



B04

RIG INFORMATION

Arverne Drilling Services B04 rig is a deep drilling rig terra invader 450 box-on-box, designed and manufactured by Herrenknecht Vertical GmbH according to European regulations.

MAST and HOOK LOAD

TYPE	Twin profile
HEIGHT	51.8 m
MAX. HOOK LOAD	450 mt

SUBSTRUCTURE

TYPE	Box-on-box
HEIGHT	9m rig floor plus 3m windwalls
CLEAR HEIGHT BELOW RT	8.2 m
BOP HANDLING	2 x 25 mt
RIGFLOOR DIMENSIONS	9m x 10m

Integrated into the box-on-box substructure are choke manifold, BOP closing unit, water tank, trip tank, mud line, hydraulic power unit and cooling unit.

CYLINDER HOISTING SYSTEM

TYPE	double cylinder system
HOIST POWER	1,600kW
BRAKE	Hydraulic lowering brake valves
STROKE	22 m

Ultra-sensitive operation due to multi-valve hydraulic control.

MUD PUMP UNITS

MAKE	Schäfer & Ubach /Herrenknecht
TYPE	high pressure triplex mud pump
NUMBER	3
MAX. OPERATING PRESSURE	517 bar
MAX. INPUT POWER	1,600 kW
DRIVE	AC with VFD

The mud pump units are sound proofed.

TOP DRIVE

TYPE	HV TD H 500-1000
MAX. STATIC LOAD	450 mt
MAX. PUSH LOAD	160 mt
MAX. ROTARY SPEED	220 rpm at 31,000 Nm
MAX. CONTINUOUS ROTARY TORQUE	62,000 Nm at 110 rpm
MAX. BRAKE TORQUE	70,000Nm
LINK TILT CAPACITY	4mt at 1.5m
RATED POWER	800kW

Including IBOP, pipe handler, integrated swivel with quill and dolly with torque pick-up.

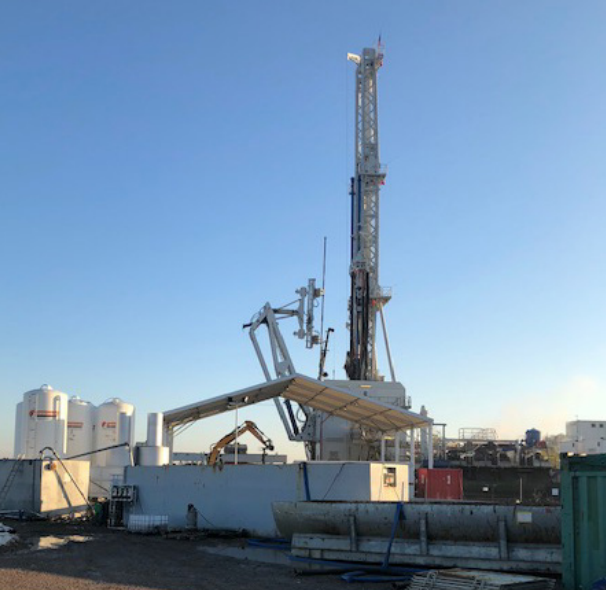
RIG POWER SUPPLY

HYDRAULIC POWER UNIT	4x 500kW
GENERATOR SET	4 generators
MAX. POWER DIESEL ENGINE	1,232kW each
MAX. POWER GENERATOR	1,540kVA each
EMERGENCY SUPPLY UNIT	
EMERGENCY POWER DIESEL ENGINE	600kW
EMERGENCY POWER GENERATOR	715kVA
HYDRAULIC AUXILIARY UNIT	90kW
COMPRESSED AIR POWER UNIT	2x 30kW
POWER CONTROL CENTER	MCC

AUXILIARY CRANE

TYPE	PK 32080 M
DRIVE	hydraulic
LIFTING MOMENT	298,000Nm
MAX. LIFTING CAPACITY	8.5mt
SLEWING ANGLE	400 degrees

The auxiliary crane mounted on the rig floor can be steered by a wireless remote-control panel and has a maximum reach of 12.2m.



DRILLER'S CABIN

CONTROLS joystick, trackball and touch screen with camera control

PIPE HANDLING SYSTEM

DRIVE hydraulic

OPERATING RANGE 73 mm (2 7/8") to 620mm (24"1/2)

LIFTING CAPACITY 4.5 mt

MAX. TRIPPING SPEED 600 m/h

The complete pipe handling system is designed to handle drill pipe range 2 in doubles, drill collars and casing. The controls are semi-automated and the system is operated by the pipe handling operator or the driller.

An integrated anti-collision system ensures a safe pipe handling process during all operations.

ROTARY TABLE

TABLE OPENING 953 mm (37 1/2")

MAX. STATIC LOAD 450 mt

MAX. DYNAMIC LOAD 350 mt

DRIVE hydraulic

MUD TANK SYSTEM

TANK 350 m³

SHAKERS 4

ADDITIONAL EQUIPMENT

- Iron roughneck / Manual tongs
- Power slips / slip lifter / manual slips
- Elevators
- Auxiliary winch
- BOP / BOP closing unit
- Medium voltage switchgear unit
- Drill sting