



DIESEL ENGINE	Stage IIIA / Tier 3		
Model :	KOHLER series 1903M		
Type :	Aspirated		
Total displacement, no Cylinders:	1861cc - 3 in line		
Injection :	Direct with mechanical control		
Cooling :	air water, dry air filter		
Maximum power :	30 kW (42 Hp)		
Adj. power :	30 kW (42 Hp) (2600 rpm)		
Maximum torque :	130 Nm a 1600 rpm		
Alternator :	12 V - 55 A		

### ELECTRIC SYSTEM

Battery: ..... 12 V - 60 Ah (480 A)  
Standard working light, road light and signaling system (optional).

### 4X4 FOUR-WHEEL DRIVE

Hydrostatic "automotive" transmission with variable displacement pump and variable displacement two-position hydraulic engine with electro-hydraulic control, and reverse gear control on the steering wheel.

### SPEED

2 forward gears      1 reverse gear  
I° 0 - 6,3 Km/h    0 - 6,3 Km/h  
II° 0 - 15,3 Km/h    0 - 6,3 Km/h

Traction / weight ratio ..... 33%

### AXLES AND WHEELS

Rear load-bearing, oscillating ( $\pm 7.5^\circ$ ) and non-steering with planetary reduction gears on the wheel hubs.

Front load-bearing, steering with planetary reduction gears on the wheel hubs.

Tyres ..... 10.0/75-15.3 14PR

### BRAKES

Internal oil-bath disc service brakes acting on the 4 wheels, activation with pump on single circuit.

Parking and emergency drum brakes on the rear axle with lever control.

### STEERING

Assisted by means of load-sensing hydraulic steering on 2 front steering wheels.

### WATER SYSTEM

"Self-priming" volumetric water pump with quick-suction.

Max. capacity: ..... 160 litres/min.

Maximum head: ..... 4 bar

A steel tank to the left of the machine with a total capacity of ..... 200 litres.

Water feeding to the drum controlled by means of electromagnetic flow meter and fed litre reading on the cabin display.

Water pump activation from the driver's seat. Suction selection from the ground with quick-coupling pipes.

### MIXING AND UNLOADING

Double-cone drum with double-spiral mixing screws.

Geometrical drum volume: ..... 1685 litres

Drum rotation speed: ..... 20 rpm.

Class S1 concrete produced as: ..... 1,0 cu m

Drum rotation by means of a gear pump and an orbital hydraulic motor in open circuit with electrical control positioned in the cabin.

Unloading chute with mechanical tilting and rotation.

1 unloading chute extension provided as standard equipment.

### SERVICE DEVICES HYDRAULIC SYSTEM

Gear pump

Max. flow rate: ..... 21 litres/min.

Maximum pressure: ..... 180 bar

3-element distributor with joystick to control arms and loader, and lever to control the water pump.

Aluminium heat exchanger for hydraulic oil cooling.

Pressurised closed-circuit intake with oil filter replaceable from the outside.

### LOADER

Loading device with grab bucket and lifting arms controlled by double-acting hydraulic cylinders. Automatic unloading hatch driven by a mechanical lever.

Volumetric capacity: ..... 340 litres

Number of loaderfuls per load: ..... around 4

Production capacity: up to 4 cycles/hour

### CAB

Open cab designed according to ROPS & FOPS Lev. I.

Anatomic seat with flexible suspension and height adjustment, seat belts.

Driving and equipment controls with ergonomic arrangement.

### SERVICE REFILL CAPACITIES

Fuel tank, ..... 50 litres

Total hydraulic system capacity: ..... 40 litres

Engine oil: ..... 7.5 kg

### WEIGHTS

Operating weight ..... 2880 kg

Max gross weight: ..... 5550 kg

load-carrying capacity: ..... 2670 kg