

05 · ELECTRIFIED RETROFIT

Electrified Retrofit of Mechanical Rigs

From diesel engine drive to electric drive: higher efficiency, lower drilling cost, less pollution.

40–70LDB

RIG CLASSES

10(6) kV

HV INCOMING LINE

2 × 1400 kW

MAX FREQUENCY INVERTER

Remote

DIAGNOSTICS & MONITORING

Mechanical drilling rigs adopt electric drive instead of diesel engine drive, to enhance rig efficiency and reliability, reduce drilling costs and minimize environmental pollution. Applied mainly to 40LDB, 50LDB and 70LDB rigs.

SYSTEM FEATURES

- 01 Flexible configuration**
Built on the user's existing equipment and power needs.
- 02 Variable-frequency motor drive**
Minimal grid impact, wide speed adjustment range.
- 03 Remote diagnostics and monitoring**
On-site faults and equipment operating parameters.



SINOPEC · RIG RETROFIT



INDONESIA 1500HP · SCR RETROFIT

TECHNICAL PARAMETERS

Parameter	40LDB	50LDB	70LDB
HV incoming line cabinet	10(6) kV		
Transformer	2000-10/0.6/0.4	2500-10/0.6/0.4	3150-10/0.6/0.4
600V low-voltage cabinet	600V main power supply		
400V MCC	Auxiliary equipment and room power supply		
Frequency inverter	2 × 1000kW	2 × 1200kW	2 × 1400kW
PLC cabinet	Including HMI and hardware		
SVG	Reactive power compensation, filtering		
AC motor	600V / 800kW, 1000kW, 1200kW		

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