

## Solution for Oil Pump

### Equipments Introduction:

Currently walking-beam pumping unit is one of the main oil pump unit. It consists of traction head- walking beam- connection rod- crank gear, reduction box, power equipment and auxiliary devices and so on.

On operation status, motor starts traction and goes through the reduction box, crank gear, then turns into the up and down movement of the traction head. Traction head pull the plunger of oil pump in well up and down movement through the connection rod and sucker rod and make the crude oil come out of the well constantly.



### Characters:

Walking-beam pumping unit is reliable, simple structure and convenient operation and maintenance.

- 1、 Unit with reasonable structure 、 reliable run 、 low noise 、 convenient operation and maintenance;
- 2、 Walking-beam is of box-type or joist steel structure, with high intensity, good stiffness and bearing capacity
- 3、 Reduction box adopt herringbone evolvent and double circle-arc tooth form gear. It can achieve high machining precision, strong bearing capacity and long lifetime.

- 4、 Traction head can perform the movement with the one of the upturning, up-hanging and side-turning.
- 5、 Braking is of anti-embrace structure, assembled insurance unit with flexible operation, fast braking, safe and reliable performance;
- 6、 Chasis adopt one of the foundation bolt connection or small bridge connection.



(Double traction heads oil pump)



(Band-type oil pump)

Application conditions:

In actual application, energy feedback unit (brake unit or resistance) should be added to avoid piston rod's down speed driven by traction head over the motor run speed to generate electricity to impact inverter.

Parameter setup:

F0.00=00      F0.02=1      F0.08=60      F0.09=60      F9.01=10      F9.02=5  
F9.04=120    F9.09=200    F9.11=1

Connection Mode: (see connection diagram as below)





