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Bortek  
INDUSTRIES, INC.  
PROTECTION  
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## STARFIRE S-4

**From chip seal and milling operations to heavy spring clean-up, the Stewart-Amos Sweeper Co.'s Starfire S-4 can handle it.**

The S-4 is a four wheel, dual engine, mechanical broom street sweeper that has a compact design, but is as productive as sweepers mounted on larger trucks.

Manufactured with reliability and simplicity in mind, the S-4 is built for day-in and day-out continuous duty sweeping. The short wheelbase chassis combines tight maneuverability like a 3-wheel sweeper, yet is still capable of traveling at highway speeds between job-sites.

### The benefits of the Starfire S-4 include:

- 4.0 Cubic Yard Hopper
- High Performance Sweeping
- Large Volume Dust Suppression
- Variable Height Dumping
- Great Maneuverability and Mobility
- Rugged Construction
- Extremely Fuel Efficient
- Front & Rear Canopy Enclosures Maximize Component Protection
- Three Shaft Elevator Design
- Ease of Maintenance
- Simplicity of Design
- Remarkably Quiet
- Safety Monitoring Camera System
- PM-10 Certified - Rule 1186
- Quad (4) "X" Style Hopper Scissor Lift
- 4 Corner Hopper Lift
- Spring Balanced Brooms Auto Compensate for Wear
- Proudly made in the U.S.A. 

**The Starfire S-4 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.**

**No CDL License Required**



10ft. 2in. Dump Height

Call toll free  
1-800-626-7835

[bortekindustries.com](http://bortekindustries.com)

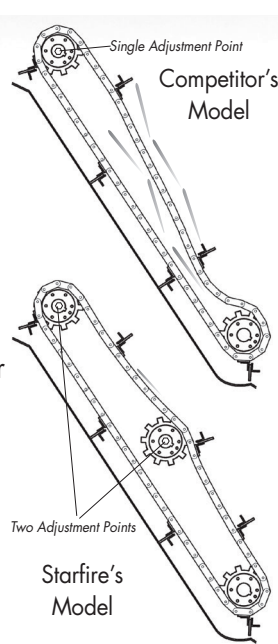
# Exclusive 3-Shaft Elevator

## BENEFITS:

**LONGER LASTING.** 3rd shaft ensures just the right amount of upper chain support and tension. Extends chains wear life and eliminates chain slapping.

**REDUCED MAINTENANCE COSTS.** 3rd shaft doubles amount of available chain adjustments. This and optimum upper chain support reduces chain wear and need to remove chain links by more than 50%.

**BETTER LOADING PERFORMANCE.** Maintains unrestricted debris movement. 3rd shaft maintains optimum chain spacing ensuring effective sweeping of large/bulky debris to minimize clogging.



Massive quad (4) "X" style lift scissors with four corner lift provide exceptional hopper stability especially when dumping wet, unbalanced or sticky debris.

# S-4 SPECIFICATIONS

### General:

Sweeping Path: 10' maximum  
Debris Hopper: 4.0 cubic yards volumetric  
Dump Height (variable): 16" to 122"  
Turning Radius\*: 18' 6"  
Overall Length\*: 22'  
Overall Height\*: 102.5" including Strobe Lights  
GVWR\*: 19,500#

### Main Broom:

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

### Dual Gutter Brooms:

Diameter: 42"  
Type: Spring balanced, auto wear compensating  
Drive: Hydraulic and reversible  
Mounting: Free-floating, trailing arm  
Lift Control: Hydraulic, in-cab  
Tilt control; in-cab (electric)  
Speed: Variable with aux. engine rpm  
Dual Float Protected

### Elevator System:

Type: 7-flight squeegee with replaceable rubber edging  
Liner: Bolt-in, 2 piece AR steel plates  
Chain: HD constant radius roller chain  
Sprockets: Urethane  
Shafts: Three (see side bar above)  
Drive: Hydraulic, in-cab, and reversible  
Lift Control: Hydraulic, in-cab  
Elevator Jam Warning: Buzzer and light in-cab  
Flushing System: Built-in

### Debris Hopper:

Volumetric Capacity: 4.0 cubic yards  
Dump Height (variable): 16" to 122"  
Hopper Door Reach from Side: 44"  
Inspection door, window, and safety props  
4 Corner hopper lift  
Quad (4) "X" style lift scissors

### Hydraulic System:

Pump: Dual tandem gear  
Capacity: 22 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: 200 gallons  
Construction: Polyethylene  
Mounting: Removable  
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:

Alternator: 120 AMP Voltage: 12 volt  
LED Lights: front and rear strobes; gutter brooms and rear mounted working lights; license plate; 2 stop/turn/tail; and clearance lights  
Backup alarm

### Camera and Monitor Safety System:

7" Color monitor with right side gutter broom and rear mounted color cameras

### Instrumentation and Controls:

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

### Sweeper Engine:

Make: Kubota V2403-M-TE3  
Tier 3 Compliant/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 and right gutter broom operation  
30 gallon, common fuel tank  
Operators, parts and maintenance manuals

### Limited Warranty Policy:

The Starfire S-4 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 defect parts at factory or authorized dealer. The standard warranty of the chassis manufacturer and auxiliary engine applies.

### Available Options: (not included in base price)

Arrow Board  
Strobe/Beacon protector  
Front mounted magnet  
Brush style dirt shoes  
100 gallon auxiliary water tank  
Dual 3.6 GPM Water pumps for 7.2 GPM  
Epoxy Hopper liner  
Stainless steel hopper  
Extended warranties  
Body paint colors  
Auto Lube System  
Hopper Vibrator  
On-Board Hi-Pressure Wash down System (w/ 50' hose and wand)  
Others upon request  
Wide variety of available chassis\*\*  
\*\*Consult your dealer for details

• Please read actual warranty for details and limitations



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