

ENGINEERED SMART ARM SOLUTIONS

**INTELLIGENT TOOL SUPPORT.
ENHANCED CONTROL.
A MORE PRODUCTIVE WORKFORCE.**

Allied Smart Arms combine ergonomic tool positioning with advanced control and feedback capabilities to create a smarter fastening process. Designed to support a wide range of assembly tools, Smart Arms help reduce operator fatigue, control torque reaction, and enable error-proofing for improved quality

CUSTOM
ENGINEERED
SOLUTIONS
FOR A STRONGER
TOMORROW



WHAT IT DOES

Smart Arms provide controlled support and precise positioning for industrial fastening tools while integrating advanced functionality such as torque control, process monitoring, and error-proofing.

Allied solutions can accommodate a variety of tool styles and orientations, with configurable reach, mounting options, and control features to fit your application, workspace, and production requirements.



VERTICAL

HORIZONTAL

CUSTOM

KEY BENEFITS

-  **Reduce Operator Fatigue**
Support the weight of heavy fastening tools and reduce repetitive strain.
-  **Control Torque Reaction**
Help minimize the shock and force transferred to the operator during fastening.
-  **Improve Ergonomics**
Create a more comfortable and efficient fastening process.
-  **Enable Error-Proofing**
Integrate with torque control, position sensing, and process monitoring systems.
-  **Increase Flexibility**
Configurable for multiple tool styles, orientations, and mounting methods.
-  **Drive Productivity**
Consistent tool positioning and process control help improve quality and reduce downtime.

COMMON APPLICATIONS



AUTOMOTIVE & TRANSPORTATION

Assembly operations involving repetitive or high-torque fastening.



INDUSTRIAL MANUFACTURING

Tool support for production, assembly, and workstation environments.



HEAVY EQUIPMENT

Improved handling and control of larger or heavier fastening tools.



MULTI-POSITION FASTENING

Applications requiring tools to move through multiple positions or orientations.

REAL
CHALLENGES.
ENGINEERED
SOLUTIONS.

THE ALLIED ADVANTAGE

A smarter arm for a stronger, more efficient production process.

Allied combines application expertise, engineering, manufacturing, integration, installation, and ongoing service to develop solutions around the actual production challenge. Our engineering team supports custom design and application development, while our Torque Lab provides fastening expertise, testing, calibration, and technical support.

From concept to installation, we engineer solutions that fit the way you work.