

★ STARFIRE S-4XL



An Effectively Simple, Full-Featured 4.5 yd³ Mechanical Broom Sweeper Mounted on a Large, Non-CDL Chassis



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STEWART-AMOS
Sweeper Co.

★ STARFIRE S-4XL

- ▶ Highly Productive Performance
- ▶ Rugged and Reliable
- ▶ Extremely Maneuverable

The **S-4XL** is an extra heavy duty full-featured dual engine mechanical broom street sweeper now available with a robust 4.5 yd³ hopper. The **S-4XL** is mounted on a large conventional chassis that does not require a CDL to operate. Manufactured with reliability and simplicity in mind, the **S-4XL** is built for day-in and day-out continuous duty sweeping—from chip seal and millings to heavy spring clean-up along mile after mile of open highway.

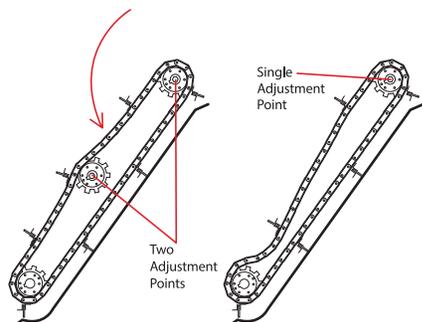
The environmentally conscious **S-4XL** is SCAQMD PM-10 Rule 1186 Certified.

At Stewart-Amos, we build every sweeper to the highest quality standards that incorporate our *effectively simple* design criteria. With ease of operation, service, and maintenance in mind, we engineer and select each component and system to be rugged, reliable, and uncomplicated while providing the most effective and highest sweeping performance.

We look forward to building one for you. Please contact your local dealer for more information or to arrange a demonstration.

Visit www.stewart-amos.com/dealer-locator to find a dealer in your area.

The Stewart-Amos Exclusive 3-Shaft Elevator



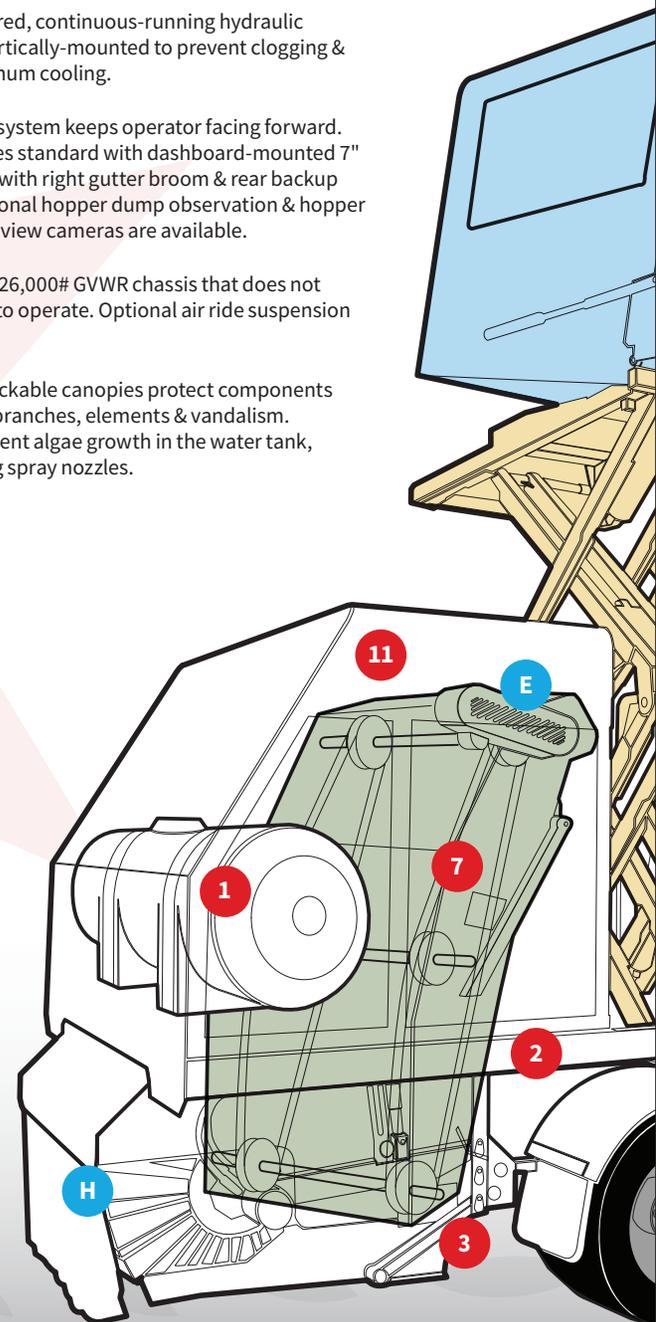
- 7 Extended Chain Life.** 3rd shaft provides proper return (upper) chain support. This allows chains to run as loose as possible, dramatically improving chain wear life versus similar 2-shaft designs.

