		WSON Pro	ducts	CASE	STUDY		<mark>္ဌဲင</mark> ၭ	
Automotive	Chemicals	Cutting Tools/ Abrasives	Electrical	Fasteners	Fluid Power	Safety/ Material Handling	Shop Supplie Hand Tools	s/ Welding
Farming	Industria	Manu	Ifacturing	Military	Mining	Recrea	tion	Service

Custom, Single-Purpose Fasteners Are Not Always Necessary

Problem

Obtaining custom fasteners to secure knives onto tire shredders was becoming too expensive and time consuming.

Review

- OEM recommended custom fasteners that would align the shoulder with the shear plane to provide extra shear strength.
- Knives were being routinely removed for resharpening.
- Resharpened knives were being installed with three new fasteners.

Assessment

Application is more dependent on tensile strength than shear strength

Recommendation

Tru-Torq[®] and Falcon Grip[®] fasteners provide the necessary clamp load, which is the primary service load.

Result

- Reduced cost of not having to order custom-made fasteners.
- Reduced downtime associated with ordering custom fasteners with long lead times.



Rubber-tire shredder





Knife seat

Three fasteners per knife

Tensile force

Shear force



Cut-away view simulating installed knife

- 1. Knife
- 2. Knife seat
- 3. Custom capscrew
- 4. FalconGrip Grade 8 Capscrew
- 5. Tru-Torq® Capscrew

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