been sent to manufacturing.

→ Actual Results

Eveready Manufacturing is very impressed with the outcome. “We are glad that we took their advice,” commented Mr Lim, who observes that the Inventor software not only offers them more flexibility in their design, but also provides the team a whole new perspective towards designing. Most importantly, it gives them a much clearer idea of how the final product would have looked without even constructing the actual prototype. By rapidly building digital prototypes that validate a design’s function, the team can detect errors before the product or part is ever built.

“The implementation process was surprisingly smooth,” Mr Lim attributes this success to the quality of the IMAGINiT training, competent technical staff and responsive technical support provided. “We are happy with IMAGINiT’s support and services. The training was comprehensive and well covered. The training material/handouts given were also very useful and we could use it as a reference book. IMAGINiT has been responsive to our queries and replies have been given to us promptly. We received updates, announcements, and invitations to seminars regularly, which are useful in keeping updated so that we are aware of the latest development in the software.”