

OBSERVATION REPORT

Date	2023/01/30	Customer	Atlas Motors
Site	Ngwenya	Country	Eswatini (formerly Swaziland)
Industry	Engineering	Machine	Sugar Cane Shredder 2
Bolt Size	M48	Nut Size	75mm A/F
Thread Pitch	3mm	Bolt Protrusion	Minimal
No of Bolts	12	PCD	Eq Spaced
Current Tool	Manual	Proposed Tool	Stealth
Fixture	HYTORC Washer	Torque Value	6000Nm
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 castle nuts and utilise split pins to secure the bolts after tightening, HYTORC added back up washers to the application, with long-term goal of utilising HYTORC reaction washer.

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