



**KelairPumps**



•PUMPS

•BUILDING & FIRE

•STEAM TURBINES

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# PumpAction.....

ISSUE 41 JUNE 07

## CASE STUDY

### Don't forget your HMD's

*Sales Engineer Hassan Saib (VIC)*

Twenty-four hours a day, at 300°C is part of the process to produce and refine premium quality edible vegetable oils and tallow. Derived from unrefined oils, cottonseed, sunflower, canola, palm, peanut, soya bean oils and tallow are just some of the lines processed by a fast growing Peerless Foods of Braybrook, Victoria. The plant operates 363 days a year, twenty-four hours a day with a design temperature of 300°C.

Brian Obst, Project Engineering Manager stated Peerless had been using conventional end-suction centrifugal pumps that had a history of failures until research by the company's engineers to solve the problem confirmed that HMD sealless mag-drive pumps would fit into the design of the plant's harsh working conditions, very high design temperatures, and raw product that is aggressive and abrasive to pumps. So twenty years ago Peerless changed over to HMD and has since put in seven HMD's and carries spare pumps in case of a breakdown, and has never looked back.

HMD pumps have been in production in the UK since 1946 and the company has a proud history of making high quality sealless magnetic-drive (GT, GS, CSC and CSD) pumps to exacting quality standards ISO9001-1987, audited and certified by Lloyds Register QA Ltd.

The magnetic-drive pump eliminates the danger of emissions and leaks and the need for a mechanical seal which, by its nature, under very harsh working conditions, has a limited life. This could and will lead to seal failures, causing leakage of product especially in the case of Peerless Foods and similar refineries and plants.

Oil at very high temperatures leaking onto the floor has a potential to cause serious injury and could quickly turn into a nightmare for OH&S issues and EH&S (environmental health and safety).

The HMD pumps are designed with safety in mind to handle all sorts of acids, chemicals, oils and water from ambient to high temperature with further added benefits:



- No seals; to minimise maintenance time and costs and potential leaks.
- Sealless design; for total containment, essential for hazardous, aggressive or valuable product.
- Interchangeability of components; for maximum convenience and reduced stock holding, operator training etc.
- High efficiency wet end; to benefit maximum flow / head coverage.
- High efficiency magnetic couplings; to optimise application to the duty conditions.
- Wide choice of materials; to allow a choice of various metals in the construction of your pump, ensuring the best chemical compatibility.
- Single joint casing / containment shroud / shell; standard to the product range, to reduce potential leak paths.
- Casing gasket fully confined; eliminates risk of blowout.
- Universal connection options; suction and discharge flange connections can be configured to your exact requirements.
- Modular rotating element cartridge; providing the most efficient way to perform replacements and manage your spare plant inventory.
- Removable cartridge; major rotating components can be removed in one operation for outside refurbishment or overhaul.
- Robust magnetic couplings; designed for full starting conditions, featuring protected magnets and optimised for specific duty parameters.

• For further product information visit [www.kelairpumps.com.au](http://www.kelairpumps.com.au)