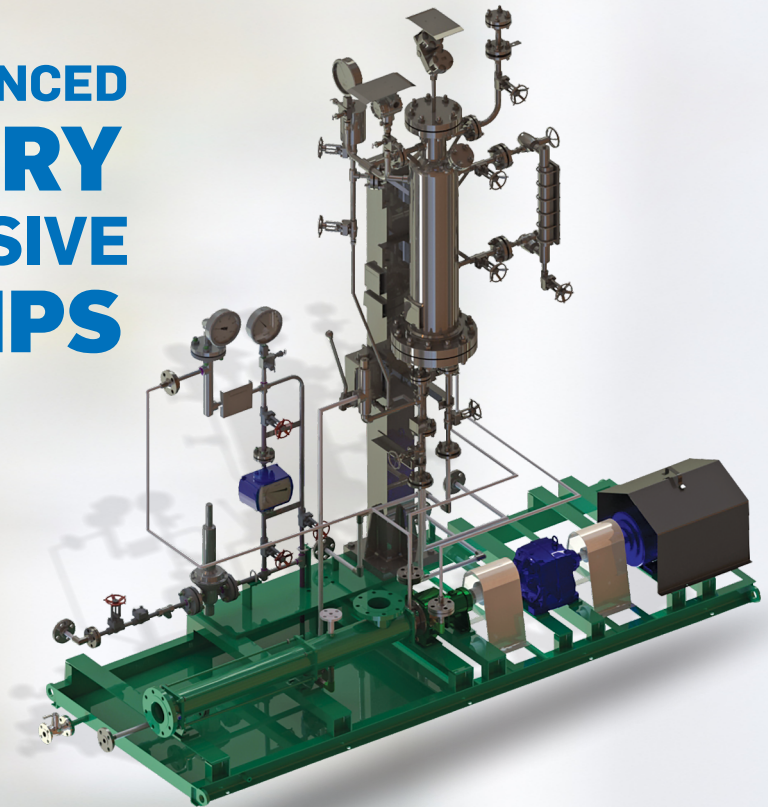


# STREAMLINING ENHANCED OIL RECOVERY WITH PROGRESSIVE CAVITY PUMPS



## The following is a brief overview of the Enhanced Oil Recovery technology currently in use:

Primary Oil Recovery is limited to hydrocarbons that naturally rise to the surface, or those that are brought to the surface using artificial lift devices, such as various Down Hole Pumps.

Secondary oil recovery employs water and gas injection, displacing the oil and driving it to the surface.

Further increase in oil production is through the tertiary recovery method or Enhanced Oil Recovery (EOR). EOR can increase production from a well by up to 75%.

In this technology, the polymer is injected into the reservoir to reduce interfacial tension between Oil & water and is able to draw out the trapped oil from the reservoir rock thus increasing the oil production.

### Solution

Roto Progressive Cavity Pumps are manufactured in accordance to API 676, incorporating sealed sealing system as per API 682. These pumps are widely used for polymer flooding. Roto Pumps are designed for handling high viscosities and can easily handle shear-sensitive polymers due to its low internal velocities, thus preventing degradation of shear-sensitive polymers.

### Applications

Mother solution  
Polymer transfer\*  
Polymer injection

## Roto Pumps conform to the following standards:

- **API 676 3<sup>rd</sup> edition rotary positive displacement pumps**
- **API 682 4<sup>th</sup> edition mechanical seals**
- **Material as per NACE MR-01-75**
- **ATEX Directive 94 / 9 / EC**
- **API 671 metallic flexible coupling and spacer**
- **Pressure relief valves to API 520 / 526**



### Industrial RD/RM Series

Capacity up to **500 m<sup>3</sup>/hr**  
Pressure up to **48 bar**

These heavy duty pumps are designed for continuous or intermittent duty and are suitable to perform efficiently even for the most difficult fluid handling applications.

\*Max. pressure available up to 76 bars with capacity up to 25 m<sup>3</sup>/hr