

01 · ELECTRIC DRIVE & CONTROL

Electric Drive and Control System of Drilling Rig

Power management, drive, MCC and control: the complete electrical chain of a drilling rig.

3000–12000 m

DRILLING DEPTH

DC · AC

DRIVE OPTIONS

60%+

SINOPEC MARKET SHARE

30+

COUNTRIES SERVED

SYSTEM ARCHITECTURE · FOUR SUBSYSTEMS

01 Power management system

VFD fed by diesel generator sets or the HV grid.

02 Drive system

DC or AC drives for mud pumps, drawworks, rotary table, top drive.

03 MCC system

Auxiliary motors, lighting and well-site power supply.

04 Control system

PLC system, industrial computer, HMI, etc.

PRODUCT SCOPE

HD-PRD-FLY-01-01

DC Control System

HD-PRD-FLY-01-02

ROSSHILL 1400 Control System

HD-PRD-FLY-01-03

Drilling Rig VFD Control System

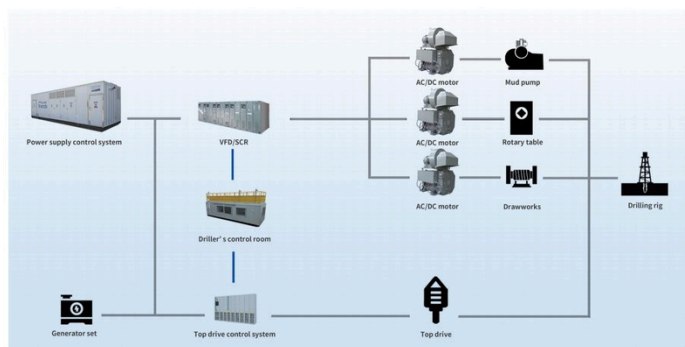
HD-PRD-FLY-01-04

Top Drive Control System

HD-PRD-FLY-01-05

Mud Pump Control System

SYSTEM DIAGRAM · RIG ELECTRICAL CHAIN



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