



MASSARENTI MR 7000

HYDRO DRILLING INTERNATIONAL S.p.A.

The "MR" series rigs, fully mechanically driven, are designed to ensure ease of operation in a wide variety of extreme terrain and climatic conditions and to enable the operator to work in areas requiring all-terrain vehicles such as in desert, swamp or jungle conditions and arctic tundra. The drawworks, carrier and mast capacities are matched to provide good performances. The rig is manufactured from high strength material and equipped with heavy duty hydraulic systems capable of providing power for all the hydraulic services.

The rig is trailer mounted and is designed to satisfy the needs of quick rig-up and easily transportable unit

In order to guarantee operations on multi-well cluster, the rig is equipped with a skidding system so to reduce idle time between wells

The drilling control panel is placed in such a way to provide to the driller a complete vision of the drill floor area.

Moreover:

- All decks are checkered plate to ensure a safe walking surface in icy or wet conditions;
- All rig's components can be designed for operations ranging from - 45 °C up to + 50 °C;
- Weather protection on the drill floor area is available;
- Sound-proof shelter for engine is available.



MAIN RIG CHARACTERISTICS

DEPTH RATING

8800 Ft w/ 5" DPs

12000 Ft w/ 3 1/2" DPs

MAST SPECS: 117Ft - Telescopic type hydraulic raising w/Guy lines tied to substructure base beams

Gross Cap. 550.000 Lbs

Static hook load 350.000 Lbs = 160 T

SUBSTRUCTURE

Height 17 Ft = 5.20 m

Rotary cap. 400.000 Lbs = 180 T

Setback cap. 250.000 Lbs = 113 T

DRILLING

D-WORKS: Massarenti MAS 2500 TR

DRIVE COMPOUND: 2 Engines

GM12V-71 acoustic housing

ROTARY TABLE: Ideco 23"

TRAVELING BLOCK: Massarenti T 430-G 175

SWIVEL: Mass. I-200

TOP DRIVE

BOWEN 250 HTP HYDRAULIC Rated load capacity 225 Ton

Maximum continuous output torque 2.200 Kg-m

At rotating speed 75 RPM

Maximum rotating speed 200 RPM

Top Drive pipe handler w/ maximum output torque cap. 3.300 Ft-Lbs



MUD SYSTEM

MUD PUMPS

MUD PUMPS: 2 x MAS 1000 Hp
Drive engine GM 16V-149T/12V149T1100-1200 HP acoustic housed
CENTR. PUMPS: 3 each 5x 6R

MUD SYSTEM

MUD SYSTEM: Tanks cap. 1130 bls = 180mc. c/w 6 mud agitators
DRLG.WATER TANK: 250 bls = 40 mc and ground reserve pit

S/SHAKER

Triple Cobra Shaker Package

DESANDER

3 x 8" cones

MUD CLEANER

Swaco 6T4 12 x 4" cones

DEGASSER

Burgess Magnavac 1000
Drive eng. SAME 75 Hp for mud treatment and mixing



WELL CONTROL EQUIPMENT

CHOKE MANIFOLD

3 1/16" - 10000 3 chokes, 2 manual and remote control

BLOW OUT PREVENTERS

Hydril MSP 21 1/4 - 2000
Hydril 13 5/8 - 5000
CIW double 13 5/8 - 5000 U
CIW single 13 5/8 - 5000 U (shear rams)

BOP CONTROL

Koomey 120 GIs (22 x 11 gls bottles) - 8 control stations



OTHER EQUIPMENT

AC RIG GENS

SCANIA 400 KVA 380 V - 3 Ph - 50 Hz - Drive SCANIA DC12-54 + backup

FUEL TANKS

23 mc cap.

RIG SITE

Housing and auxiliary equipment to run operations Firefighting equipment and safety aids

RACKING IN DOUBLE

5" DPs 9360 Ft
3 1/2" DPs 13000 Ft

DRILLSTRING

5"-19.5 Grade G105 - S135
3 1/2"-13.3 Grade G105
DCs 8" - 6 1/2" - 4 3/4"NT



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