

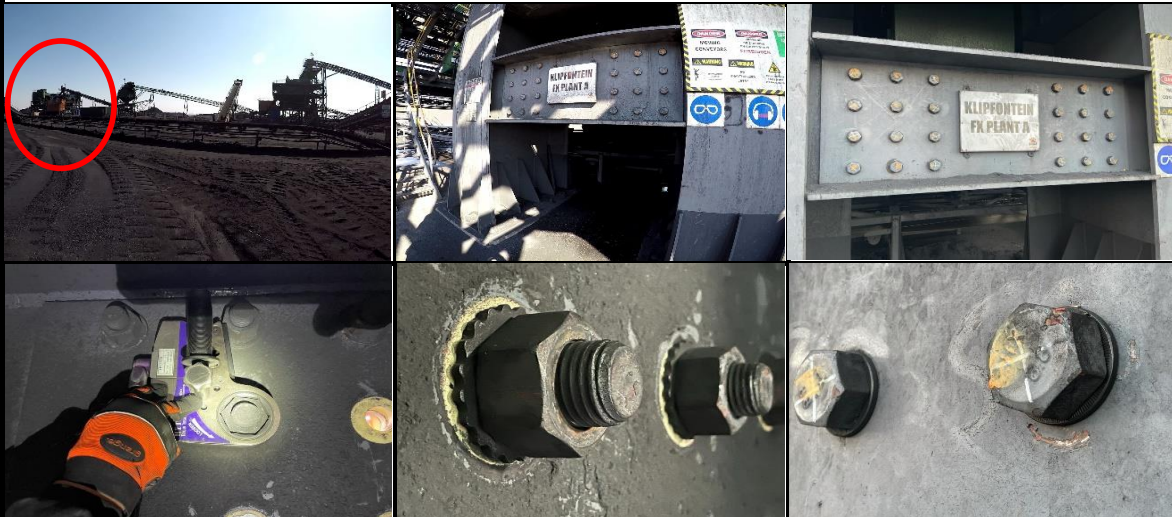
Case Study



CASE STUDY

Date	2021/08/10	Customer	Genet Mineral Processing
Site	Klipfontein	Rep	R Bryan
Industry	Mining	Machine	Coal Separator Bridge
Bolt Size	M39	Nut Size	60mm A/F
Thread Pitch	4mm	Bolt Protrusion	Minimal
No of Bolts	24	PCD	250mm
Current Tool	Flogging	Proposed Tool	Stealth
Fixture	HYTORC Washer	Torque Value	2700Nm
Temperature	Ambient	Vibration	Excessive

OBSERVATION (Problem) Customer required a method to bolt the bridge bolts on their separator that can provide credible repeatable torque values to each bolt, this is due to the excessive levels of vibration evident on the plant superstructure. The customer have had to schedule flogging as part of the maintenance schedule due to bolts becoming loose.



SOLUTION: HYTORC surveyed the application and noticed that the inconsistency in the torque values contributes to the bolts loosening over time, a controlled torque system was recommended and the HYTORC Washer was proposed to alleviate the challenge. HYTORC provided HYTORC washers and Back up washers to address the bolting challenge, this was done with a Stealth Tool with a Vector Pump, total bolt tightening time was reduced to 30min from 3hours. Customer will be engaged with further application solutions.

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