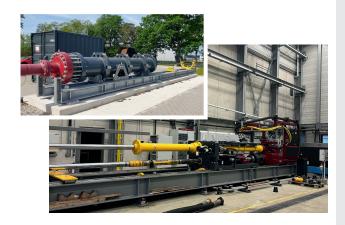


DSC

Drilling Simulator Celle

Hardware Test Stand for Downhole Tools in Full Scale

The DSC has a full-scale hardware test stand that reproduces the lower section of a deep well in a horizontal position and in the future also vertically on a real scale. Components to be tested can be mounted at the lower end of the BHA with a diameter of up to 8.5/8 inches. Using the two triplex pumps, a variably equipped rock chamber, and a choke in the annulus, the conditions of a deep well can be realistically and pressurized experimentally simulated. In its basic configuration, the test stand enables full-scale investigations of new prototype downhole tools such as new drill bits, pulsers, or hammers. Due to its modular design, the test stand can be flexibly adapted to your specific requirements.





TU Clausthal

Clausthal University of Technology

The hardware test stand currently has the following specifications:

Drilling Rig

| Stroke | 5m | 16.3 ft |
|--------|--------|---------|
| ROP | 10 m/h | 32 ft/h |
| | 40. | |

WOB 10 t

6.5 klbsft Torque 8.8 kNm **RPM** 220 1/min 200 kW

Flushing System

Power

2 Triplex pumps Schäfer & Urbach BT 60/70 1200 kW Power 1600 hp max. 5000l/min Flow rate 1300gal/min Pressure max. 350 bar 5000 psi

270 hp

Autoclave

BHA length 23 m 75 ft Formation 5 m 16.3 ft 100 bar Pressure 1500 psi Diameter 222 mm 8 3/4"

If you have any questions about this or other service offerings, please feel free to contact us.

Contact

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