

# SYKEDUP

Volume 17 / Issue 2 / 2009

## SYKES LAUNCHES THE NEW HIMAX HH160i



**SYKES**

[sykesgroup.com](http://sykesgroup.com)

# WELCOME TO THE HH160i

## COVER STORY > Sykes new HH160i is the latest addition to the HIMAX range of durable and reliable auto prime pumps.

The HH160i provides a maximum shut head of 140m and a maximum flow rate of 188 l/sec. When operating at B.E.P the HH160i produces 95m of head at 137 l/sec flow rate.

The HH160i has a 78% efficiency at B.E.P, market leading shaft stiffness and a brand new heavy duty SAE (diesel) bearing frame.

The Research & Development team at Sykes has designed the HH160i to be extremely robust, reliable and efficient. This all leads to lower operating costs, less fuel usage and much less maintenance.



Sykes Group Engineering Director Darren Coles said that the flexibility of the HH160i pump makes it highly suitable for rental businesses and mine sites where application and duties are varied.

"There are many improved features to the HH160i that will make it an attractive option to the pump operators in the mining, quarrying, construction and rental market sectors," said Darren.

"And like all Sykes pumps the HH160i has impeller and replaceable wear plates in 316 s/s as standard."

The new SAE (diesel) mount bearing frame ensures consistent drive coupling alignment, an excellent feature for mobile skid application. Also assisting to keep the maintenance spend down is the over sized bearings that are oil lubricated and fully protected by bearing isolators.

The HH160i is fitted with a high pressure cartridge mechanical seal. The mechanical seal pumps its own glycol quench fluid allowing the HH160i to prime and re-prime on dry run applications.

HH160i is a feature packed high head mining pump that has been designed to handle the severe conditions and the operational needs of the marketplace.

### DESIGN SPECIFICATIONS

<b>Pump Designation</b>	HH160i
<b>Pump Description</b>	Centrifugal Single Stage, Volute Type, 2 vanes semi-open impeller
<b>Suction Flange</b>	200mm T/E (Slotted)
<b>Delivery Flange</b>	150mm T/E (Slotted)
<b>Nominal Casing Thickness</b>	20mm
<b>Nominal Shaft Diameter</b>	75mm
<b>Impeller Eye Diameter</b>	192mm
<b>Maximum Impeller O.D.</b>	456mm
<b>Minimum Impeller O.D.</b>	410mm
<b>Solids Handling Size</b>	38mm
<b>Operating Speed</b>	MIN: 1400rpm MAX: 2000rpm
<b>Maximum Head</b>	140m
<b>Maximum Capacity</b>	188L/sec
<b>Bearing Sizes</b>	Pump End: NU 318 Roller Bearing Drive End: 7317 x 2 Off Angular Contact Ball Bearing
<b>Bearing Lubrication:</b>	Hydraulic 150 Grade 68

# SYKES ASSISTS A NATIONAL PARK TO KEEP IT GREEN

Sykes Group was pleased when they were able to continue assisting an Australian National Park in their efforts to remove waste liquid from their dam.



The local council responsible for the park already had two Sykes pumps in their fleet, one on duty, the other one on a standby, as it is critical for their application to have a redundancy in the system. However due to the age of one of the pumps they decided it was necessary to replace an old pump with a brand new Sykes HH80 pump and keep the old pump for auxiliary duties elsewhere.

Sykes Sales Representative Mark Edelstein provided the council with an HH80 fitted with a Detroit 703LT engine, to work with their existing HH80 to pump out leachate from the collecting dam to a sewer main.

"One of the requirements was that the engine had to be water cooled as they are installed in a shed with a poor ventilation and it get up to a 45°C in hot summer months", said Mark.

Both the old pumps and the brand new pump have also been supplied with a loss of prime shutdown protection. This is essential as the operator starts the pumps up first thing in the morning and then leaves. Once the pump suction hose is out of the water (three to four hours depending on the leachate inflow) loss of prime shutdown stops the engines and prevents the pumps from running dry.



**For more information on the pumps mentioned, please contact your local sales representative or visit [sykesgroup.com](http://sykesgroup.com)**



## PROVES THEIR RELIABILITY

When the National Institute of Water and Atmosphere had experienced the unreliability of other pumps, they were understandably dubious that another pump could handle their application involving salt water.

Sykes Sales Representative Peter Imlach convinced the Institute that the solution to their problem was a submersible pump from the Grindex range.

Peter provided them with a Micro pump from the Drainage range – and the Institute has not looked back!

The Micro pump excels in applications where reliability and easy handling are essential. They are built to handle contaminated water, pH 3-9, and water containing relatively abrasive solids up to the size of 5 mm.

The reliability of the pump supplied was crucial as the pump would be unattended for long periods of time and needed to be self managing. Additionally as the pump is all stainless steel and polycarbonate, no sacrificial anodes were required.

Institute Site Services Manager Phil Fisher, said he was impressed with the Grindex Micro.

"I was completely surprised at the amount of water that it pump," said Phil. "It is a great pump".



