



ENGINEERING | MANUFACTURING | INTEGRATION | SERVICE

TORQUE TUBES

VERTICAL BALANCERS

**EFFORTLESS HANDLING.
GREATER CONTROL.
A MORE PRODUCTIVE WORKFORCE.**

Allied Torque Tube Vertical Balancers provide weightless tool support for assembly tools and end effectors, allowing operators to move loads smoothly and precisely with minimal effort. Designed to reduce operator fatigue and improve ergonomics, our balancers enhance safety, increase productivity, and support consistent, high-quality assembly.

WHAT IT DOES

Torque Tube Vertical Balancers neutralize the weight of handheld tools and end effectors, giving operators smooth, effortless control through the entire range of motion. By counterbalancing the tool and its accessories, they reduce strain, minimize repetitive motion injuries, and enable faster, more accurate assembly.

Allied solutions can be configured for a variety of tool types, load ranges, and workspace requirements, and are easily integrated into new or existing workstations and assembly systems.



CEILING MOUNT

GANTRY MOUNT

CUSTOM CONFIGURATIONS

REAL
CHALLENGES.
ENGINEERED
SOLUTIONS.

KEY BENEFITS



Neutralize Tool Weight

Counterbalances the weight of tools and accessories for near weightless operation.



Reduce Operator Fatigue

Minimizes strain and repetitive motion injuries.



Improve Productivity

Faster cycle times and greater accuracy.



Enhance Ergonomics

Smooth, precise control throughout the work envelope.



Flexible Configurations

Available in ceiling, gantry, or custom mounting solutions.



Lower Total Cost of Ownership

Improve uptime, reduce rework, and extend tool life.

COMMON APPLICATIONS



AUTOMOTIVE & TRANSPORTATION

Assembly tools, trim installation, and component handling.



INDUSTRIAL MANUFACTURING

General assembly, sub-assemblies, and production lines.



HEAVY EQUIPMENT

Drivetrain, chassis, and large component assembly.



AEROSPACE & DEFENSE

Precision assembly and tool support applications.



GENERAL MANUFACTURING

A wide range of assembly and material handling applications.

THE ALLIED ADVANTAGE

From application expertise to complete implementation.

Allied combines engineering, manufacturing, integration, and ongoing service to deliver Torque Tube Vertical Balancer solutions that fit the way you work. Our team supports custom design, application development, testing, and installation—backed by our Torque Lab and real-world experience.

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



LET'S ENGINEER A BETTER SOLUTION.

Engineering | Manufacturing | Integration | Service



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