



Engineering Solutions

Thumb-Screw Worm Gear Clamp

Perfect for serviceability for the consumer!



Features:

- Metal thumb screw
- Standard size to fit socket driver for quick installation on assembly line
- Easily removable by hand – no tool required!
- More durable than plastic thumb screws

Problem: A manufacturer of engines (for lawn mowers and ATV's, etc.) wanted a clamp that was easy for the end-consumer of the engine to remove easily for serviceability. However, the engine manufacturer also wanted the clamp to be able to be installed easily and quickly on the assembly line. A traditional thumb-screw clamp would be perfect for the consumer, but not something the manufacturer could install quickly on the assembly line.

Solution: EFC's unique thumb-screw worm-gear clamp has a metal thumb-screw that fits into a standard sized socket driver so that the installer at the engine manufacturer (on assembly line) can quickly install the clamp using a power driver. The end-consumer of the final product (lawn mower/ATV/etc) can easily remove and replace the clamp just using their fingers to turn the thumb-screw (no tool required in the field). The manufacturer and end-consumer both benefit and get what they want!

EFC's metal thumb-screw is also much more durable than alternative plastic thumb-screws that exist in the market. The plastic thumb-screws cannot be "driven" with a power driver on the assembly line like EFC's metal thumb-screw.



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