



RS600C RECLAIMER/STABILIZER



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Center-mounted Cutter

The RS600C's heavy, unitized mainframe with center-mounted 600 hp engine and cutter distribute the machine's 61,880 lb (28,068 kg) weight and horsepower for the highest possible production while a direct V-Belt driven, four-speed rotor transmission provides the cutter torque needed to tackle tough applications. The V-Belt power bands are up to 25% more efficient than hydrostatic drives and they isolate the drive train from cutter generated shock loads for longer component life and less down time.

Bi-directional Operation

By changing travel direction, the operator can use the RS600C's "up-cut" and "down-cut" capabilities to the best advantage while avoiding turns at the end of a working pass. This means the machine spends more time working on the job site and less time maneuvering into position to work. Specifications are easier to achieve because the operator can match working direction and cutter speed range for optimum gradation and blending control while maintaining maximum production.

Hundreds of Units Sold

In continuous production since 1990, the RS600C and its predecessors are among the world's most tested—and trusted machines. More than 500 units are working today in applications ranging from full-depth pavement reclamation to stabilization projects for highways and airports.



RS600C SPECIFICATIONS



Features

- Center-mounted, V-belt-driven cutter maximizes weight and horsepower in the cut
- Bi-directional operation with highly maneuverable 4-wheel drive, 4-wheel steer
- Hundreds of units working in cold-mix reclamation, soil stabilization and mining applications

Diesel Engine

- Caterpillar C-18 DIT ATAAC engine meets Tier 3 (US Environmental Protection Agency Standards) and Stage IIIA (European Environmental Standards) for emissions requirements. Gross horsepower @ 2,100 rpm, 600 hp (448 kW)
- Four-cycle diesel engine with 6 cylinders, 5.71 in (145 mm) bore, 7.2 in (183 mm) stroke and 1,106 in³ (18.1 L) displacement. Air cleaner, dry type, two stages with visual service indicator. 24 volt electric starting system with 60 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 versatile parallelogram design which provides 36 in (914 mm) 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 tied together permitting automatic control of cross slope. Cross slope optional.

Rotary Cutter Assembly

- 8 ft (2,440 mm) wide x 50 in (1,270 mm) diameter mandrel. Cutter housing liner group, which includes 0.5 in (12.7 mm) hardened plate hood liner, and 0.75 in (19 mm) bolt-on liner plates mounted on cutter housing endplates. Hydraulic power-up end slides with independent control for right and left sides.
 - Positive displacement lube system which provides lubrication of the lower drive shaft to seal cutter bearing and planetary seal boot whenever the cutter is engaged.
 - Tungsten carbide teeth with 0.75 in (19 mm) shanks. Teeth tap in/tap out for easy replacement. Replaceable heavy-duty steel holders on mandrel with unique dowel location system.
- | | |
|---------------|----------------------|
| Cutting Width | 96 in (2,438 mm) |
| Cutting Depth | Up to 16 in (406 mm) |

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 flywheel.
 - 4-speed cutter transmission provides the cutter torque needed in tough applications.
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|-------------------------------|---------------|
| Speed Ranges – 4 Speed Select | 101 Rotor rpm |
| | 129 Rotor rpm |
| | 160 Rotor rpm |
| | 197 Rotor rpm |

Hydraulic System

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|---|--------------------|
| Main Tank Capacity | 45 gal (170 L) |
| Hydraulic System Filter
Beta ₁₀ ≥ 100 | 10 micron absolute |
| Ground Drive Chrg. Oil Filter
Beta ₁₂ ≥ 200 | 12 micron absolute |

Wheel & Drive Systems

- | | |
|---------------|-------------------------------|
| Transit Speed | 0 – 5.8 mph (0 – 9.3 kph) |
| Working Speed | 0 – 210 ft/min (0 – 64 m/min) |
| Low Range | 0 – 110 ft/min (0 – 34 m/min) |
- Four-Wheel Drive – High-torque-integral (motor and reducer)-wheel drive units are contained within each wheel to provide the tractive effort required for the toughest jobs, and eliminate 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 microprocessor-based electronic anti-spin control.
 - Pump – Variable electrical displacement control with pressure protection systems.
 - Motors – 2-speed, fixed displacement, closed loop with high-pressure limiter.
 - Tires – Drive, wide base ground grip 26.5 x 25

Lights

- | | |
|--|----------|
| Headlights, Job site floodlights, Tail lights, Dash lights | Two each |
| Beacon light | One |

Brakes

- High-powered, fail-safe– Hydraulically actuated parking brakes in front-wheel drives. Brakes automatically engage when hydraulic power fails or is shut-off.

