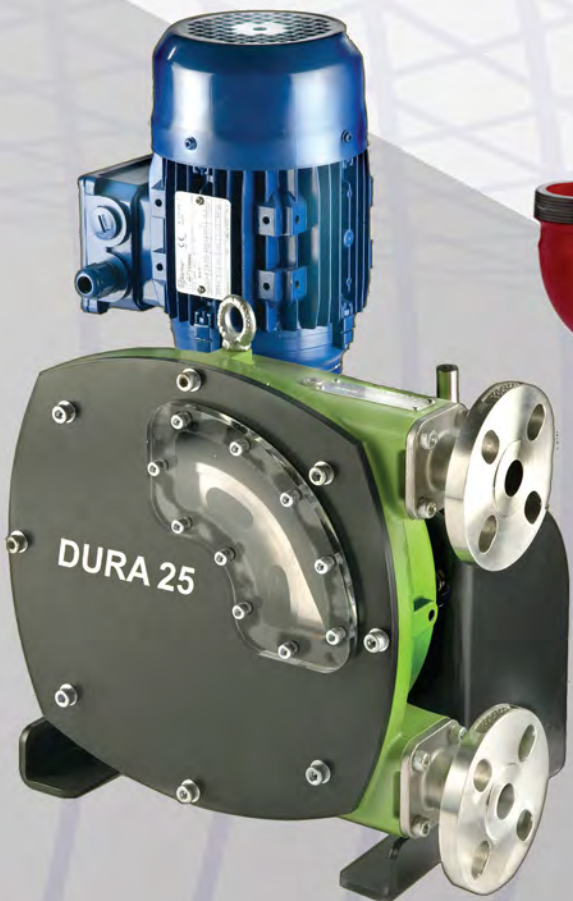




# HIGHLANDS

◦ MINING SUPPLIES ◦

Project Pumping Solutions

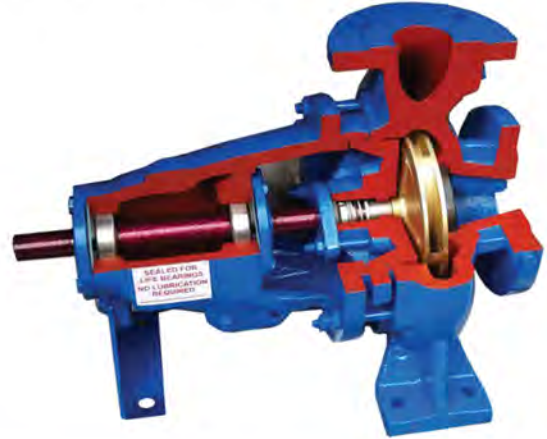


## Highlands Water Pump Range

The DN range of pumps complies fully with the international standard DIN 24255. This standard covers both performance and dimensions. This pump includes the back pull-out design, and when a suitable spacer coupling is fitted to a direct coupled unit, the casing and motor can remain in position while all other pump parts can be removed for simple and quick maintenance.

The volute casing is fitted with a replaceable wear ring and has a suction vane to give smooth flow into the double shrouded hydraulically balance impeller. Only three shaft assemblies are required to cover the total range, and this gives many common interchangeable parts for pumps fitted to the same shaft.

Standard pumps are fitted with a packed stuffing box incorporating a lantern ring which includes internal flushing by liquid being pumped, or can be converted to external flushing, and all of these pumps can be fitted with a mechanical seal. Pumps can be supplied as a bare shaft unit, or in many other arrangements, including complete with coupling, guard, baseplate and either electric motor or engine.



### APPLICATIONS

- Circulation of liquids
- Condenser water
- Heating water
- Irrigation
- HVAC

### CONSTRUCTION FEATURES

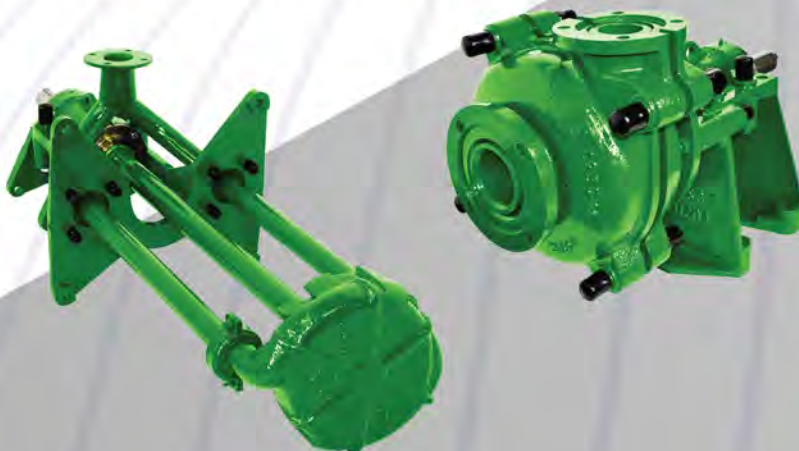
- Casing: Cast iron
- Impeller: Cast Iron, Bronze
- Shaft seal: Gland packing / mechanical seal
- Shaft: 2Cr13

