

DQ Top Drive

General Features

- Manufactured according to API 8C
- Both hydraulic drive and electric drive type available
- Single drilling distance: 28 m, shorten the time for make-up/break-out by 2/3
- Equipped with remote controlled internal blowout prevent device
- Single/Double motor drove mode switch easily
- Suitable for onshore or offshore rigs
- High level of automatic control, program running reliable



Details

The DQ series top drives were developed to provide the market with more reliable technology and more hoisting performance. Advanced variable frequency AC motor drive technology adopted, which has accurate controls of torque and speed. The electric drove system is more flexible and reliable. Compared with the traditional rotatory table drilling operation, it has the advantages of faster drilling, higher production ratio, and lower cost. Included but not limited by the advantages mentioned, the DQ series of top drives might be your best choice.

Parameters:

AC Powered Top Drive and Hydraulic Top Drive available

Please refer to the parameters on the next page.

AC Powered Top Drive

Model	DQ-40E	DQ-50E	DQ-70ES	DQ-40EQ	DQ-20E
Drive model	AC VFD	AC VFD	AC VFD	AC VFD	AC VFD
Rated Drilling Depth	4000m	5000m	7000m	4000m	2000m
Rated Load Capacities (ton)	250ton	350ton	500ton	250ton	1350kN
Power Supply	600VAC/50HZ	600VAC/50HZ	600VAC/50HZ	600VAC/50HZ	600VAC/50HZ
Rated Power (hp)	315W	375KW	295kw*2	375KW	250KW
Rotary Speed	0~180r/min	0~180r/min	0~230r/min	0~180r/min	0~180r/min
Drilling Torque(continuous)	0~ 33KN.m	40KN.m	55KN.m	0~ 40KN.m	26kN.m
Max.Torque of Break Out	50KN.m	60KN.m	82KN.m	60KN.m	39kN.m
Backup Tong Range	87~216mm	87~216mm	87~216mm	87~216mm	87~216mm
Hydraulic System Working pressure (Psi)	16MPA	16MPA	16MPA	16MPA	16MPA
Rated Pressure of IBOP	70MPA	70MPA	70MPA	70MPA	70MPA
Mud Circulating Diameter	62mm	75mm	75mm	75mm	62mm
Rated Circulating Pressure	35MPA	35MPA	35MPA	35MPA	35MPA
Max.distance between Main Shaft Center ar	570mm	705mm	930mm	650mm	463mm
Main Body Height	4.8m	5m	5.5m	5.2m	4m
Ambient Temperature	-45~55°C	-35~55°C	-35~55°C	-35~55°C	-45~55°C

Hydraulic Top Drive

Model	DQ-40H	DQ-20H
Drive model	Hydraulic	Hydraulic
Rated Drilling Depth(m)	4,000(114mm/drill pipe)	2,000(114mm/drill pipe)
Rated Load Capacities (ton)	250	150
Power Supply	380VAC/50HZ	380VAC/50HZ
Rated Power (hp)	540	400
Rotary Speed (RPM)	0-180	0-180
Drilling Torque(continuous)(lbf.ft)	25,800	18,500
Max.Torque of Break Out (lbf.ft)	36,000	36,000
Backup Tong Range (in)	3-1/2~10-1/2	3-1/2~10-1/2
Hydraulic System Working pressure (Psi)	5,000	5,000
Assistant Hydraulic System Working Press	2,280	2,280
Rated Pressure of IBOP (Psi)	10,000	10,000
Mud Circulating Diameter (in)	2002/1/2	2002/1/2
Rated Circulating Pressure(Psi)	5,000	5,000
Max.distance between Main Shaft Center ar	23.1	23.1
Main Body Height	3.8m	3.6m
Ambient Temperature	-35~55°C	-35~55°C