Material Transfer Vehicle
SB-1500

ENGINE
Tier 3, Caterpillar® C9 300 hp (224 kW) @ 2,200 rpm

OPERATING WEIGHT
67,240 lbs (30,500 kg)
**SB-1500 : At a Glance**

The Roadtec Shuttle Buggy® material transfer vehicle SB-1500 features a low weight and narrower wheel base. It can store up to 15 tons (13.6 mt) of asphalt mix, allowing haul vehicles to unload as soon as they arrive. This substantially reduces trucking costs. The SB-1500 features an end dump hopper or an optional windrow pickup head. It also features the patented anti-segregation auger which remixes materials for control of aggregate and temperature segregation.

**Important Benefits**

Non-uniform compaction, raveling and stripping can be traced back to temperature and aggregate differentials in the mix. However, the triple-pitch auger flighting design used in Roadtec Shuttle Buggy® MTV’s provides uniform remixing. The mixing action virtually eliminates temperature and particle segregation. Insuring a smoother, longer lasting end product.
Frame
The SB-1500 has an extremely strong frame that is fabricated, welded and assembled by Roadtec.

Have the Security of a Wear Guarantee
All chains, sprockets, liners, bearings, as well as the remixing auger are warrantied up to 250,000 tons (227,000 mt) or 1,500 hours of operation.

Parts Made for Durability
All conveyors are outfitted with durable roller bushing chain. Slats are made of abrasion-resistant steel, and we install thick wear plate linings on the conveyor floors. The floor of the paver loading conveyor is insulated against heat loss. Rails installed at the bottom of this conveyor help protect it from any damage that could be caused by impact with the paver.

Front Hopper Performance Features
Sized for mass discharge from standard haul trucks, the front hopper allows trucks to unload fast. A vibrating bottom plate in the hopper prevents material build-up. Heavy-duty, swiveling support casters under the hopper assure smooth movement. Ground operators can adjust the hopper and baffle the position from either side.

Better Maintenance Access
Engine access is gained by hydraulically lifting the one-piece hood. There are hinged access doors that make the oil cooler, radiator and pumps easy to reach. Hydraulically operated clean-out doors are found at each conveyor.

Options
- Road Light Package – Six 12v Road Lights and Warning Beacon
- Premium Light Package – Includes Five 500W Halogen Lights, Warning Beacon and 120v Outlets Mounted At Machine Corners
- Automated Lubrication System
- Truck Hitch Instead of Push Rollers
- Release Agent Spray-Down System – Includes 55 (208 l) Gallon Tank, Pump, Retractable Hose Reel with 50’ (15,240 mm) Hose
- Windrow Pick Up Head Instead of Dump Hopper
- 4kW Continuous Duty Hydraulic Generator

Temperature Segregation during transport cannot be avoided. Without remixing, the colder material will screed out together and form a potential trouble spot.

The SB-1500 allows non-stop paving, which leads to a much smoother surface.

With a storage capacity of 15 tons (13.6 mt), the SB-1500 allows the contractor to smooth out truck cycles and reduce haul costs.
**SPECIFICATIONS**

**ENGINE**
- Tier 3, Caterpillar® C9 300 hp (224 kW) @ 2,200 rpm

**WEIGHT**
- 67,240 lbs (30,500 kg)

**COOLING SYSTEM**
- Dual, quiet operation fans

**ELECTRICAL SYSTEM**
- Two 4D batteries & 115 amp alternator
- 12v system with master disconnect switches.
- Electric-over-hydraulic solenoids with manual override.

**PROPEL SYSTEM**
- Hydrostatic drive
- Continuously variable speed control with two speed ranges.

**SPEED**
- Working: 0-2.8 mph (0-4.5 kph)
- Travel: 0-11.4 mph (0-18.4 kph)

**BRAKE SYSTEM**
- Hydrodynamic disc caliper brakes, and parking brake

**TIRES**
- Large, high-flotation - 18” x 25” (457 mm x 635 mm)

**OPERATOR STATIONS**
- Two operator stations with deluxe adjustable seats.
- Center control console pivots to right or left

**GROUND CONTROLS**
- (2) front dump hopper control boxes

**FUME EXTRACTION SYSTEM**
- Two blowers. Fold-down 10” (254 mm) exhaust pipes

**TRUCK DUMP HOPPER**
- Front hopper has swivel support casters. Vibrating floor plate.
- 92” (2,794 mm) wide truck opening.
- Hydraulic, adjustable push rollers.
- Hydraulic hopper baffle adjustable for optimal material flow.

**DUMP HOPPER TRANSVERSE AUGER**
- 22” (559 mm) o.d. cast, segmented auger.

**DUMP HOPPER UNLOADING AUGER**
- Drag conveyor with 600 tph (544 mtpm) capacity.
- Dual roller bushing chain.
- Weld-on flights 5/8” (16 mm) thick, 5 9/16” (142 mm) wide x 33 3/4” (857 mm) long. Ni-Hard liner plates.

**SURGE BIN**
- 15 tons (13.6 mt) storage capacity.

**REMIXING AUGER IN SURGE BIN**
- 22” (559 mm) o.d. cast, segmented augers

**SURGE BIN UNLOADING AUGER**
- Drag conveyor with 600 tph (544 mtpm) capacity.
- Dual roller bushing chain.
- Weld-on flights 5/8” (16 mm) thick, 7” (178 mm) wide x 35 1/2 (902 mm) long. Ni-Hard liner plates are replaceable.

**PAVER LOADING AUGER**
- Drag conveyor with 600 tph (544 mtpm) capacity.
- Dual roller bushing chain.
- Conveyor flights welded to the chain are 1/2” (12.7 mm) thick, 4 3/4” (121 mm) wide and 30” (762 mm) long. Conveyor has bolted 1/2” (12.7 mm) AR500 replaceable floor plates and doors.
- Controls interlock with surge bin unloading conveyor.

**SERVICE CAPACITIES**
- Fuel tank ...................................................... 110 gal (416 l)
- Hopper ......................................................... 15 tons (13.6 mt)
- Material ....................................................... 110 lbs/cu ft (1,762 kg/cu m)
- Hydraulic tank ........................................... 80 gal (303 l)

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Dimensions in brackets are mm.

Specifications are subject to change without notice.

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