

Reciprocating Beam Pumping Unit for Oil Extraction

This unit extracts crude oil from wells without sufficient reservoir pressure for natural flow. The surface-mounted reciprocating pump connects to a downhole pump via a sucker rod string.



Overview

Efficient Artificial Lift Solution

The Reciprocating Beam Pumping Unit is a robust artificial lift system designed for the oil and gas industry to extract crude oil from wells with insufficient reservoir pressure. This surface-mounted unit utilizes a motor and gearbox to convert rotary motion into reciprocating motion, effectively driving a downhole pump via a sucker rod string. Constructed from high-quality steel, it provides a reliable and durable solution for continuous oil production in various field environments.

Technical Principles

Operation Mechanism

- Surface-mounted reciprocating pump system
- Rotary-to-reciprocating motion conversion via gearbox
- Power transmission through sucker rod string
- Downhole pump activation for oil lifting

Design & Construction

Surface Finish

Painted Red

Primary Material

Steel

Application

Industry Application

Oil & Gas, Artificial Lift, Crude Oil Extraction

Installation Site

Active oil well sites (Field-situated)