

ROADBUILDING

- ▶ *Highly Maneuverable, 4-Wheel Drive, 4-Wheel Steer*
- ▶ *Shock Absorbing Cutter-Drive Torque Limiter Maximizes Uptime*
- ▶ *Simple Manual Controls*



RS425C

RECLAIMER/STABILIZER

RS425C | Reclaimer/Stabilizer

Diesel Engine

Caterpillar C-13 DIT ATAAC engine meets Tier III A (US Environmental Protection Agency Standards) and Stage III (European Environmental Standards) for emissions requirements. Gross horsepower @ 2,100 rpm, 416 hp (310 kW).

Gross horsepower based on SAE J1995 standard conditions 77°F (25°C) and 29.31 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 (1,005.84 m) altitude.

Four-cycle diesel engine with 6 cylinders, 5.1 in (130.0 mm) bore, 6.2 in (157 mm) stroke and 763 in³ (12.5 L) displacement.

Air cleaner, dry type, two stages with visual service indicator. 24 volt electric starting system 60 amp alternator.

Rotary Cutter Assembly

8 ft (2.44 m) wide x 50 in (1.27 m) diameter mandrel

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

232 tungsten carbide teeth with 0.75 in (19 mm) shanks. Teeth tap in/tap out for easy replacement. 218 replaceable heavy-duty steel holders on mandrel with unique dowel location system.

Cutting Width96 in (2,438 mm)
Cutting Depthup to 16 in (406 mm)

Mechanical Cutter Drive System

- Direct drive results in maximum breakout force for higher production rates.
- Cutter drive engagement is controlled with on/off switch at the operator control console.
- Engagement and disengagement is through an engine mounted clutch and transmission which also provide for cutter speed changes.
- Two stage engine and cutter drive transmission overload protection includes a continuously engaged friction-type torque limiter between transmission and differential and a load sensing electrical control which responds to drops in engine speed with appropriate reductions in travel speed to maintain maximum power to cutter.
- Three-speed select cutter transmission provides the cutter torque needed in tough applications. Operator can select speed range for optimum gradation.

Cutter Speeds – 3 Speed Select

- 1st. 108 rpm
- 2nd 151 rpm
- 3rd 209 rpm

Heavy gauge, 163,000 lb (74,091 kg) double capacity steel drive chain consists of twice the amount of sideplates and hardened pins and rollers. Heavy gauge steel chain case is partially filled with oil for chain lubrication.

Wheel & Drive Systems

Transmission: 2 speed

Travel Speed

0 - 12 mph (0 - 19.31 km/hr) 2-Wheel Drive

0 - 5 mph (0 - 8.04 km/hr) All Wheel Drive

Working Speed

0 - 254 ft/min (0 - 71.6 m/min) 2-Wheel Drive

0 - 190 ft/min (0 - 57.9 m/min) 4-Wheel Drive

0 - 190 ft/min (0 - 57.9 m/min) 4-Wheel Drive | Positive Assist

Front Axle - Steering drive axle with dual hydraulic cylinders, nose-mounted transmission, differential carrier and planetary wheel drives.

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

Motor - Fixed displacement, closed loop with high-pressure limiter.

Rear Axle - Unitized design incorporates two steerable hydraulic wheel motors which oscillate to provide the third point in machine suspension.

TiresFront - 26.5 x 25 (20PR)
.....Rear - 23.1-26 (10PR)

Operator's Station

- Selectable left or right operator's console with 90 degree rotation for maximum visibility.
- Machine stability and low vibration reduce operator fatigue.
- Highly-visible systems gauges and controls.

Steering

Four-wheel steering and four-wheel drive lets operator control coordinated steering (all wheels), crab steering, and steering of either leading pair of wheels.

Air System

Two 11 gal (41,71 L) reservoir, one engine-mounted compressor, approximately 13 ft³/min (0.62 m³/min, 8.2 bar/120 psi safety valve, quick couplers for hook-up on air impact tool.

Brakes

Heavy-duty, air-operated shoe brakes are provided on the front-wheel drive axle. Brakes meet both service and parking requirements for rubber tired construction equipment. Designed to meet SAE J1152 for rubber tired construction equipment.

Service – Air and hydrostatic system

Park – Fail-safe

Emergency – Air

Mainframe

Fabricated heavy-duty unitized-type construction. Engine and console mounted on mainframe.

VALUE ANALYSIS



FOUR-WHEEL STEERING

The RS425C's four-wheel steering enables an operator to easily and accurately control coordinated (all-wheel) steering, crab steering, or steering of either leading pair of wheels.



