

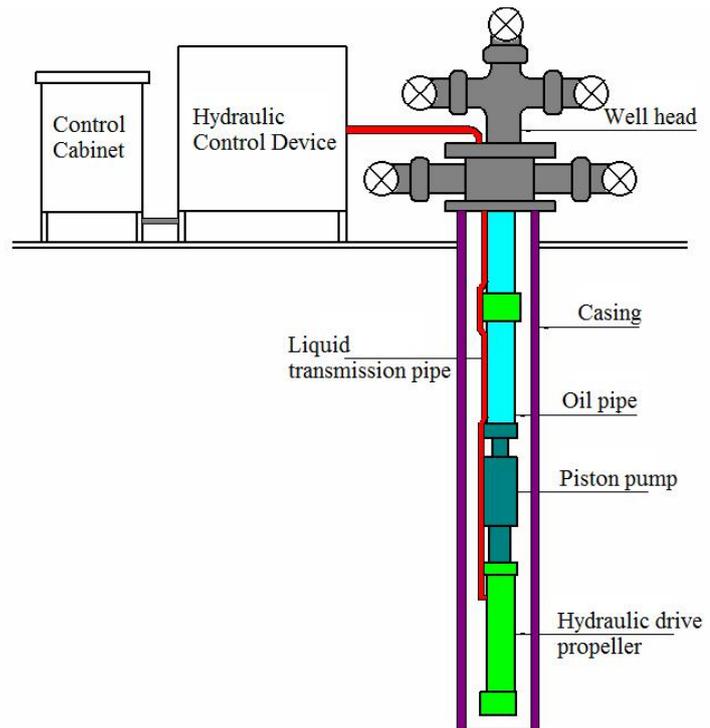
## Hydraulic Drive Rodless Oil Production System

### I. System Main Parts

Hydraulic drive oil production system includes: control cabinet, hydraulic control device, liquid transmission pipe, hydraulic drive propeller and plunger pump.

### II. Basic Principle

The electric cabinet controls ground hydraulic control device, generates high voltage energy, and push the hydraulic drive propeller to reciprocate a linear movement using hydraulic oil as medium, so as to drive the piston pump to reciprocate, and to lift crude oil from the bottom of well to the ground.



### III. Movement Features

- The plunger pump fixed valve is placed upwards, without any stroke loss; the pump punch is very small, and pump efficiency could reach above 95%;
- A closed circulation is formed; no leakage point of oil liquid, no loss of liquid, ultra-remote transmission. There's no joint or leakage in the middle of the liquid transmission pipe.
- Closed pipeline, without leakage.

### IV. Adaptable Mediums

Adaptable to crude oil lifting in deep wells such as straight wells, inclined wells and horizontal wells etc.

### V. Technical Parameters

System parameters

Model	Hydraulic Drive Propeller	Pump Setting (m)	Stroke (m)	Frequency of Stroke (min-1)	Displacement (m <sup>3</sup> /d)
YQB-150TH- D	40/28	≤1000	1.24	0.1-2	3
YQB-175TH- D	40/28	≤1000	1.24	0.1-2	4
YQB-225TH- D	50/30	≤800	1.24	0.1-2	7
YQB-275TH- D	50/30	≤800	1.24	0.1-2	9
YQB-225TH- S	50/32	≤500	1.5	0.1-2	10
YQB-150TH- H	63/45	≤1500	2	2	6.52
YQB-175TH- H	63/45	≤1500	2	2	8.94
YQB-225TH- H	63/45	≤1500	2	2	14.76

Liquid transmission pipe

Specification	Wall Thickness (mm)	Max. Continuous Length (m)	Materials	Pressure (MPa)
3/8"	1.25/1.5	5000	316L	50
1/2"	1.25/1.5	5000	316L	50
5/8"	1.5/2	5000	316L	50
3/4"	1.5/2	5000	316L	50

Hydraulic drive propeller

Model	Thrust (N)	Push Travel (m)	Adaptable Temperature (°C)	Suitable Casing (in)	Functioning Type
40/28	16014	1.24	120	5 1/2	Single-action
50/30	31400	1.24	120	5 1/2	Single-action
63/455	45000	2	120	5 1/2	Single-action
50/32	28790	1.5	120	5 1/2	Double-action



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