

MARCHETTI MG 90.4 ALL-TERRAIN CRANE SPECIFICATIONS

Maximum capacity on outriggers 90 t – Base machine is as follows:

Chassis

Manufactured by Marchetti, steel torsion-resistant box type construction, width 2.75 m.

Outriggers

4 hydraulically telescoping beam outriggers. Independent movement controls on each side of the carrier and in the upper structure cab. Two different outrigger positions available 6.9 m & 5 m. The outriggers' pads are always clasped to the vertical cylinders.

Engine

IVECO engine F3A turbo-intercooler EUROMOT 2, 6 cylinder in line, water cooled. Max power 287 kW (385 HP) at 2000 rpm. Max torque 1700 Nm at 1000 rpm. Fuel tank capacity 450 liters.

Gear Box

Automatic ZF, with 6 forward and one reverse speed with retarder.

Transfer case

Two speed transfer case with inter-axle differential lock.

Axles

N. 4 axles 8x6x8 1st, 2nd, 3rd and 4th steering, 1st, 3rd and 4th drive. Differentials can be locked.

Suspension

All axles have hydro-pneumatic suspensions. Longitudinal and transverse level control and locking to allow motion from the upper structure cab. Automatic leveling system for road travel. Cylinder stroke 220 mm.

Tires

Simple tires on all wheels: N. 8 type 16.00 R 25.

Steering

Dual circuit power assisted. Mechanical ZF steering operated from the driver's cabin. Emergency steering pump on the transmission. Four possible steering combinations. Hydrostatic control from the upper structure cab.

Brakes

Service and emergency brake: three circuits, all wheels. Permanent brake: hydraulic on gear box and engine. Parking brake: spring brake actuator with pneumatic control acting on 3rd and 4th axle. Air dryer.

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Cab

Forward tilting, 2-man design aluminum cabin with sound proofing and flexible mounted driving seat, safety thermo glass, heating provided by engine water, complete instrumentation and car stereo pre-fittings. Emergency electro-pump for boom elevation in the event of an engine failure.

Electrical system

24 V EEC compliant lighting system. N. 1 working light fixed to upper structure cabin.

Superstructure

Continuous 360° rotation.

Hoist gear

Grooved drum, epicyclical reducer and automatic disk brakes. Axial piston engine and descent control. Rotation indicator. Anti-slewing rope, length 230 m diameter 19 mm. Hoisting capacity at the 4th level, 6000 daN.

Boom elevation

Through 1 hydraulic double-effect cylinder with safety valve. Boom angle from -1° to 82°

Slewing

Planetary gear & external sprocket, epicyclical reducer and automatic multiple disk brakes.

Boom

Six section telescopic boom, length ranging from 11.1 m to 48.5 m, full hydraulic extension. One base section, three telescopic sections independent of one another, two synchronized telescopic sections. Maximum height of boom approximately 51 m.

Hydraulic system

One axial pistons load sensing pump for the crane's main circuits; one geared pump for slewing and for the outriggers; one geared pump for the service circuit. Possibility of activating three contemporary maneuvers. Thermostatically controlled oil cooler for "heavy duty" jobs.

Crane Cab

Full vision, tempered glass, safety glass top that can be opened. Independent diesel heating. Adjustable seat. Comprehensive instrumentation & controls. Equipped for full motion control from within the upper structure cabin and steering controls. Pre-fitted for stereo system.

Counterweight

Consisting of various sections, it can be moved through the use of hydraulic cylinders controlled from the cab. Full 20.5 t counterweight; 1.5 t counterweight can be stowed aboard of crane when traveling on road. Weight per axle of mobile vehicle version is 12 t.

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Hook Block

Hook block type 50 t with 4 sheaves with horn-type hook (max capacity 48 t).

Safety devices

Moment limiter electronic device, lifting and depositing hoist limit switch. Safety valves fitted on Hydraulic cylinder and winch engines.

Performances and weight

Maximum speed 70 km/h.

Potential maximum gradient 60 %.

Total vehicle weight with road travel set-up: 48 t (including 1.5 ton of counterweight).

Painting

Bi-component polyurethane body paint: grey RAL 7016 & yellow RAL 50% 1006–50% 1007

Others

The crane comes complete with user guide and parts catalogue.

MACHINE WILL BE EQUIPPED WITH:

Lattice extension of 10 m to 17.5 m two-fold, offset 0° – 20° – 40°, and stowable alongside boom.

Hook block type 20 t with 1 sheave, (single hook), max capacity 18 t.

Ball-type hook type 8 t, max capacity 6 t.

Centralized lubricating system for carrier.

Manual centralized lubricating system for superstructure.

Air conditioning in carrier cab.

Air conditioning in superstructure cab.

The crane is compliant with the 98/37/CE directive and is provided with CE marking, including the accompanying documentation “CE compliance declaration” for the above mentioned directive.

