



# **SuperiorRoads**

SOLUTIONS



**POWER  
PERFORMANCE  
RELIABILITY  
USABILITY**





### POWERFUL SWEEPING SYSTEM

The S3 is the most powerful sweeper in the industry - capable of taking on the toughest milling operations. That's because of its powerful engine and the four dedicated hydraulic pumps - one pump for each of the gutter brooms, the main broom and the elevator. This provides maximum torque. The electric over hydraulic controls give you the flexibility you need to operate your sweeper at maximum performance.

### ADJUSTABLE, FLOATING BROOMS

All brooms are free floating and fully adjustable and are equipped with parallel linkage to follow the contours of the road.

### UNRIVALED DUST CONTROL

Our patented water saver system applies droplets of water to the tips of the broom where the moisture is needed, reducing the amount of water that has to be sprayed onto the street, and the amount of dust. And the 370 gallon water capacity tank means you'll sweep a long time between fill-ups. The S3 is PM10 Certified.

### DURABLE ELEVATOR

Durable squeegee-type elevator puts more debris into the hopper quickly and efficiently with less maintenance. You choose between a belt-type conveyor and a chain conveyor, depending on the type of sweeping you are doing.

### FUEL EFFICIENT, LOW OPERATING & MAINTENANCE COSTS, NO GREASE POINTS

The simple design keeps maintenance to a minimum. The 80 hp engine has a proven track record in industrial applications, delivering high performance and fuel efficiency.

### MANEUVERABILITY, VISIBILITY & QUIET COMFORT

The S3 offers outstanding visibility, and a comfortable ride for operators. The highly maneuverable, cabover chassis makes even the tightest areas accessible. And everyone appreciates the quiet operation of our sweepers.

### LARGE DEBRIS HOPPER

Sweep longer between dumps with the 6 cubic yard volumetric hopper, one of the largest in the industry. The centre mounted hopper and conveyor configuration provides even load distribution.

### HOPPER LIFT SYSTEM

Hoppers need a tremendous amount of force to lift. That is why we use a direct lift system, and lift the hopper with the hydraulic cylinder and not the scissors. The scissors are used to guide the hopper. Dumping heights are infinitely variable from 21" to 138".

## SUPERIORROADS EQUIPMENT IS INNOVATIVE AND WELL THOUGHT OUT



The people at SuperiorRoads have more than 30 years of experience in building street sweeping and road maintenance equipment.

We build equipment that is user friendly, highly efficient, and has a straightforward design that is cost-effective and easy to maintain. Instead of following the competition, we believe in leading the way.

When we design a sweeper, we take time to think about the people who will be purchasing it and those who will be operating it. For the owner, that means our sweepers are cost-effective to purchase and they are built to last. The simple, straightforward design of the S3 allows for ease of maintenance and repair. The uncomplicated hydraulic systems and standardization of components make a durable sweeper capable of taking on the toughest sweeping jobs.

We also reduce maintenance costs and improve the quality of the sweeping jobs by minimizing the chance of inexperienced operators making incorrect adjustments.

*You get to choose - cabover or conventional chassis, single or dual operator steering.*



*The console is conveniently located between the operator stations. A single-button Start/Stop System allows the driver to operate sweeper functions without looking at the control panel.*



*Because the two large, 50" gutter brooms have their own dedicated hydraulic pump, they are reversible and can be adjusted left, right, up and down. The free-floating hydraulic suspension protects them from damage and ensures they have the correct contact with the road for the best possible sweeping job.*

*Fully-floating main broom works at variable speeds. In-cab down-pressure controls are offered as an option. However, Superior Roads recommends broom adjustments be made outside of the cab while operator has full view of the brooms and the sweeping pattern. This ensures the most efficient sweeping and longest broom life.*



# S3 Specifications



## General Specifications:

Sweeping path: 120"  
Overall height: 116"  
Overall length: 288"  
Width: 102"  
Empty weight: 20,400 lbs.  
Hopper capacity: 6.0 cu. yards volumetric  
Dump height max: 138"  
Wheelbase: 140"  
GVWR: 33,000 lbs/14,982 kg.

## Engine, Auxiliary:

Manufacturer: Yanmar  
Model: 4TNV98T, 4 cylinder turbo diesel  
Displacement: 3.3 liter  
Rated horsepower: 83 hp @ 2500 rpm  
Torque: 220 ft-lbs. @ 1200 rpm

## Auxiliary Engine/ Sweeper Instrumentation:

Multiview Electronic Display: Tachometer and hour meter, Engine oil pressure gauge, Engine coolant temperature gauge

Warning lights: elevator stall, low water, hydraulic temperature, hydraulic low level

## Hydraulic System:

Tank capacity: 60 gallons US  
Pump: Quad gear pump  
Pump Capacity: 40 gpm  
Controls: electric over hydraulic  
Hydraulic drive motors: all interchangeable  
Hydraulic fluid cooler: air to oil - electric fan

## Conveyor:

Squeegee-type heavy duty roller type system  
Hydraulic direct drive, variable speed and reversible  
Relief valve protected

## Debris Hopper:

Material volume: 6.0 cu yd volumetric  
Maximum dump height: 138"  
Minimum dump height: 21"  
Right side dumping: standard  
Dump capacity: 14,000 lbs / 6350 kg

## Main Broom:

Steel core: 60" long  
Hydraulic direct drive: variable and reversible  
Filled diameter: 36"  
Pressure and wear control

## Gutter Brooms:

Number of brooms: 2  
Diameter: 50"  
Number of segments: 4  
Hydraulic direct drive: reversible  
Adjustment: independent left, right, up & down  
Controls: pressure & wear  
Design: free-floating hydraulic suspension

## Water System:

Water Saver System  
Capacity: 370 Gallons  
Tank material: polyethylene  
Electric pump (2): Diaphragm, 3.0 gpm  
Water system material: non-corrosive



*All service points are easily accessible on SuperiorRoads equipment. And, our grease-less system means hours and hours of trouble-free operation.*



They say that imitation is the sincerest form of flattery. If that's the case, then we feel truly complimented because SuperiorRoads' copies are everywhere in the sweeping industry. Yet, we continue to provide the best and most reliable sweepers.

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We are continuously improving our products. Design, specifications and material are subject to change without notice.

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