## Highlands Slurry Pump Range

The challenge of designing, manufacturing and marketing a range of slurry pumps has been an exciting one. Key criteria to our success has been:

- Wear resistance in corrosive & abrasive slurries - improved materials.
- Extending wear life.
- Improving efficiencies.
- Cost effective solutions.

The Highlands range of pumps have been engineered to provide all of the above and more.



## Glandless Pump Range (No Product Leakages)

Verder has more than 40 years of experience in mag drive centrifugal pumps and are experts in choosing the suitable pump for your application. The series of mag drive centrifugal pumps from Verder consists of a wide range of both metallic and non-metallic pumps.



### FEATURES & ADVANTAGES

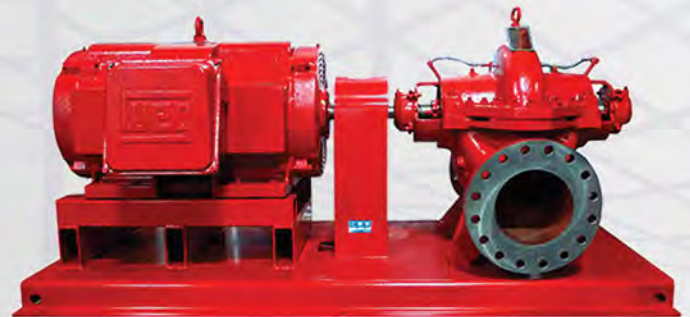
- Simple by design – fewer parts are used in the pump compared to conventional seal cartridges ensuring easy maintenance & assembly.
- Mag drive coupled – completely leak free.

### A SOLUTION IN THE FOLLOWING INDUSTRIES

- Chemical Industry: Acrylic acid, 50% aluminium chloride, hydrofluoric acid 50%, hydrogen sulphide 85%, sulphuric acid 98%, ammonia, phosphate & many others.
- Electronics Industry: Plating, etching, ferric chloride, hydrochloric acid 37%, sodium hydroxide 50%.
- Mining: Brine with uranium solids, H<sub>2</sub>O, soda ash, HCl.
- Galvanic Industry: Plating, etching, filtration.
- Pharmaceutical Industry: Sodium hydroxide 50%, caustic soda, hot oil, solvents.
- Steel Industry: Hydrochloric acid, pickling liquor, sulphuric acid.

## Solutions That Exceed Your Expectations

- Submersible pumps
- Water pumps
- Mag drive pumps
- Chemical pumps
- Acid pumps
- Flood lifter pumps
- Progressive cavity pumps
- Vertical turbines
- Multistage gland service pumps
- Gear pumps
- Fire pump systems
- Auto prime trash pump systems



# Safe Clean Water & Safe Sewage Treatment (Two Non Negotiables)

WEC Projects are expert suppliers of package water and sewage treatment plants. Every aspect of the project is completed in-house, from design through to manufacture to installation and commissioning. We also offer process assistance and full operation and maintenance contracts.

WEC Package Plant Key Features:

- Easy to Transport
- Heavy Duty
- Suitable for Remote Locations
- Modular
- Easy to Operate

## SEWAGE TREATMENT PLANTS

Design flow: 10 - 3000 kl/day (and higher)

The activated sludge sewage treatment plants are designed to achieve any discharge limit required. Factory built from of 6 mm mild steel, the plants are suitably stiffened for burying or standing at ground level. All mild steel surfaces are epoxy resin painted for corrosion protection. The plant is supplied with the required ancillary equipment and an MCC and dosing plant in a refurbished and lockable container. The plants can be fully automated or manually operated with minimal operator inputs.

## WATER TREATMENT PLANTS

Design flow: 5 - 500 kl/hour (and higher)

The conventional or membrane treatment plants are designed to be either containerised and/or modular. This ensures ease of transport for remote areas and efficient site installation on a suitable concrete foundation. The plants are designed to treat to the required output and typically have reserve capacity built in to absorb ad-hoc increases in demand. The plants can be fully automated with PLC and touch screen HMI/SCADA, or manually operated minimal operator inputs.



◦ MINING SUPPLIES ◦

Project Pumping Solutions

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