

PumpAction..... Issue 20

CASE STUDY

Sweet solution with SIHI at sugar mill

Kelair Pumps was approached by Isis Central Sugar Mill in Queensland to find a suitable solution to their boiler feed pump problems. Isis had purchased a boiler package some time ago, which had never been running to full capacity because it was not required at the time, but sized for future expansion. The sugar mill was in the process of upgrading the boiler system altogether, including a new de-aerator and alternator.

Isis asked Kelair for a new boiler feed pump which would be able to meet their various requirements during the upgrade stage and also for the future duties, when the boiler is running at its full required capacity of 160 TPH.



With there being such a large variance in flow, while requiring a constant discharge pressure from the pump, the proposal was to drive the pump using a variable frequency drive, which apart from fulfilling Isis' requirements of meeting the various duty points ranging from 70-160TPH, would also amount to significant power savings.

For this application, Kelair proposed the use of a SIHI ring section, horizontal multistage pump constructed from stainless steel components, driven by a heavy duty WEG mining motor, specially modified to take a variable frequency input. The finished product had an approximate weight of 2.2 tonnes.

The result has been a reduction in the mill's power energy costs.

- For further product information visit our website www.kelairpumps.com.au