CUTTER DRIVE TORQUE LIMITER

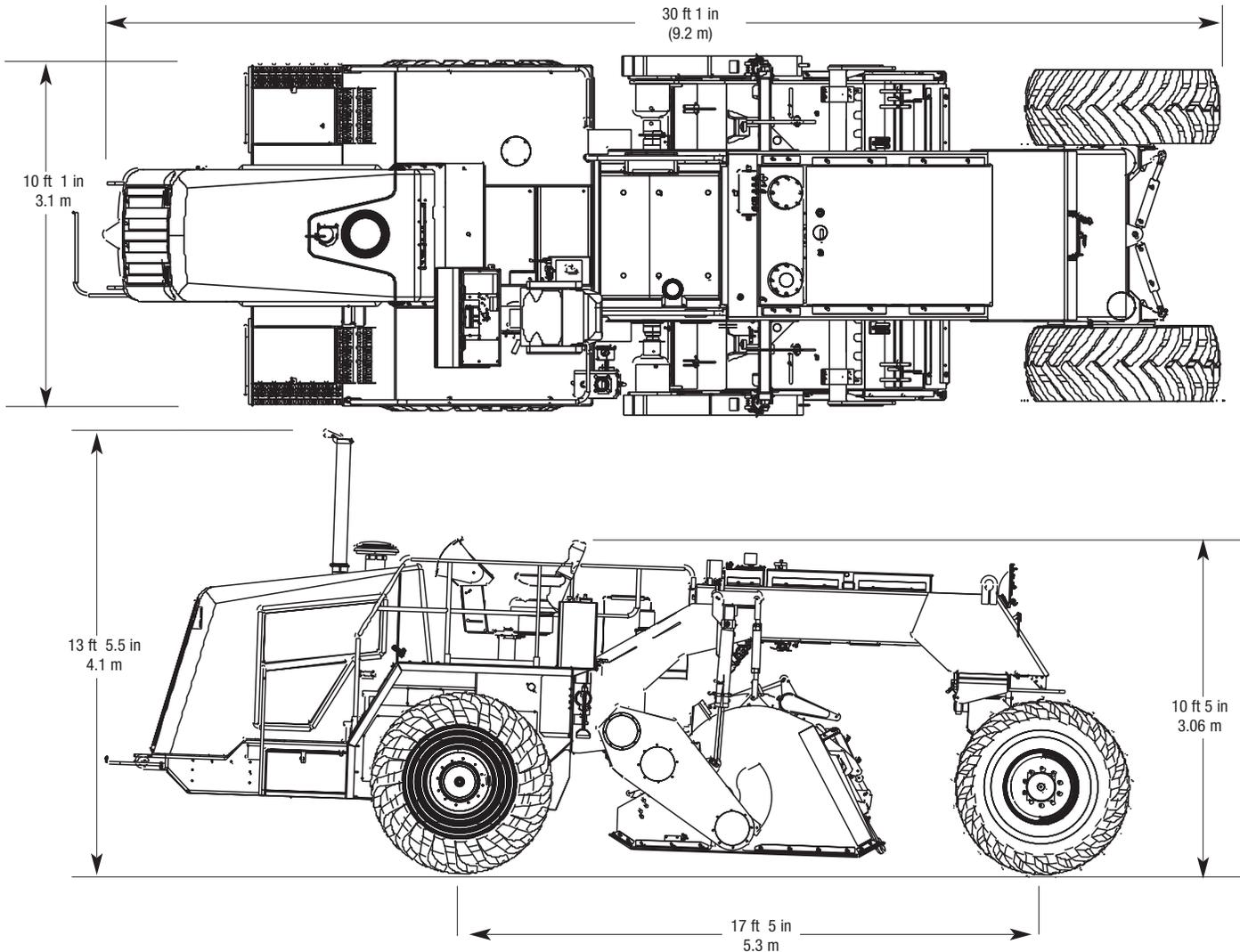
A continuously engaged friction-type torque limiter between the engine drive shaft and cutter transmission provides overload protection whenever the cutter encounters harsh work conditions.



SIMPLE MANUAL CONTROLS

The RS425C's simple and straight forward controls let an operator become familiar with the machine quickly and begin achieving high productivity almost immediately.

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Lights

Lighting systems include job site floods, rotating beacon, instrument, tail and headlights.

Service Refill Capacities

Fuel Tank.....	250 gal (946 L)
Hydraulic Oil Tank.....	50 gal (189.3 L)
Cooling System	18 gal (68.14 L)

Optional Equipment

- Bi-directional operation kit with upcut/downcut capability
- ROPS
- Water/emulsion application system 500 gal/min

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

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.

Weights and Dimensions

- Weight*49,000 lb (22,225.62 kg)
- Operating weight51,000 lb (23,132.78 kg)
- Wheel Base17 ft 5 in (5.31 m)
- Turning Radius21 ft (6.40 m)
- Overall Width10 ft 1 in (3.07 m)
- Overall Length30 ft 1 in (9.17 m)
- Overall Height (standard)10 ft 5.5 in (3.19 m)
(with ROPS)13 ft 3 in (4.04 m)

* Weight without A/B cutting capability
Dimensions will vary depending on options.