

RECLAIMER STABILIZER

CATERPILLAR

RS-500



SPECIFICATIONS

- High Production, Highly Maneuverable.
- Heavy-duty, 4-Wheel Drive, 4-Wheel Steer, Reclaimer/Stabilizer for Cold-Mix Reclamation, Soil Stabilization and Mining Applications.

RS-500 Reclaimer/ Stabilizer



■ Diesel Engine

Caterpillar 3408 DITA engine.

Gross horsepower @ 2.100, 391 kW/ 525 hp.

Four-stroke-cycle diesel engine with 8 cylinders, 13 72 cm/ 5,4 in. bore, 165j cm/ 6,5 in. stroke und 18 liters/ 1,099 cu. in. displacement
Air cleaner, dry type, two stages with visual service indicator 24 volt electric starting system with 50 amp alternator.

■ Mainframe & Leg Assemblies

Fabricated, heavy-duty, unitized mainframe with engine and cutter center mounted for optimum weight distribution for production and travel. Hydraulically powered leg assemblies (four legs) feature highly verantile parallelogram design which provides 914.4 mm /36 in. of elevation for raising and lowering machine in and out of cut, and loading and unloading onto trailers for transport.

Elevation control is manual or automatic with the right legs lied together permitting automatic control of cross slape.

■ Rotary cutter assembly

2,44 m/8 ft. wide x 1.27 m /50 in. diameter mandrel Cutter housing liner group, which includes 1.27 cm/.5 in. hardened plate hood liner, and 1.9 cm/ .75 in bolt-on liner plates mounted on cutter hausing and sheets.

Hydraulic power-up end slides with independent cantral for R.H. and L.H end slides.

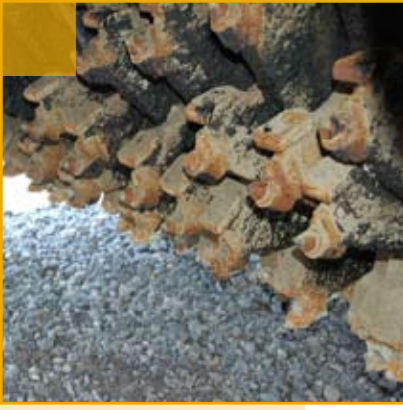
Positive displacement tube system which provides lubrication of the L.H. lower drive shaft to seal L.H. cutter bearing.

cutting Width..... 2438.4mm/96 in.

cutting Depth..... up to 406.4 mm/16 in.



RS-500 Reclaimer/Stabilizer



■ Cutter Teeth

218 tungsten carbide teeth with 19.05 mm/0.75 in. shanks. Teeth tap in/tap out for easy replacement 218 replaceable heavy-duty steel holders on mandrel with unique dowel location system

■ Mechanical Rotor Drive System

Wide V-belt power band drives the rotary cutter through a planetary reducer gearbox inside the cutter drum. Dry disc air clutch mounted directly to engine.

- Up to 25 percent more efficient than hydro-static drives in delivering maximum available power.
- V-Belt power bands isolate drive train from cutter generated shock loads
- Direct drive results in maximum break-out force for higher production rates.
- 4-speed cutter transmission provides the cutter torque needed in tough applications

Operator can select speed range for optimum gradation and blending control while maintaining maximum production

Speed Ranges (4)-4 Speed Select

85	Rotor rpm
150	Rotor rpm
170	Rotor rpm
205	Rotor rpm

■ Hydraulic System

Ten-micron filtration on all filtered circuits Hydraulic holding tank with 10-micron absolute filtration to pre-filter all hydraulic oil to main reservoir.

Main Tank Capacity.....	189,27 liters/50 gals.
Control System Filter.....	10 micron absolute
Ground Drive Chrg. Oil Filter.....	10 micron

In-Tank Suction Strainer with Magnets.... 10° mesh.



RS-500 Reclaimer/ Stabilizer



■ Wheel & Drive Systems

Transit Speed - 0-11.3 kph/0-7 mph

Working Speed - 0-76.2 mpm/ **0-250 fpm**

Four-Wheel Drive - High Inrque integral (motor and reducer) wheel to provide the tractive effort required for the toughest jobs, and climinate axles, transmission drive shaft, and associated maintenance requirements.

Four-Wheel Steering - Provides maximum maneuverability via operator selection of coordinated, crab and either pair of leading wheels as required for working or traveling.

Posi-trac- All four wheel drive units are coordinated to propel the machine without slippage by the use of a unique flow control valve that equalizes flow to all four wheels without spinout in the working mode.

Pump - Infinitely variable electrical displacement control with load sensing and pressure protection systems.

