

Application story



Burner Fuel Feed for Iron Ore Production

Location	India	Hydra-Cell model	G25XMSGHFEHB
Type of application	Burner Fuel Feed for Iron Ore Production	Flow rate	Up to 67 L/min (17.7 gpm)
Liquid	Furnace Oil Light Diesel oil	Pressure	Up to 26 bar (377 psi)
Application details	Super Smelters Limited operates a state of the art integrated steel plant in Jamuria, West Bengal. The Company has devised a way of turning iron ore dust, previously considered a waste material, into pellets that are used for the production of sponge iron. During the process the spherical pellets have to be kiln baked to remove the moisture content while preserving the porous nature of the material. The size of the flame produced by the kiln burner is critical to the success of the drying process. Gear pumps used previously to inject the fuel through the burner spray nozzles were problematic. Seal wear, caused by particles within the fuel, led to reduced pressure as a result of internal leakage giving rise to unsatisfactory baking. These pumps were being replaced every 15 days in an attempt to maintain burner performance... costly in terms of acquisition, maintenance and loss of production. A Hydra-Cell G25 pump demonstrated how the problems could be overcome and has run reliably for over 3 months. It handles the solid particles easily with no requirement for fine filtration and has a lower energy requirement than the original gear pumps. The customer is pleased with the pump's performance and is in the process of installing a further Hydra-Cell.		
Advantages of Hydra-Cell pump on this application	Hydra-Cell was chosen for this application for the following reasons: - Ability to handle these liquids with particles with ease. - Vastly increased up-time, with reduced maintenance requirements.		

www.hydra-cell.co.uk

Wanner Engineering -
World Headquarters & Manufacturing
Minneapolis USA
t: (612) 332-5681
e: sales@wannereng.com

Wanner International
Hampshire UK
t: +44 (0) 1252 816847
e: sales@wannerint.com

Wanner Pumps
Shanghai CHINA
t: +86-21-6876 3700
e: sales@wannerpumps.com

Wanner Pumps
Kowloon HONG KONG
t: +852 3428 6534
e: sales@wannerpumps.com