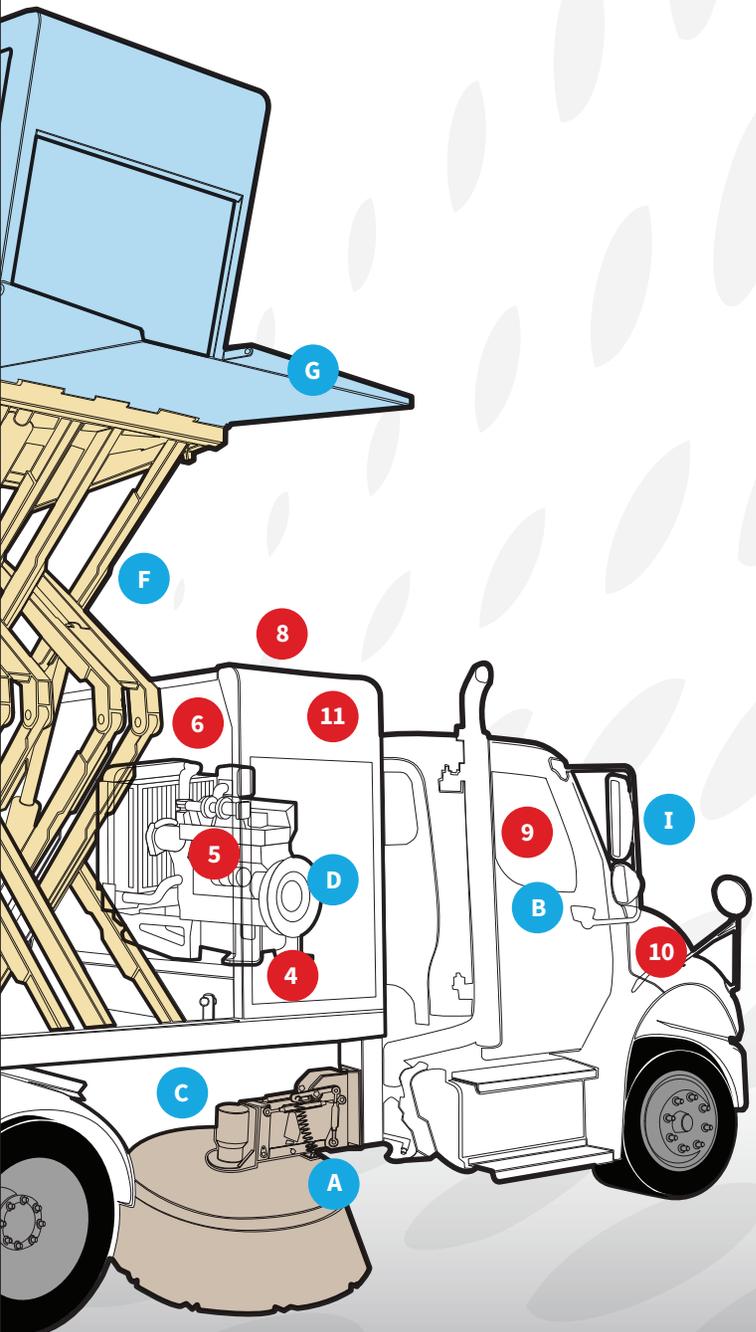
Reduced Maintenance Costs. 3rd shaft provides twice the number of chain adjustment points. Together with reduced chain wear, this significantly reduces maintenance downtime & costs versus 2-shaft designs.

