MATERIAL TRANSFER VEHICLE

MtV-1000D

Material Transfer Vehicle

MTV-1000

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

OPERATING WEIGHT
50,500 lbs (22,906 kg)
MTV-1000: At a Glance
The MTV-1000 material transfer vehicle, like the Shuttle Buggy® models, is capable of transferring while reblanding paving material to allow for continuous in-line paving. The patented, offset gravity transfer chute provides reblanding of asphalt materials just before they are delivered to the paver, helping to fight segregation. With an optional windrow attachment, the MTV-1000 can pick up material from a windrow and transfer it to the paver.

Important Benefits
Non-uniform compaction, raveling and stripping can be traced back to temperature differentials in the mix. However, the MTV-1000 with its re-mixing technology can eliminate differences in mix temperature and material segregation. The MTV-1000 uses the transition between the truck unloading and the paver loading conveyors as a remixing point. Larger cooler aggregate that may have rolled to the sides of the conveyor are forced back to the center and redistributed throughout the mix.
Frame
The MTV-1000 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 warranted 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

Auxiliary Power
- 4 kW Continuous Duty Hydraulic Generator

Additional Lighting
- Road Light Package – Includes Six 12v Road Lights and Warning Beacon
- Night Light Package – Includes Five 500W Halogen Lights, and Four 120v Outlets Mounted At Machine Corners

Miscellaneous
- Automated Lubrication System
- Truck Hitch Instead of Push Rollers
- Release Agent Spray-Down System
- Windrow Pick Up Head Instead of Dump Hopper
- Triple Pitch Augers in Dump Hopper

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

Roadtec material transfer vehicles help you build smooth, unsegregated, durable roads.
**ENGINE**
- Tier 3, Caterpillar® C9 300 hp (224 kW) @ 2,200 rpm

**WEIGHTS**
- 50,500 lbs (22,906 kg)

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

**ELECTRICAL SYSTEM**
- Standard system includes heavy-duty 90-amp alternator, 24v starting system and circuit breaker protection of all systems.

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

**SPEED**
- Working: 0-2.3 mph (0-3.7 kph)
- Travel: 0-9.6 mph (15.4 kph)

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

**TIRES**
- Rock Lug - 17.5" x 25" (445 mm x 635 mm)

**OPERATOR STATIONS**
- Operator positions on both sides.
- Control panel swivels for use from either station allowing for same-lane or adjacent-lane operation from either side.

**TRUCK DUMP HOPPER**
- Front hopper has swivel support casters. Vibrating floor plate. 9'2" (2,794 mm) wide truck opening (adjustable width option available)
- Hydraulic, adjustable push rollers.
- Hydraulic front hopper baffle adjustable for optimal material flow.

**DUMP HOPPER TRANSVERSE AUGER (C1)**
- 22" (559 mm) o.d. cast, segmented auger.

**DUMP HOPPER UNLOADING CONVEYOR**
- Drag conveyor with 600 tph (544 mtph) capacity.
- Dual roller bushing chain.
- Heavy-duty flights 5/8" (1,644 mm) thick, 5 9/16" (142 mm) wide, and 33 3/4" (857 mm) long

**PAVER LOADING CONVEYOR (C3)**
- Drag conveyor with 600 tph (544 mtph) capacity.
- Dual roller bushing chain.
- 1/2" (12.7 mm) thick, 4 3/4" (121 mm) wide and 30" (762 mm) long.
- 500 BHN bolted replaceable floor plates and doors.
- Controls interlock with surge bin unloading conveyor.
- Conveyor can be positioned up to 55° to either side of center.
- Conveyor guard rails.

**SERVICE CAPACITIES**
- Fuel Tank ................................................................. 120 gal (454 l)
- Hydraulic Fluid Tank ............................................. 80 gal (303 l)

Specifications are subject to change without notice.
Dimensions in brackets are mm.

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