

Case Study

Bearings



Summary



Industry:	Mining and Quarrying
Application:	Screw Conveyor
Actual Saving:	£N/A
Payback Period:	N/A



Performance and Productivity Increased with Revolve Hanger Units

Application downtime reduced to zero

ISSUE

A gypsum processing plant in the UK was using an existing bearing arrangement of cast iron collars and phosphor bronze shells as the bearing mounting for a screw conveyor - the conveyor transferred gypsum powder through the processing plant.

The existing bearing, although lubricated, was creating a high pitched noise, excessive vibration and heat due to lubricant and powder mixing, thus creating a lapping paste, this eventually caused the premature failure of the existing bearing set up.

SOLUTION

A visit to site by Revolve's Technical Manager, highlighted the benefits of changing the existing bearing assembly to the Revolve Split Roller Bearing Hanger Unit.

The benefits of the superior sealing arrangement of Kevlar gland packer and a cylindrical rolling element bearing was explained to the customer and, with the support of the Service Centre Manager on site, the customer agreed to have the conveyor screws re-manufactured to incorporate the Revolve SRB Hanger Unit.

Since installation in April 2012 the bearing has been running problem free. Performance & productivity have increased, whilst downtime on this particular application has reduced to zero.

OTHER BENEFITS

- Greatly reduced noise & vibration
- Reduced line stoppages
- Increased bearing life
- Vastly increased productivity

FURTHER COMMENTS...

The success of this unit has helped secure further orders for the hanger units on other screw conveyors within the plant.

MORE INFORMATION

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