



HONG HUA AMERICA, LLC

Top Drives



Design Standards:
The product is designed in accordance with API Spec 8C-2003 (4th version)



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HH TOP DRIVE drilling system from Honghua group are designed for the heaviest duty, highest performance and reliability in drilling application.

HH TOP DRIVE uses a variable AC motor developed by **Honghua's subsidiary HongTian (HT)** that eliminates the need for a gear box, lubrication system and associated bearing, gearing and seals problems. The result is a low maintenance, high performance top drive, high reliability for high-torque drilling application. The Top Drive will be available in 250, 500, 750 and 1000 Ton models.



Features

- Direct drive by AC motor that eliminates the need for a gear box, lubrication system and associated bearing, gearing and seals problems.
- The modular design of the top drive can be assembled, maintenance and replaced easily on the rig, then to reduce downtime and maintenance time.
- Direct Drive AC motor provide the higher-torque in short period of time that improve the drilling efficiency.
- The High-volume air cooling system help to withstand temperatures associated with continuous operation and increase efficiency and durability.





DQ225DBZ Top Drive



Specification

Type of Drive	Direct Drive by AC VFD motor
Drilling Depth (API 8C)	4000m (13,000ft)
Maximum hook load (API 8C)	2250KN (250Ton)
Range of rotation speed	0-220 r/min
Operation torque	25,000N.m (18,440 lb.ft)
Maximum makeup and breakout torque	45,000N.m (33,200 lb.ft)
Brake torque	35,000N.m (25,800 lb.ft)
Rated power of electric motor	288KW (380HP) – single set
Back-up tong clamping range	86-197mm (3 3/8" - 7 3/4")
Hydraulic system pressure	16Mpa (2300psi)
Nominal working pressure of central pipe	35Mpa (5000psi)
Rotary hose connection welded union	4-FIG1002,SR
Top drive weight	12.3 tons
Top drive dimension	5300mm X 1900mm X 1850mm

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DQ450DBZ Top Drive

Specification

Type of Drive	Direct Drive by AC VFD motor
Drilling Depth (API 8C)	7000m (22,000ft)
Maximum hook load (API 8C)	4500KN (500ton)
Range of rotation speed	0-220 r/min
Operation torque	45,000N.m (33,750 lb.ft)
Maximum makeup and breakout torque	75,000N.m (55,000 lb.ft)
Brake torque	50,000N.m (36,800 lb.ft)
Rated power of electric motor	580KW (770HP) – single set
Back-up tong clamping range	86-197mm (3 3/8" - 7 3/4")
Hydraulic system pressure	16Mpa (2300psi)
Nominal working pressure of central pipe	35Mpa (5000psi)
Rotary hose connection welded union	4-FIG1002,SR
Top drive weight	15.85 tons
Top drive dimension	5700mm X 2180mm X 2090mm



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DQ675DB Top Drive

Specification



Design Standards:

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Type of Drive	Direct Drive by AC VFD motor
Drilling Depth (API 8C)	9000m (29,000ft)
Maximum hook load (API 8C)	6750KN (750ton)
Range of rotation speed	0-220 r/min
Operation torque	70,000N.m (51,630 lb.ft)
Maximum makeup and breakout torque	125,000N.m (92,200 lb.ft)
Brake torque	70,000N.m (51,630 lb.ft)
Rated power of electric motor	900KW (1200HP) – single set
Back-up tong clamping range	86-216mm (3 3/8" - 8 1/2")
Hydraulic system pressure	16Mpa (2300psi)
Nominal working pressure of central pipe	35Mpa (7500psi)
Rotary hose connection welded union	6-FIG1002,SR
Top drive weight	18.5 tons
Top drive dimension	6700mm X 2720mm X 2370mm





DQ900DB Top Drive

Specification



Design Standards:

The product is designed in accordance with API Spec 8C-2003 (4th version)

Type of Drive	Direct Drive by AC VFD motor
Drilling Depth (API 8C)	12,000m (39,000ft)
Maximum hook load (API 8C)	9000KN (1000ton)
Range of rotation speed	0-220 r/min
Operation torque	90,000N.m (66,380 lb.ft)
Maximum makeup and breakout torque	135,000N.m (99,570 lb.ft)
Brake torque	90,000N.m (66,380 lb.ft)
Rated power of electric motor	1130KW (1500HP) – single set
Back-up tong clamping range	86-216mm (3 3/8" - 8 1/2")
Hydraulic system pressure	16Mpa (2300psi)
Nominal working pressure of central pipe	35Mpa (7500psi)
Rotary hose connection welded union	6-FIG1002,SR
Top drive weight	20.1 tons
Top drive dimension	7100mm X 2720mm X 2370mm

