

Zero Gravity Arm

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Hand tools like drills, hammers and saws quickly get very heavy when you're working on a job all day. These tools are an integral part of work. But using them for hours will wear you down until you feel as if you can barely lift your yours. Eventually, even the strongest, most fit worker is going to slow down, get tired and start getting sloppy after 8 hours or more of hand tool use.

Finding a way to lift up hand tools so the worker doesn't feel the weight of the tool has been a challenge.

Worker compliance is also an issue. Workers don't like to use tools or accessories that get in their way, or are uncomfortable to wear — even when safety is a motivation.

A technology-based solution to this problem has been in the works and is now available — the Zero Gravity Arm which covers a work area of 4 feet left and right and 31" up and down without moving the arm. This enabling tool is compatible with drills, power screw drivers, power hammers, rivet busters, grinders, impacts and all types of saws. This is a device that needs to be attached to something. There are attachments that allow for ZAG to be fitted to a boom or scissor lifts.

One project manager shared his experience working with this device on the job with a concrete sub.

“Previously, it took two men to drill horizontal holes in a deck. One operated the drill, and the second held and guided the drill on his shoulder. Very unsafe. At high torque, if you hit rebar, the drill body would spin suddenly and cause severe injuries. Now, one man operates safely and precisely. We use half the manpower and currently are producing nearly twice the output in the same timeframe.”

The Zero Gravity Arm is being used by large and medium general contractors, bridge contractors, concrete contractors, demo contractors, infrastructure and industrial contractors on new buildings, restoration projects, concrete demo, refractory tear out, bridges, canals, and dams.

The Zero Gravity Arm contributes to lean/safety by reducing fatigue and minimizing the wear and tear on the body when holding a heavy tool. Overtime working with heavy tools breaks down the human body. Users report double to 4x productivity depending on the application.

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