

## OBSERVATION REPORT

Date	2023/01/30	Customer	Atlas Motors
Site	Ngwenya	Country	Eswatini (formerly Swaziland)
Industry	Engineering	Machine	Sugar Cane Shredder 1
Bolt Size	M39	Nut Size	60mm A/F
Thread Pitch	4mm	Bolt Protrusion	Minimal
No of Bolts	8	PCD	Eq Spaced
Current Tool	Manual	Proposed Tool	Stealth
Fixture	HYTORC Washer	Torque Value	2500Nm
Temperature	Ambient	Vibration	Medium/High

**OBSERVATION (Problem)** Customer approached HYTORC for a solution to tightening Sugar Cane Shredders, the issue was achieving the optimal torque value with the current tooling they have. Also the accuracy and speed of the torque has to benefit the application.



**SOLUTION:** HYTORC visited the facility and demonstrated the use of Stealth and Avanti tools for the application, the tools were powered by Vector pump, Customer initially had a high torque value and were not using lubrication. This was added and a recommended torque value was agreed upon. The bolts have Standard nuts and utilise split pins to secure the bolts after tightening, HYTORC propose to use back up washers with long-term goal of utilising HYTORC reaction washer.

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