

„SAGA“ SOILMEC G-55 Main Specifications



“SAGA” – MAIN SPECIFICATIONS

SAGA / SOILMEC G-55

Topdrive hydraulic drilling rig, Soilmec Mod-G55, mounted on four axle MAN truck driven by independent deck-mounted diesel engine.

Manufacture year: 2001

Especially designed for drilling wide diameter wells. Drilling depth is 1300 m with 4” range 2 DP.

Pull Capacity, 50 ton

Weight: 35,7 ton

Loads, in Transport 9-13

Drilling Crew per shift 4



“SAGA” – MAIN SPECIFICATIONS

Hydraulic Power Pack:

- a) Engine: Deutz BF8M1015.
Power: 348 kW at 2000 rpm
- b) Hydraulic system:
Axial pistons, variable displacements and gear pumps. Open close circuit type.
840 lt capacity tank. One oil cooler.
- c) Hydraulic motor series and cylinders complete with all control devices to move all services for rig functionality.
- b) Hydraulic cylinder for pull up/down inside mast structure



“SAGA” – MAIN SPECIFICATIONS

Mast:

Mast consists of two sections. The upper one is telescopic, sliding on rollers and controlled by hydraulic cylinder.

Nominal Capacity 50 ton

Total length in drilling position 23,8 m

Max. Static pull capacity: 50 ton

Passage through substructure: 1100 mm

Working height: For Range 2 DP 9,5 m.

Increased room around the hole center, distance between centermast and well center of 770 mm



“SAGA” – MAIN SPECIFICATIONS

Power swivel:

Power swivel driven by 2 hydraulic motors assembled on a special cradle sliding on mast guide. Power swivel tilts 85°. DP or collars are connected horizontally to the topdrive.

I.D. Full opening: 76 mm (3”)

Variable speed: 0-120 rpm

Torque range: 0-2300 daNm at 40 RPM

Stroke: 12,4 m

Max lifting speed: 21,6 m/min

Max. Pull up: 50 ton

Max.pull down: 12,5 ton



“SAGA” – MAIN SPECIFICATIONS

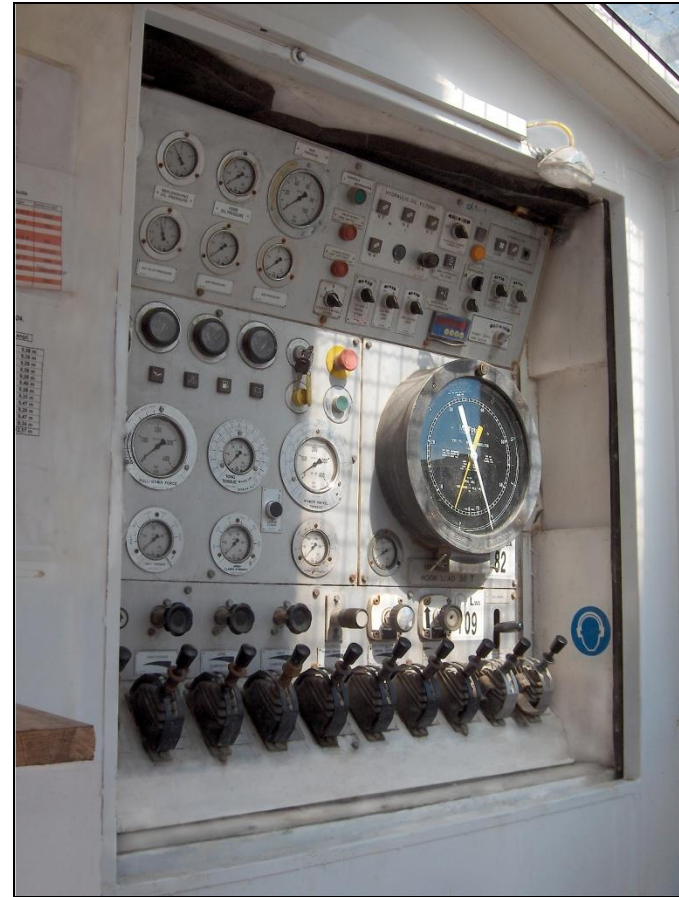
Control Panels:

Main control panel:

mounted on Rig in conjunction with dog-house with all controls for drilling operations, mud pump, power tong make-up and break-out automatic sequence, weight indicator and other drilling parameters.

Auxiliary control panel:

To control leveling jacks, rising and lowering of the mast, engine control, emergency stop, rope tensioning device.



“SAGA” – MAIN SPECIFICATIONS

Mud System:

One tank 12.000 l with mud gun, agitator, shale shaker and desander rated for 50 l/s

Two mud pumps:

Soilmec Mod 7TS508 skid mounted with triple single acting pistons. Manufacturing year: 2001.

Driven by Cummins KTTA19C diesel engine.

Max volume with 7” liner: 32 l/s

Max pressure with 7” liner: 70 bar



“SAGA” – MAIN SPECIFICATIONS

Handling system:

Crane picks up DP, Collar or casing and moves it horizontally in line with the power swivel. The power swivel slides down and tilts 85° and connects to the DP / Collar or casing.

Crane:

Type: Hiab model 220 – 5

Max lifting capacity: 22 ton / meter

Independant hydraulic electrical driven power plant.

Wireless remote control.



“SAGA” – MAIN SPECIFICATIONS

Hydraulic double clamp:

Operated from drillers panel, for making up and breaking out drill pipes and drill collars.

Max break-out torque: 7000 daNm

Opening full bore: 585 mm (23”)

Make-up and break-out for sizes up to 20” OD.

Hydraulic centering device mounted on the clamps, complete with rollers for drill pipes and drill collars.

Clamp is openable up to 1400 mm.

Loading capacity: 40 ton.



“SAGA” – MAIN SPECIFICATIONS



“SAGA” – MAIN SPECIFICATIONS



“SAGA” – MAIN SPECIFICATIONS



“SAGA” – MAIN SPECIFICATIONS