Better Loading/Sweeping Performance. Eliminates chain clapping common in 2-shaft designs. 3rd shaft optimizes chain spacing, reduces clogging & ensures more effective sweeping of large, bulky debris.

S-4XL Standard Performance, Productivity & Safety Features:

- 1** 330 gallon polyethylene water tank with 3.6 gpm diaphragm pump & elevator wash-down system come standard. Spray nozzles: 2 per gutter broom, 4 on main broom & 4 on front spray bar.
- 2** One-piece all steel main frame consists of HD tube and thick liners. This structure allows for rugged & reliable durability.
- 3** Elevator auto pivots up to 10" over fixed obstructions preventing impact damage. No operator judgment required.
- 4** Cast iron gear pump is more tolerant of heat and contaminants, making it simple & economical to troubleshoot, repair or replace.
- 5** 59 HP Kubota turbo-charged diesel engine with high temperature/ low oil pressure auto shutdown. This engine is quiet & fuel efficient.
- 6** *Effectively simple* electric-over hydraulic system with built-in hydraulic pressure gauges for ease of service.
- 8** Electric-powered, continuous-running hydraulic oil cooler is vertically-mounted to prevent clogging & provide maximum cooling.
- 9** Color camera system keeps operator facing forward. Sweeper comes standard with dashboard-mounted 7" color monitor with right gutter broom & rear backup cameras. Optional hopper dump observation & hopper inside loading view cameras are available.
- 10** Mounted on a 26,000# GVWR chassis that does not require a CDL to operate. Optional air ride suspension is available.
- 11** Front & rear lockable canopies protect components from passing branches, elements & vandalism. Canopies prevent algae growth in the water tank, which can clog spray nozzles.





A Spring-Balanced Brooms



Spring-balanced, free-floating main & gutter brooms automatically apply correct surface pressure for maximum broom wear life. In-cab gutter broom electric tilt is standard.

B Ergonomic Controls



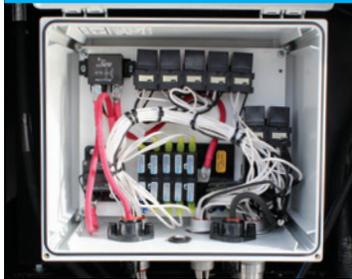
Vertically-mounted control panel is 6-way adjustable for easy & ergonomic viewing. One-touch sweeping allows for operator to preset functions. Brooms raise automatically in reverse.

C Case Drains



Case drains for all the hydraulic motors protect shaft seals from pressure leaks, minimizing repairs & replacements.

D Simplified Wiring



Electrical relays & fuses are protected from the elements in a sealed NEMA 4 enclosure. The wiring is heat stamped with numbers for easy identification.

E Off-set Drive Motor



Off-set hydraulic elevator drive motor is protected against impacts.

F Massive Lift Scissors



Massive double "X" style lift scissors & 4-corner hopper lift ensure exceptional hopper stability when dumping wet, unbalanced, or sticky debris.

G High Dump Hopper



Variable dump height hopper (up to 12' high) with 44" extra-long dump door easily reaches most dump trucks.

H Main Broom Channeler



Main broom channeler (optional) effectively sweeps large quantities or bulky & light debris (leaves/pine straw). Self-adjusting as main broom wears.

I The Starfire S-4XXL



The full-size S-4XXL offers the same performance & productivity features as the S-4XL but is mounted on a 33,000# GVWR chassis of your choice.

S-4XL SPECIFICATIONS

General:

Sweeping Path: 11' maximum
Debris Hopper: 4.5 cubic yards volumetric
Dump Height (variable): 17" to 144"
Turning Radius: 21.4'
Overall Length: 23' 4"
Overall Height: 112" including strobe lights
GVWR: 26,000# (33,000# for S-4XXL)

Main Broom:

Length: 58" Diameter: 36"
Type: Chevron poly-wire combo
Drive: Hydraulic motor/direct drive & reversible
Mounting: Full-floating, trailing arm, with shocks
Lift Control: Hydraulic, in-cab
Speed: Variable with auxiliary engine rpm
Dirt Shoes: Carbide, 2" wide

