

LOCTITE TOTAL ASSEMBLY SOLUTIONS ENABLES GLOBAL LEADER IN AUTOMATION TECHNOLOGY TO BOOST THEIR CONTRIBUTION TO SUSTAINABILITY



SITUATION

The production of a wide array of pneumatic and electronic control systems for process automation solutions by a global manufacturer was facing several challenges. The manual assembly process led to workers' complaints about odors, substantial waste of adhesives and packaging materials, inconsistent quality due to instances of excessive or incorrect adhesive application, and failure to meet production deadlines.

LOCTITE SOLUTION

The manufacturer used LOCTITE threadlockers and retaining compounds manually in small bottles for their assembly process. They were offered larger bottles and Health & Safety grade options, formulated to reduce hazardous substances, and improve worker safety. The conversion to larger adhesive bottles and a semi-automated process improved sustainability and productivity. They implemented the LOCTITE RC50 Integrated Dispenser, featuring a digital touch screen and precision regulator for efficient dispensing of the LOCTITE anaerobic adhesives. The reservoir's integrated dispenser can control two independent digital timing channels. The manufacturer also chose multiple LOCTITE Proximity Switch units with a valve mounting stand and integrated component sensor. These automated measures ensure consistent, precise, and efficient adhesive application during the production process.

BENEFITS

- Semi-automated dispensing reduced adhesive usage by over 15%, leading to **reduced scrap and rework** and improved adhesive dosing accuracy per assembly.
- **Enhanced chemical safety** achieved through automated adhesive application.
- Production output increased by approximately 10% due to **improved accuracy and speed** in adhesive application with the semi-automated system.
- Integrated adhesive dispenser allowed the use of larger adhesive bottles, resulting in a nearly 50% **reduction in package waste**.
- LOCTITE health & safety anaerobic solutions can provide additional benefits, **enhancing worker safety**.



LOCTITE Solution	IDH Number
LOCTITE® RC50 Integrated Dispenser	2814024
LOCTITE® Proximity Switch Unit	530015
LOCTITE® Threadlocker 243 (1 Liter)	1335903
LOCTITE® 638 Retaining Compound	1835937

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