

# PLARAD<sup>®</sup> MESSENGER

THE OFFICIAL COMPANY NEWSLETTER



## Plarad's advanced bolting automation

Plarad introduces an advanced automation solution featuring a large mobile platform with 7 degrees of freedom, integrating a robust Comau NJ-165-3.0 robot arm. Capable of moving payloads up to 150 kg, this system ensures safe operation with its internal safety mechanisms and offers omnidirectional movement at speeds up to 2 m/s, using laser scanners for obstacle recognition and autonomous driving. In cooperation with RWTH-WZL Aachen and Broetje Automation, Plarad is pushing the boundaries of automated industrial bolting.

Tools such as tensioners or nutrunners from Plarad can be seamlessly attached to the arm, enabling it to autonomously fasten and loosen bolts with minimal human involvement. This makes it an ideal tool for production facilities and various industrial applications. With its modular architecture and real-time control, Plarad's solution enhances automation processes, offering unparalleled efficiency and reliability across multiple sectors.

# Technical Specifications

- Payload capacity: Up to 150 kg
- Degrees of Freedom: 7
- Movement Speed: Up to 2 m/s
- Safety Features: Internal safety system, laser scanners
- Autonomous driving: Nvidia Isaac Sim

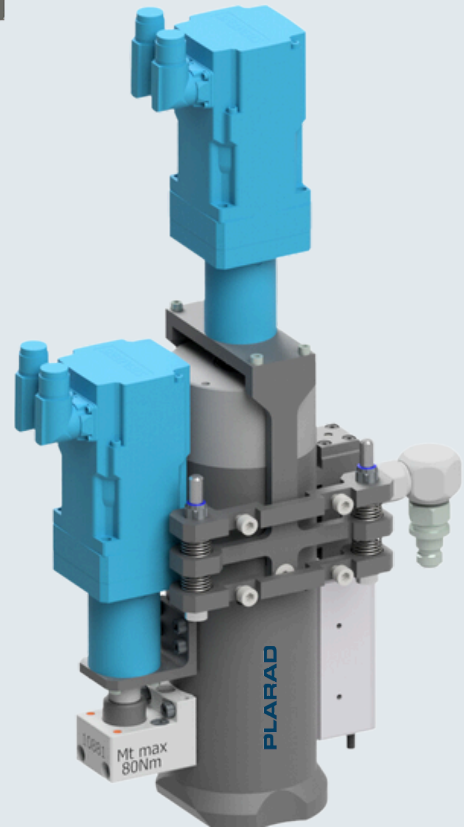
# Key Benefits

- Efficiency and Precision: Plarad's Hydraulic Tensioners with the robotic arm ensures precise bolt fastening and loosening
- Ergonomic Design: Confined spaces and bottom-up tightening applications
- Minimal Human Involvement: Enhances safety and productivity
- Versatile Applications: Ideal for wind energy, manufacturing, and more
- Safety: Advanced safety features ensure reliable and secure operations

# Use Cases

- Wind Energy: Automated manufacturing of larger components such as gear boxes, rotor, stator, shrink disc
- Heavy machineries: Bolting of slewing ring of excavator or hydraulic cylinder

Explore how Plarad's torque and tensioning tools can transform your automation process today!



For more information and further technical details, please feel free to contact us.