Motors- 2-speed, fixed displacement, closed loop with high pressure limiter.

Tires- Drive, wide base ground grip 28L-26 (12)RJ.

■ Bi-Directional operation

Dual working directions provide up and down cutting for greater flexibility in gradation and blending control.

Specifications are easier to achieve.

Highest possible production is maintained.

■ Lights

- Head lights..... 2
- Job site floodlights..... 2
- Tail Lights..... 2
- Rotaling beacon lights..... 2
- Dash lights..... 3

■ Brakes

High-powered-Fail Safe- Hydraulically actuated service brake in front wheel drive motors. Brake automatically engage when hydraulic power fails or is shut-off.



RS-500 Reclaimer/ Stabilizer



■ Electrical System

24 volt, 60 amp charging circuit, battery disconnect.

■ Service Refill Capabilities

Primary and secondary fuel filters, rack shut-off solenoid powered through battery disconnect.

Fuel tank.....	1 135,6.....	300
Hydraulic oil tank.....	189,27.....	50
Hydraulic reserve tank.....	18,93.....	5
Cooling system.....	181,7.....	48

Remote radiator fill system for easy access.

■ Operator Controls

- Modular operator station swivels forward to rearward, and 180 degrees providing excellent visibility of the work area in either direction
- Machine stability and low vibration reduce operator fatigue
- Highly-visible systems gauges and controls
- Micro-processor based control system automatically maintains cutting depth, cross slope, and speed Engine load sensing system automatically adjusts travel speed to cutting conditions maintaining optimum use of engine horsepower.
- A 48 character LCD readout provides a continuous display of cutting depth, travel speed and percent of cross slope. The micro-processor also permits a complete on-line review of all machine operations to assist in operator training and trouble shooting problems in the engine or electrical and hydraulic systems permitting automatic control of cross slope.
- Manual backup control system



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■ Steering

Four- Wheel steering and four-Wheel drive lets operator select coordinated steering (all wheel), crab steering, steering of either leading pair of wheels Its 4.42 m/ 14 ft.G in turing radius and 17.78 cm/7 in. l cft hand side clearance are the best in the industry.

■ Air System

One 75,7l liter/ 20 gal. reservoir, one engine mounted compressor, approximately 6 m³ min/21, 19 ft.³min. 150 psi (103 bar) safety valve, quick couplers for hook-up on air impact tool.

■ Optional Equipment

- Group, plain cutting rotor, 914.4 mm/36 in. x 7.28 m/7 ft. 6 width, wall thickness of 25.4 mm/1 in.
- Hard surfacing for 1.27 m/50 in. standard cutter
- Tow hooks - rear only
- 1.27 m/50 in. diameter x 2.44m/8 ft. wide severe service cutter.
- Kennametal quick change random pattern cutter mandrel.
- ROPS brackets
- 3.05 m/10 ft. spray bar.
- 1.47 m/58 in. diameter cutter mandrel for 50.8 cm/20 in. cutting depth
- Fully computerized, totally automatic asphalt emulsion additive systems for cold or hot liquids
- Water Spray Systems - 114-l, 135 lpm/ 30-300 gpm and 227-18,92 lpm/ 60-500 gpm each with flowmeters and manual or automatic microprocessor controls.
- Automatic Cross Slope System
- Optional rotor with 2.22 cm/.875 in. shank tool holder.
- ROPS 2-part fold down construction for shipping.
- Gab with heater and air conditioner
- Tow hook attachment-front and rear (wel-on)
- Sound reduction package.
- 1.22 m/4 ft. wide cutter group for interstate shoulders Group includes 127 cm/50 in diameter cutter, baffle plate and ski for mounting Inside mixer box Cutting depth is limited to 25.4 cm/10 in. The cutting part of the drum can be mounted on L.H or R.H. side of machine
- Expanded asphalt distribution system



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■ Operating Dimensions

Wheel Base.....6.22 m / 20 ft.5 in.

Wheel Track.....2.12m/6 ft. 11.5 in.

Turning Radius.....4.42 m / 14 ft. 6 in.

Processing Width.....2.46 m / 8 ft. 2 in

- Operating Weigh.....25 400,7 kg / 56,000 ibs.

Operating Heigh-Maximum (with legs extended)

Without ROPS.....4.28 M/14 IT

With ROPS.....5.18 M/17 IT

■ Transport Dimensions

Weight approx.....25 332.67 kg/55,850 ibs.

Widht.....3 m / 9 ft. 10 in

Length.....7.82 m / 25 ft. 8 in.

- Transportation Heigh-MIn

Without ROPS.....3,35 M/11 IT

With ROPS.....3.45 M/11 IT. 4 IN.



SPECIFICATIONS

