



Rig Building



Mechanics



Electrics



Repair



Consulting



Quality



Projects



Engineering

BENTEC VARIABLE SPEED DRIVE (BVSD)

Adjustable motor drive system for drilling machinery

The Bentec Variable Speed Drive (BVSD) continues to be the successful method of building electrical drive systems. Similar to the DC drive systems, the AC drive system has been developed for special operational requirements on drilling units.

The BVSD reflects the cutting-edge-technology applied on offshore and onshore drilling units. If you have the power and the Drilling Application we can handle the gap in between.

For BVSD converter system is constructed as an build-in system for Power Control Rooms (Container System), the incoming power as well as the feeding power to the AC motor as well as the auxiliaries and controls are plugged outside of the container. This leads up in shorting rig up and rig down time for land drilling rigs. Though Bentec BAFD motor systems are available to fit all high power drilling applications, the system also is adjustable work, with different types of motors like ABB, GEB 22, Reliance, etc.

The shown system is an ideal solution for rigs that need to be upgraded e.g. with a Bentec top drive system TD-500-HT.

Maritime Hydraulics also relies on Bentec technology. Their latest development is already equipped with the Bentec Variable Speed Drive.

Bentec can also provide solutions for drawworks, mud pumps and rotary table drive systems.

BVSD converter systems are available for integration in a Power Control Room (PCR) together with Main Switch Board, Generator Control, MCC and other controls. Bentec handles the entire electric system for drilling rigs onshore and offshore.





▲ Maritime Hydraulics Topdrive PT D 500 AC

▲ Redundant Cooling System

▲ BVSD Container for Top Drive application / desert

TECHNICAL DATA

Supply of Voltage: 690 V, 50 Hz, 600 V 60 Hz + -10 %

Output Current: 1.600 A (2.000 A)

Output Voltage: up to Supply Voltage

Output Frequency: 0 up to 87 Hz (200 Hz)

Tailor-made solutions are available on request!

TRAINING

Training can be done either in our facilities in Bad Bentheim or at site on the unit. Test facility for BVSD is available in Bad Bentheim.

SERVICE

Professional service like system test, customer acceptance, installation, commissioning, customer training and after sales is available. Our customer care service is on standby at any time via our service hotline +49-5922-72-354 (during business hours) and +49-5922-72-111 (outside business hours).

ADVANTAGES :

- Use of standard AC motors
- Water cooled compact system
- High-dynamic system
- Torque can be pre-set controlled
- Safety concept with controlled shut down
- service information in clear language
- history function
- Interface hardwired or Fieldbus

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