CP Pump

- Ideal for drawing water from wells, dams, creeks or shallow bores
- The materials of construction provide a high resistance to alkalis, organic chemicals, oils, septic effluents and domestic or industrial waste.
- The CP Brine Injection unit for meat curing can be found in nearly every butchers shop in the country.
- The gentle pumping action makes the CP range a favourite in wineries for wine transfer duties.

Features & Benefits

<table>
<thead>
<tr>
<th>Feature</th>
<th>Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single mechanical seal</td>
<td>Low maintenance</td>
</tr>
<tr>
<td>Self priming up to 6m</td>
<td>High suction lifts</td>
</tr>
<tr>
<td>Tough engineered grade acetal co-polymer plastic housing</td>
<td>Long lasting, low replacement costs</td>
</tr>
<tr>
<td>Stainless steel internal rotating parts</td>
<td>Corrosion free, long life</td>
</tr>
<tr>
<td>Close coupled drive arrangement</td>
<td>Compact in size</td>
</tr>
<tr>
<td>Simple and easy to maintain</td>
<td>Low maintenance</td>
</tr>
<tr>
<td>Integral mounting bracket</td>
<td>Ease of installation</td>
</tr>
<tr>
<td>Tropical proof motor as standard</td>
<td>Can be installed outside</td>
</tr>
<tr>
<td>BSP threaded port connections</td>
<td>Ease of installation</td>
</tr>
<tr>
<td>Stainless steel fasteners</td>
<td>Long Life</td>
</tr>
<tr>
<td>Bareshaft options</td>
<td>Optional drive selections</td>
</tr>
</tbody>
</table>

Capacity          up to 2.08 lps
Heads             up to 28m
Motor Options      240v and 415v
Maximum Speed      1450 rpm

Typical applications include:

- Milk
- Honey
- Food colour
- Fruit juice
- Wine
- Detergents
- Mustard
- Domestic water supply
- Septic effluent
- Brine injection for meat curing
- Oily water
- Molasses transfer stock feed
The Great Little All Rounder

Close Coupled Pump
Molasses Feed Pump
Brine Injection Unit
Shallow Bore

For pressures above 28 metres contact Mono Pumps Technical.
ASP Range Surface Pump

- Stainless steel wear resistant rotor with hard chrome plating and stainless steel shaft for corrosion-free long life
- Titanium Tuff Flexishaft® for improved strength, corrosion resistance and a shorter pump
- The Mono ASP has excellent self priming and suction capabilities
- Energy saving efficient pump design. The Mono ASP Motorotor® gets the most out of any power bill

Features

- Sand, Silt Tolerant
- Easy Priming
- Long Delivery
- Consistent Flow vs Head
- Shallow Wells

Applications include:

- Tank Filling
- Stock Watering
- Dam Water
- Creek Water
- Shallow Wells

Complete Packaged Systems:

Diesel:
Available with either Yanmar or Kubota diesel motors.

Petrol:
Honda petrol motor.

Electric:
240V / 480V - 1 phase
415V - 3 Phase

Package Includes:

- Pump
- Motor
- Clutch
- Belt & Pulleys
- Galvanised Base
- Safety Guard

Positive Drive Shaft
High quality, robust, keyed drive for positive power transmission.

Bearing Housing
Industrial strength bearings are easy to get at and maintain.

Secure Seals
Simple, single mechanical seal.

Turbulence Stops Here
High capacity discharge chamber for smooth flow.

4-Way delivery is possible - left, right, up or down to suit your connections.

Stainless Steel Barrel
Corrosion resistant for longer life.

Titanium Flexishaft
Strength Eliminates coupling wear, friction and corrosion.

Rotor & Stator
These capsules of water spiral smoothly through your Mono ASP as the stainless steel rotor gently revolves against the rubber stator.

Close Coupled Motor
Effectively one moving part from motor to rotor for maximum energy efficiency, strength and simplicity.
Performance Data

4 POLE - 1450 rpm

6 POLE - 960 rpm

BARESHAFT PUMP

TITANIUM TUFF
AGM Range Longhaul Surface Pumps

- Rugged, high capacity pumps with heavy duty bearing housings
- Stainless steel wear resistant rotor with hard chrome plating and stainless steel shaft for corrosion-free long life
- The Longhaul’s high efficiency means low running costs
- Simple construction works within a forgiving range of tolerances, maintaining reliability, performance and efficiency
- Strength to withstand high heads and long pumping hours decade after decade
- Control the flow and speed of your pump by simply changing the pulley size

Choose your drive:

**Diesel:**
The low-revs pumping capacity of the Longhaul will deliver maximum water for least fuel

**Petrol:**
Throttle out for more water. Throttle in for lower speed and lower volume. It is that simple

**Bareshaft:**
The straightforward pulley drive lets you attach to whatever drive you have available

**Electric:**
Value out of your power bill. Longhaul will push water even when turning slowly - an advantage for those with fluctuating power supply

**Features & Benefits**

<table>
<thead>
<tr>
<th>Capacity</th>
<th>0.33 to 14 lps</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heads</td>
<td>up to 300 m</td>
</tr>
</tbody>
</table>

Typical applications include:
- Tank filling
- Stock watering
- Sprinklers
- Long distance water transfer

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Gland Packing
AGM models have robust gland packing rings.

Positive Drive Shaft
High quality, robust, keyed drive for positive power transmission.

Easy Bearing Maintenance
Industrial strength bearings are easy to get at and maintain.

Stainless Steel Flexishaft
Forms one moving part with the rotor to eliminate coupling wear, friction and corrosion.

4-Way delivery
Is possible - left, right, up or down to suit your connections.