Electrical System

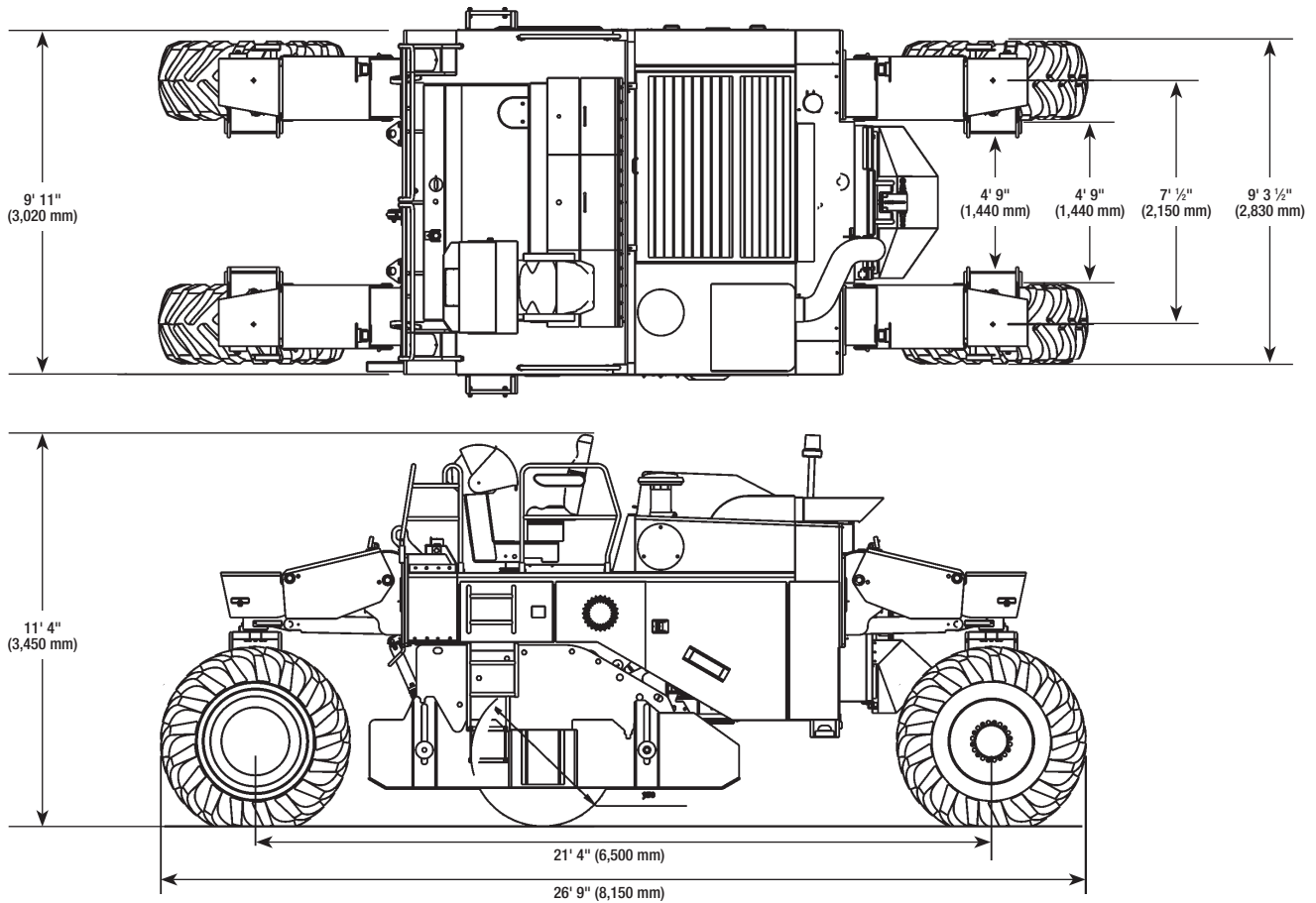
- 24 volt, 60 amp charging circuit, battery disconnect