**For more information on the reliable Grindex range, please contact your local sales representative or visit [sykesgroup.com](http://sykesgroup.com)**



# SYKES CAN SOLVE ANY QUARRY PROBLEM

Sykes were recently able to solve two vital issues at the Hanson Sand Quarry at Golden Grove, Adelaide, by providing them with a Dragflow HY35B and a CP150i water pump. These have resulted in the quarry being able to prolong its life as well as produce more product.

The CP150i (pictured top right) was purchased to replace a very old, manual prime pump which was moved around the site to pump water to various locations.

Workers previously entered the water to prime and set up the pump which was very time consuming. Two people were involved in order to mitigate OH&S issues.

Sykes South Australia Sales Representative, Peter Edwards, said they can now just pull up the pump and drop the hose into the water and then fire it up.

"Let's just say that the reduced work load and OH&S issues mean that they all love the new Sykes pump!" said Peter.

The Dragflow HY35B was purchased to dredge the silt dam which was fast becoming a problem.

"The dam is filled from waste water from the process plant and as you would expect, has a very high clay and mud mater in the product," said Peter. "In comes the Dragflow HY35B to the rescue".

Hooked to an excavator, they have placed it in the waste dam to pump the slurry from the dam into a drying area. Once the slurry dries, it is sold off to a local brick manufacturer as a raw material for their bricks.

Hanson Golden Grove Sand Quarry Manager Peter Richardson said it is a vital step in sand washing process and also provides a product that the brick production staff said makes great bricks.

"The Dragflow is pumping about 90% solids and to see it operate it is quite impressive," said Peter Richardson.

"In only four days of pumping, it dropped the dam level by 75mm, which was great."

"The Sykes pumps are just so easy to operate and both are doing exactly what Peter Edwards said they would, if not more!"



**DRAGFLOW**



# SYKES

## THE FRIENDLY NEIGHBOUR

**When a New Zealand construction company needed to replace a storm water drain, their main requirement was keeping noise to a minimum. The Sykes Quiet Solution ('QS') pump was the only solution.**

Although the customer had previously used Sykes pumps, they had never experienced the 'QS' and the site foreman, Ross, was extremely impressed with what the pump offered.

"These pumps are definitely what you would call 'neighbourhood' friendly," said Ross. "I can't believe how quiet and efficient they are. Outdoor workers from a nearby business even came over to see what was going on and couldn't believe that the pump was in place and working."

The QSVMXi provided was running 24/7 and proved its efficiency through miserly fuel consumption. The 'QS' units are visually tidy to view as well as safe as the pump parts are contained within the acoustic canopy.



**For more information on 'QS' units, please contact your local Sykes sales representative or visit [sykesgroup.com](http://sykesgroup.com)**



## Mine pump effectively collecting rain water

**When a Coal Mine in Central Queensland were looking for an environmental pump they came to Sykes for a quote to supply and install.**

Like all mines, their situation was that all rain water (unless it is a flood) had to be retained on site and used in the wash plant or pumped to evaporation dams. Their current solution was a mobile pump that had to be manually started and stopped – not an ideal solution when rain can begin and end at any time!

The pump offered was an Olympic CP150i with a 4BT Cummins Diesel Engine, auto start with a cascade panel and 48 hour double skin fuel tank.

As the pump could sit idle for long periods of time it was decided to install a tank with valving beside the unit, with enough water to allow the pump to be started manually at least once a month and run to recharge the batteries and ensure the pump is working okay.

During wet times the pump can be required to start any time day or night in order to protect the environment, because of this it is set up with automatic start via high and low level float switches and Cascade Panel on the engine. In addition the double skin tank makes certain that should the fuel tank be punctured the surrounding environment would not be adversely affected.



**For further information on the best pump solution for your mine contact your local sales representative or visit [sykesgroup.com](http://sykesgroup.com)**

# SYKES staff spectacular success shows stability

Sykes Group believes that a company is only as strong as the staff working for the business and indeed companies can often be judged by their staff turnover. This is why Sykes is so proud to congratulate our four staff members who have all been here for 20 years or longer.

**Bill Jenkins** heads the list and began with the company in July 1981 and he has been a vital part of the pump assembly team for many years. His ability to problem solve and train other workshop staff has been a valuable asset to the business.

**Bill MacDonald** commenced with Sykes in June 1988 as the Assistant Accountant and within a few years had been promoted to Administration Manager, the role he still holds today. He has a dual role as a Quality Assurance Inspector, to ensure that our pumps reach our customers with the highest levels of quality.

**John Rafferty** began in July 1988 and is currently the Team Leader Electrician. He has a dual role as a Quality Assurance Inspector to ensure that Sykes can guarantee that our pumps reach our customers with the highest level of quality ensured.

**Paul White** began with Sykes as a Machinist in February 1989 and since then has climbed the ladder to become a Leading Hand Machinist, Draftsman, Engineering Draftsperson and his current role, Production Manager. Paul is great at forming relationships with anyone, whether they are a supplier, a staff member or a customer.



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