Rotor & Stator
These capsules of water spiral smoothly through your Mono Longhaul as the stainless steel rotor gently revolves against the rubber stator.
Performance Data

![Graph showing performance data for various fuel types: Petrol, Diesel, Electric. The graph plots flow rate against head in total metres for each fuel type, with different models indicated by shaded areas.]
**Subrotor® Submersible Pump**

- Ideal for pumping from bores containing iron oxides
- Cheaper to run
- High head ... Less horsepower
- Stainless steel
- Abrasion resistance
- Simple construction
- Just one moving part does all the pumping
- Easy to repair
- Rotor / stator self cleaning and ensures no algae or oxide deposits ... No clogged pump impellers
- More pump for your money

**More Flow at Higher Heads**

The Mono system doesn’t just spin water along. It pushes encapsulated water with positive force, so that ample volume is maintained at high heads.

**More Water, Lower Energy Bills**

Mono Subrotor pumps waste the least possible energy on internal friction, especially compared to multi-stage and jet pumps.

**Easy Maintenance**

Unlike centrifugal pumps, the Subrotor has only one moving pump part - the rotor. Its companion, the rubber stator is also very resistant to wear and can easily be replaced with just a wrench.

**Self Cleaning**

The rotor sweeps the full surface of the rubber stator every turn. It is impossible for growth or iron oxide deposits etc. to develop on the surface. “No clogged pump impellers”.

**Chrome Plated Rotor**

Mono chrome plated, stainless rotors are up to 4 times harder than the stainless you find in centrifugal pumps.

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**Foot Valve**

Designed specifically to prevent leakage and loss of pipeline water, with minimum restriction to the pump outlet. Includes an anti-rotation pin to eliminate spindle wear.

**Rotor / Stator**

The Mono Pump rotor and stator optimises abrasion resistance through in-house manufacturing and stringent quality control procedures.

The rotor form and low interference results in excellent hydraulic performance and reduced breakout torque.

**Flexishaft**

The flexishaft is manufactured from toughened materials using a specific Mono process and is covered by chemically inert, abrasion resistant coating.

**Stabilisers**

A unique Mono development to centralise the pump element while eliminating vibration.

**Motor Coupling**

Seals flexishaft connection whilst allowing easy removal from motor during maintenance.

**Motor**

Standard 2 pole 100mm (4”) fully submersible motor. Available in single or three phase power.
The Mono® Subrotor pump offers the first real alternative to multi-stage centrifugal borehole pumps.

Unlike the conventional borehole pump which uses centrifugal force as the energy to move the water, the Mono Subrotor uses the progressing cavity rotor/stator principle to draw water up through it.

When the hard chrome plated rotor fits inside the rubber stator the two components touch and form a seal bead, behind which a sealed capsule is formed, which moves from the suction side to the discharge of the pump as the rotor rotates inside the stator. The liquid within the capsule is delivered so positively that the pump is capable of very high pressure.

The Mono pumping principle was invented in the 1930's, and has continued to be developed and refined to meet the increasing needs of the world’s pumping industries.

The progressing cavity principle is one of the most efficient and reliable methods of pumping water ever. The design principle ensures that the pumps are also extremely reliable, particularly on borehole water with a silt or iron oxide content.
Lineshaft Borehole Pump

The Mono Borehole pump is the essence of simplicity in design.

The simple positive displacement, Mono designed rotor and stator are immersed below draw-down level in the bore or well. The motor and drive head are located at ground level for easy inspection, maintenance and installation.

- Suitable for all types of underground waters - whether sand or silt, brackish or corrosive
- Stainless steel shafting and column is available for brackish applications
- Special purpose corrosive water pumps are available for special applications.
- Available with a quarter twist drive head or where space is an issue, right angle drive head

Features & Benefits

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<tr>
<td>Capacity</td>
<td>14 lps</td>
</tr>
<tr>
<td>Heads</td>
<td>up to 300 m</td>
</tr>
<tr>
<td>Motor Options</td>
<td>Petrol, Diesel, Electric or PTO</td>
</tr>
</tbody>
</table>

Typical applications include:

- Stock watering
- Village water supply
- Irrigation
- Tank / Dam filling

BOREHOLE PRESELECTION CURVE

- LITRES PER SECOND vs. HEAD IN TOTAL METRES
- GALLONS PER HOUR
**Combined Discharge & Drive Head**

Discharge heads are compact, robust and weatherproof. All feature grease lubricated pre-packed or sealed bearings. Two designs are available - vertical shaft models for electric or quarter twist diesel drive and right angle for PTO or compact side mount diesel.

**Column**

Columns are available in 3 metre lengths manufactured from heavy duty galvanised pipe. Connection is by Mono’s exclusive precision parallel threads producing a strong watertight joint.

**Patented Bobbin or Spider Bearings**

Simple, efficient and above all, long wearing, even under abrasive conditions. Short bobbin bearing shafts made of stainless steel run in bobbins to totally eliminate wear on the main drive shaft.

**Drive Shaft**

Drive shaft is supplied in equivalent lengths with rolled threads for maximum torque transmission. You have the option of carbon steel or stainless steel shafting depending on the quality of water.

**Column Stabilizers**

A unique Mono development. Supplied to support the discharge column in relation to the borecasing, thus eliminating vibration and ensuring the discharge column is always accurately centered.

**Rotor / Stator Pumping Element**

Perfected after many years of Mono worldwide development and research.

**Strainer with Foot Valve**

Designed specifically to ensure efficient lubrication of the column to prevent leakage and loss of pipeline water with minimum restriction to the pump inlet.

**NOTE:** Safety guards have been removed for display purposes. Mono Pumps supply and recommend safety guards be used on all vee-belt drive arrangements.