

PROJECTS WITH KINETIC ENERGY SAVING VIBRATORY EQUIPMENT

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ANGLOGOLD ASHANTI – KOPANANG MINE - REEF SILO KINETIC FEEDER

LLAMBEC WERE TASKED TO DESIGN A FEEDER THAT WOULD EXTRACT ROM GOLD ORE FROM UNDER THE REEF SILO TO FILL 8 RAIL HOPPERS AT A RATE OF 1000 TPH.

THE PROJECT WAS COMPLETED WITHIN TWO MONTHS OF BEEN GIVEN THE GREEN LIGHT BY THE ATS MANAGEMENT TEAM AND THIS HUGE 2000 WIDE X 6000 LONG KINETIC ENERGY SAVING FEEDER WAS DESIGNED, BUILT AND INSTALLED.



Note:

- Ore tonnage increased from an average of 7, 500 t/m To 68, 000 tons in the first month of operation, with the Potential to increase to 120, 000 t/m.
- Operational costs reduced by approximately R250, 000 per month (based on R7, 500 t/m).
- The excess of 14 hours it used to take to load the 8 Rail Hoppers has been reduced to 40 minutes.
- Brute Force Equipment of the traditional type were not possible because of height and power restrictions.
- **The Kinetic Feeder is run with 2 x 3,5 kW Vibratory Motors only.**



- **LHS Picture** showing the Kinetic feeder installed under the Reef Silo.
- **Middle picture** showing the material Bed Depth carried continuously on the pan (approx. 10 tonnes at any given stage)
- **RHS picture** shows the Rail Hoppers being moved into position for filling.

Important to note: It used to take in excess of 14 hours to load all 8 Rail Hoppers, with the new Kinetic System it takes only 40 minutes.