Service Refill Capabilities

- | | |
|------------------------------------|--------------------|
| Primary and secondary fuel filters | |
| Fuel tank | 300 gal (1,136 L) |
| Hydraulic oil tank | 45 gal (170 L) |
| Cooling system | 22.9 gal (86.6 L) |

Steering

- Four-wheel steering and four-wheel drive lets operator select coordinated steering (all wheels), crab steering, steering of either leading pair of wheels. Its 17 ft 1 in (5,207 mm) turning radius and 7 in (178 mm) left hand side clearance are the best in the industry.



RS600C Reclaimer/Stabilizer

Operator Controls

Modular operator station swivels forward to rearward, 180° providing excellent visibility of the work area in either direction.

Machine stability and low vibration reduce operator fatigue.

Highly visible systems gauges and controls.

Microprocessor-based control system automatically maintains cutting depth, cross slope and travel speed. Engine load sensing system automatically adjusts travel speed to cutting conditions, maintaining optimum use of engine horsepower.

An LCD readout provides a continuous display of cutting depth, travel speed and percent of cross slope. The microprocessor also permits a complete online review of all machine operations to assist in operator training and trouble shooting problems in the engine or electrical and hydraulic systems.

Elevation control is manual or automatic with the right legs tied together, permitting automatic control of cross slope. (Optional)

Manual backup control system.

Gross horsepower based on SAE J1995 standard conditions 77°F (25°C) and 29.3 in (99 kPa) hg using 35 API gravity fuel and engine equipped with fuel, lube oil and jacket water pumps. No derating required up to 3,300 ft (1,006,000 mm) altitude.

Air System

One 18 gal (68 L) reservoir, one engine mounted compressor, approximately 13 ft³/min 125 psi (.37 m³/min) (8.6 bar) safety valve, quick couplers for hook-up on air impact tool.

Optional Equipment

58 in (1,470 mm) diameter cutter mandrel for 20 in (508 mm) cutting depth.

Water/Emulsion Spray System - manual and automatic modes, 30-600 gal/min (114-2,271 L/min) with flowmeter, remote display.

Rear (bolt-on) tow hook attachment.

Automatic Cross Slope System.

ROPS

Heavy-duty front door

Operating Dimensions

Wheel base	20 ft 4 in – 21 ft 4 in (6,200 – 6,500 mm)
Wheel track	7 ft 3.5 in (2,220 mm)
Turning radius	17 ft 1 in (5,200 mm)
Processing width	8 ft (2,430 mm)
Operating height—maximum (with legs extended)	
Without ROPS	15 ft 2 in (4,620 mm)

Transport Dimensions

Weight approx*	61,880 lbs (28,068 kg)
Width	9 ft 11 in (3,023 mm)
Length	26 ft 9 in (8,150 mm)
Transportation height—minimum*	11 ft 4 in (3,450 mm)

*Dimensions will vary depending on options.

Important note: All electrical specifications used herein refer to U.S. standards of voltage and frequency. Any electrical equipment that is factory installed will be compatible with power availability requirements of any customer's country.

Note: All dimensions and weights provided with standard width cutter. Operating and transportation dimensions and weights will vary depending on selected options.

Effective Date: July 2008. Product specifications and prices are subject to change without notice or obligation. The photographs and/or drawings in this document are for illustrative purposes only. Refer to the appropriate Operator's Manual for instructions on the proper use of this equipment. Failure to follow the appropriate Operator's Manual when using our equipment or to otherwise act irresponsibly may result in serious injury or death. The only warranty applicable to our equipment is the standard written warranty applicable to the particular product and sale and Terex makes no other warranty, express or implied. Products and services listed may be trademarks, service marks, or trade names of Terex Corporation and/or its subsidiaries in the USA and other countries. All rights are reserved. Terex is a registered trademark of Terex Corporation in the USA and many other countries. Copyright 2008 Terex Corporation.

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