



R30
revolution





DESCRIPTION (UNI 10929:2011) Self-loading concrete mixer - Concrete net output : 3,0 m³ (class S1) - Front loading - Slewing unload 270° - N.4 wheel steering/drive - Loading by rigid bucket - Cab welded to the rotating drum and slewing at 270°

ENGINE

Perkins 1104D-44T, Diesel 4 stroke - N. 4 cylinder in line - Turbo - Mechanical control direct injection - Max. Power 74,5 kW (101 hp) a 2.300 RPM - Max torque 392 Nm a 1.400 RPM - Water Cooled - Dry Air Filter - Conformity USA EPA Tier 3/EU Stage IIIA

DEUTZ TCD3.6L04 - Diesel 4 stroke - N.4 cylinder in line - Turbo Aftercooled - Electronic Control - Common rail - Max. Power 74,4 kW (101 hp) a 2.300 RPM - Max. torque 410 Nm a 1.600 RPM - Water cooled - Dry air filter - Conformity EU STAGE IIIB/USA EPA Tier 4i

TRANSMISSION 4x4 full wheel drive, N. 4 gears forward/reverse (2 hydraulic, 2 mechanic) - Max speed 40 Km/H - Max slope full loaded 50% - Hydrostatic "automotive" transmission with variable displacement pump and variable displacement hydraulic motor controlled by an electro-hydraulic lever for "slow"/"fast" gear and reverse movement selection - Mechanical gearbox for "work" and "transfer" gear with electro-hydraulic control lever - Inching Command

AXLES Both load-bearing and steering with final epicyclic gearing reducers - Oscillating front axle ± 8° - Fixed rear axle with flanged reducer.

BRAKES Inner in oil disc hydraulic service brake acts on both axles, activated by a dual circuit independent pump - Inner in oil bath disc parking brake acts directly on rear axle with hydraulic command and negative cylinder - Emergency brake integrated directly on service brake.

STEERING Hydrostatic fed by an independent pump - Four wheel steering by means of 2 double action cylinders - Steering selector device on operator's console for: front wheel drive/ 4 wheel bi-lateral drive/ 4 wheel parallel drive (crab mode)

FRAME Electrically welded high-tempered steel - Frame mounted on roller bearing swivel ring with 270° hydraulic rotation through gear-motor - Hydraulic drum lifting control through double-acting cylinder - High capacity hopper - Unloading chute with hydraulic tilt and dual action cylinder controlled from operator's turret or from the ground -Hydraulic rotation by dual action cylinder controlled from operator's turret.

DRUM with big double spiral mixing blades, double cone and convex bottom - Emergency manhole for inspection or emergency unloading - Drum rotation through hydrostatic transmission with variable displacement pump and orbital motor coupled to gearbox with infinitesimal electro-hydraulic control both from the operator's turret and from the ground - Geometric volume 3700 l - Max concrete yield 3,0 m³ (S1 class) - Drum speed 27 RPM - Drum flexible to 270° - Double-acting hydraulic lifting cylinder for easy and quick discharge.

BUCKET Rigid high inclined bucket for fast and hassle free aggregates discharge positioned on a loading arm driven by 2 double-acting hydraulic cylinders - Capacity 500 l - Single lever control -12 m³/hour productivity

OPERATOR'S TURRET Welded to the rotating frame, slewing at 270°, allows perfect visibility in transfer and work phases - Anatomical seat with flexible suspension and height adjustment, seat belts - Adjustable articulated armrest with joystick - Large high visibility windshield with electric wiper - Steering column in ABS with electronic display and ergonomic user friendly dashboard and control panels - 4-side closed ROPS FOBS cabin

HYDRAULIC SYSTEM 6 elements servo controlled hydraulic distributor - 3 elements electrically controlled hydraulic distributor - Piston variable displacement pump 1/min 37@ 1000° for drum rotation - Gear pump 1/min 20@ 1000° for utilities - Gear pump 1/min 14@1000° for steering and breaks - 16 µm hydraulic oil filter - Aluminum heat exchangers

WATER SYSTEM Self-priming volumetric water pump with quick-suction activated by hydraulic motor controlled both from the driver's seat and from the ground - Flow rate 230 l/min - Max pressure 3,0 bar - Water tank total capacity approx. 350 l - Two diverter three way electro-hydraulic controlled and ball valve connected directly to the washing nozzle - Quick-coupling water intake hoses with filter - Electronic water meter

ELECTRICAL SYSTEM Starter 12V 3 kW - Alternator 12V 95A with regulator incorporated - Battery 12V 110Ah (900A)

GROUND COMMANDS Water meter and water pump commands, drum rotation, chute up/down commands, emergency stop

SERVICE REFILL CAPACITIES

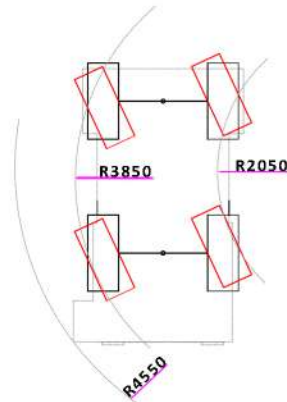
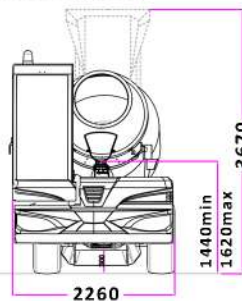
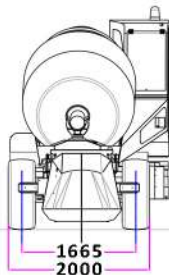
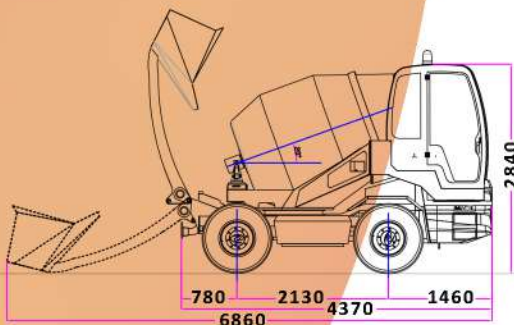
Fuel tank	125 l
Hydraulic oil tank	150 l
Engine oil	9,5 l
Engine coolant	7,0 l

TIRES Std 12.5/80-18 16 PR

DIMENSIONS 2.260 x 6.850 x 2.840 mm (bucket down)

WEIGHT 5.960 kg

MEETS CEE road standards



REVOLUTION R30



Spirit of Excellence

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