Dual Gutter Brooms:

Diameter: 54"
Type: Spring-balanced, auto wear compensating
Drive: Hydraulic & reversible
Mounting: Free-floating, trailing arm
Lift Control: Hydraulic, in-cab
Tilt Control: In-cab (electric)
Speed: Variable with auxiliary engine rpm
Dual Float Protected

Elevator:

Type: 9-flight squeegee with replaceable rubber edging
Liner: Bolt-in, 2 piece AR steel plates
Chain: HD constant radius roller chain
Sprockets: Urethane
Shafts: Three
Drive: Hydraulic, in-cab, & reversible
Lift Control: Hydraulic, in-cab
Elevator Stall Warning: Buzzer & light in-cab
Flushing System: Built-in

Debris Hopper:

Volumetric Capacity: 4.5 cubic yards
Dump Height (variable): 17" to 144"
Hopper Door Reach from Side: 44"
Inspection door, window & safety props standard
4 Corner hopper lift
Quad (4) double "X" style lift scissors

Hydraulic System:

Pump: Dual tandem gear
Capacity: 24 gpm @ 2000 rpm
Reservoir: 45 gallons
Hydraulic Oil Filter: 10 micron
Oil Cooler: Electric remote mounted
Integral hydraulic pressure gauges

Water Spray System:

Tank Capacity: 330 gallons
Construction: Polyethylene
Pump: 3.6 gpm electric diaphragm
Spray Nozzles:

- 4 on front spray bar
- 2 on each gutter broom
- 4 on main broom

Fill Hose: 20' with NST coupler with anti-siphon air gap
Water Pump Prefilter: 80 mesh

Electrical System

LED Lights: front & rear strobes; gutter brooms & rear-mounted working lights; license plate;
2 stop/turn/tail; & clearance lights
Backup alarm

Camera & Monitor Safety System:

7" Color monitor with right side gutter broom & rear backup color cameras

Instrumentation & Controls:

Sweeper function rocker switches
Elevator stall alarm & light
Auxiliary engine hour meter & tachometer
Electric throttle
Console night light

Sweeper Engine:

Make: Kubota V2403-M-T-E3 T4 Interim
Horsepower: 59 @ 2700 rpm
Type: in-line, four-cylinder turbo diesel

Paint:

Body: Standard white high-gloss urethane enamel
Undercarriage: Flat black enamel

Standard Accessories:

Auto pickup in reverse
Auto shutdown for high temperature/low pressure
Independent left & right gutter broom operation
50 gallon, common fuel tank - chassis dependent
Operators, parts & maintenance manuals

Limited Warranty Policy:

The Starfire S-4XL sweeper is guaranteed to be free from defects due to faulty materials and/or workmanship for a period of 12 months, or 1,000 hours (whichever occurs first). Liability is limited to replacement of defective parts at factory or authorized dealer. The standard warranty of the chassis manufacturer and auxiliary engine applies. *Please read full warranty statement for details and limitations.*

Available Options: (not included in base price)

Arrow board
Automatic lubrication systems
Bristle strips dirt-shoe brushes
Camera—hopper dump observation
Camera—hopper inside loading view
Camera lens washer per location
Epoxy hopper liner
Front mounted magnet
Hopper vibrator
Hydraulic system—high oil temperature warning
Hydraulic system—low oil level warning
Main broom motor guard
Main broom debris channeler
On-board high pressure spray wash-down system with hose reel; 50' of hose & wand
Reverse ultrasonic obstacle detection system
Strobe light protectors
Tier 4 FINAL auxiliary engine
Water pump; additional 3.6 gpm
Dual steer chassis

The Starfire S-4XL has built a reputation for rugged reliability and superior sweeping performance. Let us build one for you. Call your dealer today to arrange for a demonstration.

Available on:

HGACBuy
THE SMART PURCHASING SOLUTION

GSA Schedule
Contract GS-30F-021AA

Sold and Supported Locally by:

The Right Sweepers to Match Your Needs

Whatever your sweeping challenge, Stewart-Amos has the right sweeper to match your needs. We offer a full line of *effectively simple* mechanical broom and regenerative air street sweepers.


STEWART-AMOS
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