



VSS STV® Slurry Transfer Vehicle

VSS Macropaver® is introducing another major breakthrough in Road Maintenance.

The What:

Start Bidding Continuous Projects with your Truck Mount Slurry Machines. The **STV** is designed to work with all Major Brands of Truck Mounted Slurry Machines. With the ability of loading aggregate at up to 8 tons/minute and both water and emulsion at 200 gallons/minute, while applying slurry or microsurfacing.

The Why:

The Road Maintenance industry is advancing opportunities not thought of before. Costs are driving both agencies and private owners to consider new ideas and technologies for maintaining their roads. Entire budgets are being dedicated to road maintenance rather than costly overlay.

VSS Macropaver has long been a leader in Slurry and Microsurfacing machine designs and applications. The **STV** takes the proven technology of the Material Transfer Vehicles (MTV) already used in the Road Construction Industry and applies it to road maintenance. Minor fit-up requirements will allow you to make your Truck Mounted Slurry Machines into a versatile Continuous or Standard slurry machine. Now, contractors can *quickly, reliably and safely* operate their Truck Mount Slurry Machines as Continuous Machines.

For less than half the cost of continuous machines, the STV answers your continuous application needs. The STV will allow you to seize this opportunity.



VSS STV[®]

Slurry Transfer Vehicle

AGGREGATE FEED

The aggregate is fed into STV receiving hopper from a conveyor equipped nurse unit. Aggregate transfer capacity is 8 tons/minute (7.2 metric tones/minute) using a 30" (762 mm) wide flexible side-wall conveyor belt.

The upper section of the conveyor folds for transport.

EMULSION FEED

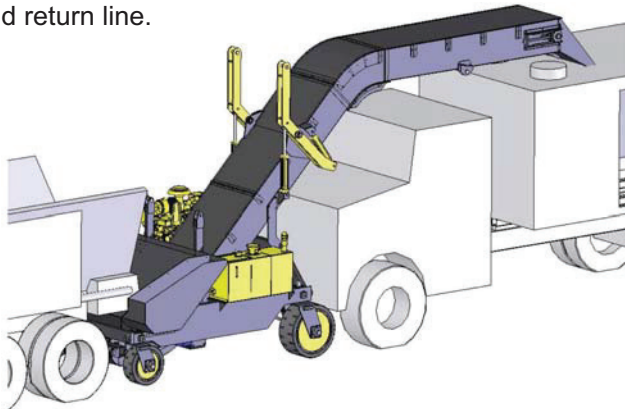
The emulsion is fed into STV emulsion pump via hose from the nurse unit tank. Emulsion transfer capacity is 200 gallons/minute (750 liters/minute) using a hydraulically driven 3" self-priming centrifugal pump.

WATER FEED

The water is fed into STV water pump via hose from the nurse unit tank. Water transfer capacity is 200 gallons/minute (750 liters/minute) using a hydraulically driven 3" self-priming centrifugal pump.

HYDRAULIC SYSTEM

The Hydraulic System is driven by the engine coupled to a variable displacement hydraulic pump which develops approximately 40 gallon/minute (150 liters/minute) @ 2400 RPM. The pressure and flow compensated piston type pump supplies all circuits. The hydraulic reservoir capacity is 40-gallon (150 liter) with magnetic suction line screen and return line.



POWER PLANT

A water-cooled, Caterpillar turbo-charged 4-cylinder diesel engine generating 66 horsepower (50kW) @ 2800 RPM. Engine is US EPA Tier-3 emission compliant. All measured functions are included on the engine control panel with displays for shut-downs for low oil pressure, high coolant temperature and low coolant pressure. The engine speed can be manually controlled from the panel. Engine fuel is supplied from a 20 gallon (75 liter) tank.

STV CONTROL SYSTEM

STV is controlled by a CAN bus system, with bright-screen operator display/control panel. The Panel can be remotely located in truck cab of the slurry machine and controls the following systems:

- Brake system on/off
- Conveyor on/off and speed
- Conveyor RPM display
- Conveyor folding
- Conveyor and truck hitch float
- Emulsion pump on/off and speed
- Engine hi/lo speed
- Fuel level display
- Nurse unit hitch positioning
- Safety interlocks for brakes
- Slurry machine tanks display
- Truck hitch positioning/latching
- Water pump on/off speed

PROVEN TECHNOLOGY

The technology used on the STV allows you to make quick changes from a continuous mode to a standard truck-mounted mode for doing cul-de-sacs and laterals off feeder streets. Explore with VSS Macropaver the steps required to make this happen.

STOCKPILE/JOBSITE LOADER

The **STV** can also be used as a loader at the stockpile site, eliminating the need for a front end loader, emulsion and water storage tankers - just pull up to the **STV** with your nurse truck or trailer and load your slurry machine without putting any aggregate on the ground. Also, the **STV** can be used to load at the jobsite, saving drive time to and from the stockpile.



VSS reserves the right to make changes in specifications at any time as part of our continuing program of product improvement. © 2020