

# MONO PUMPS

A National Oilwell® Company

## Sun-Sub®

Stainless Steel Solar Powered  
Submersible Pump



*The New Generation  
Solar Pumping Systems*



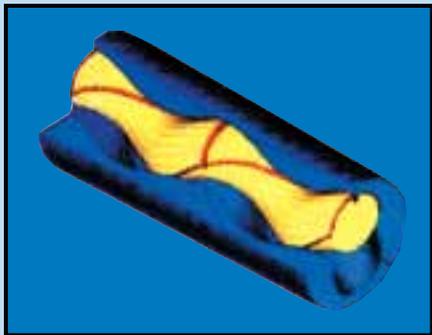
*Water is a hub of life*

**Mono®**

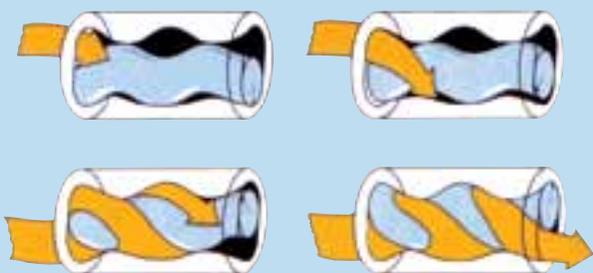
# THE MONO PUMP

Since Mono's conception in 1935, our progressive cavity pumping principle has been proven through many years of experience. For solar pumping applications, the Mono progressive cavity pumps ability to pump water, even when running at low speeds (early morning and late afternoon) means quite simply, that it is possible to generate more water per day for a given array than systems using rotodynamic pumping methods which only generate heads at high running speeds.

At the heart of all Mono Pumps solar water pumping systems is the unique pumping system itself. The design consists of just two complementary pump components, the Rotor and the Stator. The geometry of these two components is the key to the pump operating system.



When the hard chrome plated rotor lays inside the rubber stator, the two components touch along a ribbon of contact called the seal line, behind which is a sealed capsule of liquid which moves from suction to discharge in a positive manner as the rotor rotates inside the stator. In the design of the new generation Sun-Sub, the rotor form and low interference results in excellent hydraulic performance and reduced breakout torque.



## 1. 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.

## 2. Rotor / Stator

The rotor is made from 316 stainless steel material and is hard chrome plated to optimise abrasion resistance.

The rubber stator is soft allowing the grit particles to be depressed into its surface and then spring out again as the rotor seal line moves across its surface.

## 3. Flexishaft

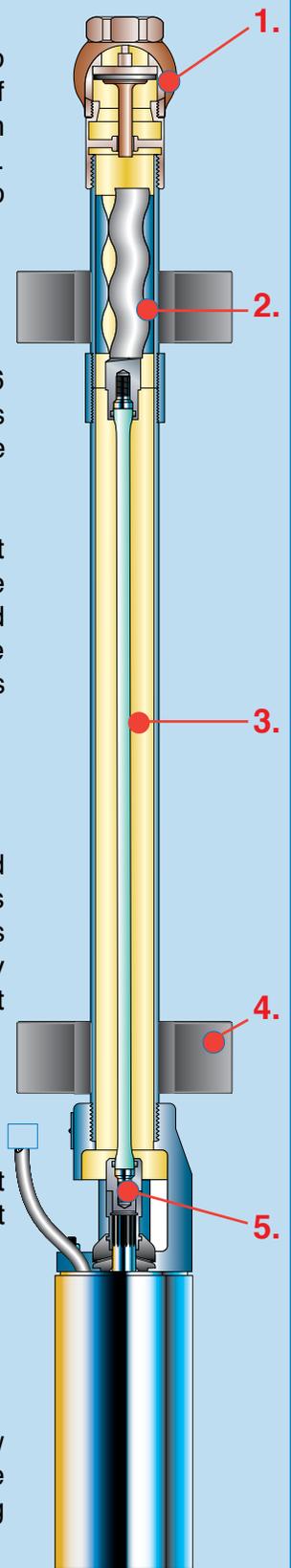
The flexishaft is manufactured from toughened materials using a specific Mono process and is covered by chemically inert, abrasion resistant coating.

## 4. Stabilisers

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

## 5. Screwed Shaft Connection

Direct flexishaft screw connection allows simple removal from motor during maintenance.



*Water is a hub of life*

**DAR HUDUMA HARDWARE**

P.O.BOX 4282

Dar es Salaam, Tz

Tel: +255 784 785 453 / +255 717 189 227 / +255 784 823 034

E-Mail: dar\_huduma@yahoo.com

Website: www.darhudumahardware.com

Sole distributors of Mono Pumps (Australia)