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Minimac

Slurry Seal/Micro Surfacing

Looking for solutions to the problem of small-to-medium production slurry seal pavement maintenance? The answer is here: Minimac, the world's first successful one-man, self-propelled slurry/micro surfacing machine. Economical and compact, the Minimac is the go-anywhere tool that has increased the scope of slurry pavement maintenance today. Its compact size and weight make it a natural for jobs that can't be done by larger machines. Now, maintenance can be accomplished in areas that aren't feasible for bigger crews.

The Minimac is designed to operate effectively in confined areas like parking lots, garage structures, footpaths, walkways, driveways, golf cart paths and bicycle trails.

This machine is feature-packed, beginning with its strongest attribute: simple one-man operation. Critical operations are controlled from a single joystick.

The Minimac is designed for low maintenance and high reliability, and it features top-quality components.

Auto sequencing assures the consistent application of all slurry seals and other polymer microsurfacings.

Material is mixed automatically by a double-shafted pugmill, with production rates up to 0.9 tonnes/min. (1 ton/min.)

The Minimac can deliver material on grades up to 30%, and with proper materials staging, loading takes as little as five minutes.

Cost-efficient completion of small-to-medium production is easy, and doesn't require a large crew. One operator steers a Minimac and controls and monitors every procedure. The Minimac is the pavement maintenance tool for today and tomorrow.



MINIMAC

Slurry Seal/Micro Surfacing for Pavement Maintenance in Confined Applications

DIMENSIONS

Total Unit Length	5.94 m	19.5 ft.
Overall Width	1.82 m	6.0 ft.
Overall Height	1.93 m	76 in.
Wheelbase	2.54 m	100 in.
Unladen Weight	5898 kg	13,000 lbs.
Maximum G.V.W.	11,340 kg	25,000 lbs.

VEHICLE INFORMATION

Drive Train	Hydrostatic	
Gradeability	30% grade	
Shuttle Ground Speed	16 kph	10 mph
Turn Radius	4.85 m	16 ft.

CAPACITIES

Aggregate Capacity (level)	2.3 cu. m	3 cu. yd.
Aggregate Capacity (heaped)	3.1 cu. m	4 cu. yd.
Emulsion Capacity	1,060 liters	280 gallons
Water Capacity	1,060 liters	280 gallons
Fines Capacity	68 liters	2.4 cu. ft.
Additive Capacity	76 liters	20 gallons
Fuel Tank	170 liters	45 gallons

PERFORMANCE

Pugmill Output	0.9 tonnes/min.	1 ton/min.
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OPTIONS

- Four-wheel drive
- CALTRANS approved material monitoring and control system
- High pressure washer/reel
- Colored slurry pump & removable emulsion tanks

FEATURES

- Automatic start/stop materials sequencing
- Automatic low aggregate shutdown sensor
- Integrated cement hopper with built-in fluffer
- Heated emulsion pump (hot water supplied by engine)
- Additive tank/pump system
- Quick-open Teflon insert emulsion valves
- Pavement fog sprays and joint sprays
- Automatic variable amplitude hydraulic hopper vibrator
- Visual sight flow gauges for water/additive
- Direct drive jackshaft system
- Emulsion self loading
- Quick cleaning emulsion filtration system

POWER

- John Deere turbo-charged diesel, 86 kW@2400 RPM (115 hp) Tier III OR
- Cummins turbo-charged diesel 90kW@ 2,400 RPM (121HP) Tier IV
- Hydraulic quad pumps, variable displacement, pressure & flow compensated, combined 380 liters/min. (100 gpm)
- Emulsion Pump - Hot-water jacketed 2" positive displacement, 227 liters/min. (60 gpm)
- Water Pump - 113 liters/min. (30 gpm)
- Additive pump - 45 liters/min. (12 gpm)
- Pugmill - double-shafted Magna gun-barrel design with 46 removable auger paddles. Variable mixing speed, 250 rpm



U.S. and International Patents Pending
VSS reserves the right to make changes in specifications at any time as part of our continuing program of product improvement. © 2023

