



## Diesel Engine Driven ROTAN<sup>®</sup> Positive Displacement Rotary Internal Gear Pump

For a Wide Range of Oil and Petroleum Fluids

# DIESEL ENGINE DRIVEN

ROTAN® Positive Displacement Rotary Internal Gear Pump  
for a Wide Range of Applications and Handling of  
Oil and Petroleum Fluids



At DESMI you can find the perfect solution for handling high viscosity and other difficult liquids in remote areas where electric power supply is unstable or unavailable.

The systems are delivered with a variable flow control capable of matching the supply and the receiving end demand. At the same time the system is capable of handling fluids with viscosities ranged from 1 cSt to 250,000 cSt.

All systems can be used as portable mobile units or mounted on a mobile truck. Permanent installation is also an option.

When choosing a diesel engine driven system from DESMI with our well-know ROTAN® pump, you get a pump solution that can handle various liquids, like:

- Bitumen
- Asphalt
- Lubricating oil and additives
- Paints and inks
- Various grades of fuel oil
- Chemicals
- Resin and polymer
- Palm oil, glycol, and bio-fuel
- Chocolate
- Etc.

## DESMI ROTAN® - Superior Self-priming Capability and Gentle Liquid Handling

DESMI manufactures a series of ROTAN® pumps. DESMI ROTAN® HD is available in cast iron material and it is the most suitable pump for non-corrosive highly viscous liquids. The pump is available in sizes from 1" to 8". The stuffing box of the pumps can be equipped with mechanical shaft seal or soft packing and if heating is required, the pumps can be provided with heating jacket or electrical heaters.

DESMI ROTAN® CD is delivered in 316 stainless steel material. It is the most suitable pump for chemicals, acids, and many other corrosive and highly viscous liquids. The CD pump is available in sizes from 1" to 8" and the stuffing box of the pumps can be equipped with mechanical shaft seal or soft packing.

If heating is required, the pumps can be provided with heating jacket or electrical heaters.

When the DESMI ROTAN® pump is delivered as a skid mounted diesel engine driven system, the complete system can be equipped with:

- Manual hand clutch
- Drive shaft or flexible coupling
- Speed step down device - Gear reducer or belt and pulley
- Spark arrestor and exhaust silencer
- Air shut-off valve
- 12V, 24V battery or manual recoil crank start
- Fuel tank with sight level gauge
- Engine control panel with gauges and meters



ROTAN® CD - Stainless Steel



ROTAN® HD - Cast Iron



Capacity Range: Up to 170 m<sup>3</sup>/h/748 gpm  
Speed: Up to 1750 rpm  
Differential Pressure: Up to 16 bar/232 psi  
Suction Lift:  
Up to 0.5 bar/7.25 psi vacuum while priming  
Up to 0.8 bar / 11.6 psi vacuum while pumping  
Viscosity Range: Up to 250,000 cSt  
Temperature: Up to 250°C/482°F



Capacity Range: 250 m<sup>3</sup>/h/1100 gpm  
Speed: Up to 1750 rpm  
Differential Pressure: Up to 16 bar/232 psi  
Suction Lift:  
Up to 0.5 bar/7.25 psi vacuum while priming  
Up to 0.8 bar/11.6 psi vacuum while pumping  
Viscosity Range: Up to 250,000 cSt  
Temperature: Up to 250°C / 482°F

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