

Transform the way you work forever.



equipois®

DEFY GRAVITY.®

www.equipoisinc.com

*zeroG[®] mechanical arms make tools virtually weightless.
The result: greater productivity, reduced injuries, and
improved quality.*



The zeroG[®] Advantage

The Equipois zeroG[®] arm is a patented technology that allows tools, parts, and other payloads to be maneuvered as if weightless, but with full range of motion – providing its users with a level of performance unmatched by other products such as crane-based systems, torque arms, and tool balancers. Some of the top companies in the world have already implemented zeroG[®] as a best practice because of its ability to boost productivity, reduce injuries, and improve quality.

Boost Productivity

zeroG[®] allows workers to use tools for longer periods, with fewer work stoppages due to fatigue. zeroG[®] also lets workers use heavier, more powerful tools, which can significantly decrease task times and increase throughput.

Reduce Costs from Injury

The high cost of manufacturing-related injuries (nearly \$80,000 in total costs for a shoulder injury) means that improving worker safety can have a dramatic effect on profitability. Because operators are guiding, rather than lifting tools, the zeroG[®] arm can virtually eliminate the most common causes of shoulder, arm and back injuries – overexertion and repetitive stress. Independent ergonomics testing has confirmed that zeroG[®] reduces worker exertion levels below the fatigue threshold.

Improve Quality

By making even heavy tools effectively weightless, zeroG[®] allows workers to use their fine motor skills on even the most physically demanding tasks – translating into greater operator precision, fewer mistakes due to fatigue, and higher work quality.



zeroG[®] Facts

- Payback of less than a year and ROI over 100% for most customers
- Implemented as best practice by some of the top manufacturing companies in the world
- Intuitive to control and simple to learn – less than 30 minutes of operator training required
- Seamlessly integrates into almost any manufacturing environment
- Requires zero energy & minimal maintenance

A typical zeroG[®] arm takes one hour to install – and less than 30 minutes for operator training



“We are excited about what the zeroG[®] technology can mean to our manufacturing process. We believe that it will not only reduce injuries where implemented, but also increase our productivity and reduce some operating costs.”

-World-leading Automotive Customer

Zero Gravity Means Optimum Performance

Total Flexibility in Mounting

zeroG[®] is deployable in virtually any manufacturing environment and can be adapted to both space-constrained and unique industrial settings, while retaining its remarkably small footprint.

The zeroG[®] system is designed to attach easily to any stable structure, including standard carts, overhead rails, bench & table tops, and mobile stands.

We also provide the following ready-made mounting solutions:

- Chairs
- Carts
- Gantries
- Jibs



Easy to Use

Our technology is intuitive to control, which makes it simple to learn. Only minimal training – usually less than 30 minutes – is required to master the use of a zeroG[®] arm.

zeroG[®]'s uncomplicated design means that very little maintenance of the arm is required. Regular cleaning and occasional lubrication are all that is needed to keep our arms running at peak performance.

Our Customers

Toyota
Boeing
Honda
Lockheed Martin
John Deere
U.S. Marines
Ford
Mercury Marine

Spirit Aerosystems
PacifiCorp
U.S. Air Force

Our Industries

Automotive
Commercial Aerospace
Defense
Heavy Machinery
Other Mfg. Industries

Eliminate Energy Costs

zeroG[®] is an entirely mechanical device and costs nothing to power. Unlike conventional tool support products, our arms require no electricity, air or hydraulics, making zeroG[®] much simpler to integrate and cheaper to operate. The high cost of energy (made even worse by pneumatic leaks or other inefficiencies) means that zeroG[®] could pay for itself in energy savings alone.

Compatible with a Variety of Tools



- Grinders
- Sanders
- Drills
- Rivet squeezers
- Nut Runners
- Torque Tools
- Many more tools

A Fortune 100 company recently went through five vendors before contacting us about a costly, decades-old ergonomic issue – zeroG® solved the problem.



"I've worked on the line for 30 years. If this arm had been around, my whole life would have been different."

-Aerospace Employee

zeroG[®] Case Studies

Award Winning

Equipois and Mercury Marine were honored with a 2009 Progressive Manufacturing Award for a project that generated an estimated ROI of 100% for our customer, the world's leading manufacturer of recreational marine propulsion engines. Find out more at www.equipoisinc.com.



Grinding

Challenge: Lengthy grinding operation requiring three separate manual precision grinding tasks
zeroG[®] solution: Installation of a zeroG⁴ enabled the company to use a larger, more efficient pneumatic sander
Customer benefit: Significant cycle time reduction, with a 400% ROI



Riveting

Challenge: Significant operator injury costs associated with use of a 28 lbs. rivet gun
zeroG[®] solution: Installation of a zeroG⁴ on a slide rail system
Customer benefit: Injury avoidance, reduced downtime due to exhaustion, and improved quality due to increased precision in guidance of the tool



Drilling

Challenge: Low repetition but awkward drilling task using three different drill bits on three different tools
zeroG[®] solution: zeroG⁴ with an interchangeable ring gimbal, allowing for fast drill change
Customer benefit: Enabled reduction in required tool changes, while virtually eliminating costly and recurring injuries

Our proprietary, patent-pending gimbals are the interface between the zeroG® arm and the tool it holds, allowing the tool to achieve any position and angle that workers need. Providing up to four axes of freedom, our gimbals can be attached and removed quickly and easily.



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