

FASTENING SYSTEMS ENGINEERED FOR PERFORMANCE™

Benefits of Full Hex Rivet Nuts vs. Welded Hex Fasteners



The challenge:

A manufacturer of agricultural equipment was experiencing insufficient throughput rates in its baler product lines.

- The issue was determined to be a result of the welding process used in the numerous attachment points.
- The manufacturer wanted to improve the work environment by reducing the amount of emissions and vapors caused by the welding process.



Working directly with the manufacturer, the Sherex engineering team designed a new line of full hex rivet nuts to meet the application performance requirements.

- The new full hex rivet nuts significantly increased the application spin out resistance during installation.
- Sherex provided a complete installation solution to the customer: full hex rivet nuts and the FLEX-5 tool.
- This new process replaced the previous welding process, increasing throughput by 50%.
- Additionally, the new solution eliminated all emissions and vapors associated with the welding process, which led to a safer working environment for the assemblers.

The savings:

Annual usage of the rivet nuts: 1,000,000

Cost savings: \$0.12 per weld =

\$120,000 annual savings!

Sherex is a global manufacturer with a unique market approach in engineered fastening solutions that combines fasteners, tooling, and automation to deliver the best solution at the **lowest total installed cost**.











SHEREX FASTENING SOLUTIONS

FASTENING SYSTEMS ENGINEERED FOR PERFORMANCE™





Benefits of Eliminating Welding from Steel Attachments

The challenge:

A manufacturer of construction and agricultural equipment was using weld nuts as attachment points in frame assemblies. The manufacturer wanted to replace the welding process with a more efficient process while maintaining the required class 10 thread strength.

- During the powder coating process, each weld nut needed to be masked to prevent the coat from sticking to the threads.
- After the powder coat process, the threads needed to be unmasked so the mating bolt could be installed.



Working closely with the customer, the Sherex engineering team designed a line of M10 full hex structural rivet nuts.

- To meet the class 10 thread strength application requirements, the rivet nuts were cold formed with alloy steel.
- The two-step process of masking then unmasking the threads was completely eliminated because Sherex's Rivet nuts can be installed post paint or powder coat without any damage to the base material.
- The rivet nut design combined with the accurate, effective, and fast installation using the Sherex FLEX-18 installation tool, eliminated the welding process and the need to mask and unmask the threads, thereby reducing the production time by 20 minutes per frame assembly.







The savings:

Annual usage of the rivet nuts: 2,250,000

Cost savings: \$0.06 per weld = **\$135,000** annual savings!

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