zeroG® vs. Tool Balancers

Tool balancers have been used for decades to hold hand-operated tools in a fixed position. While tool balancers can be excellent tool-support devices in certain situations, they have limitations, making tool balancers unsuitable for some applications and manufacturing environments.

Features	*zeroG®*	Tool Balancers
Freedom of Motion	**Full Freedom of Motion**: The operator is able to maneuver his tool with every degree and angle of freedom needed – just without the weight.	**Full Freedom of Motion**: Tool balancers excel in purely vertical travel applications – once rotation or more is required outside of the vertical axis, the utility of the balancer is minimized and can actually place added strain on the operator.
Mounting Flexibility	**Total Flexibility in Mounting**: *zeroG®'s* universal mounting system and small footprint enable seamless integration in almost any manufacturing environment.	**Overhead Mounting Required**: Difficult to accommodate in many manufacturing environments and for tasks that require overhead work.
Power Source	**Zero Energy Required**: *zeroG®* is 100% mechanical and requires no power source to operate.	**Sometimes Required**: Many lower-weight tool balancers are mechanical, while higher-payload balancers tend to require pneumatic or electric power.
Payload Capacity	**Low-to-Medium Weight**: *zeroG®* technology was designed to support tools, parts and other payloads up to 36 lbs. The zeroG^2 arm can support tools up to 10 lbs., while the zeroG4 arm supports payloads ranging from 8 lbs. to 36 lbs.	**Wide Range**: Tool balancers vary greatly in their payload capacity. Some balancers support tools weighing a few pounds while others can support several hundred pounds. Many tool balancers also have a narrow payload range.