

## STAINLESS STEEL SPREADER SPECIFICATIONS

**Spreader option:** Unit shall be equipped with a stainless steel under tailgate spreader with a self-leveling type spinner assembly. Spreader and spinner shall meet the following specifications and be installed. Mounting location of spreader and spinner to be determined at pre-build meeting.

NOTE: All references made to stainless steel shall be AISI Type 304 stainless steel.

7 gauge 0.1875-inch

10 gauge 0.1350 inch

Per EQN-9, EQN-3A

All nuts, bolts and hardware brackets, or angle stock, unless otherwise specified, shall be stainless steel (no substitutes), with all edges deburred and rounded.

### DIMENSIONS:

Overall width of vertical trough end plate shall be 96 inch.

Overall height shall be approximately 18 inch.

Overall depth shall be approximately 18 inch.

Inside trough width opening shall be 81 inch + or - ½ inch. Per EQN-9.

### TOP COVER:

Two-position top cover. When raised, normal spread mode. When lowered with spreader not in use, allows full dump-over capability.

Spreader material, full width, shall be a minimum 0.135-inch thick stainless steel.

Properly secured to prevent material leakage in spreading positions.

### AUGER:

Per: EQN-6, EQN-3 and EQN-29, auger shall be bevel cut. (Material is specified in drawing.)

### AUGER BEARING:

1-1/4-inch shaft diameter.

2 bolt flanged type ends self-aligning, anti-friction, thrust, re-lube type, with retaining collar with set screw with Zerk fitting cover, eccentric type, or equal, per EQN- 10.

### AUGER MOTOR:

NOTE: The auger motor is a standard, no substitute. It is the responsibility of the successful Vendor to ensure that the spreader's assembly is designed and manufactured in such a way as to ensure compatibility and serviceability with the Department's hydraulic system/s.

Auger Motor: White Hydraulics: Model RE (no substitution), with a 50-pulse auger motor sensor installed. Kit # W80509

Displacement cu in: 32

Housing: 08 (A style 4 bolt)

Output Shaft: 14 1-1/4 inch straight

Rotation: 1 clockwise

Options: 25 Options

Note: Porting is 7/8 inch 'o' ring

Fitting Per EQN-9

STAINLESS STEEL SPREADER, URETHANE SPINNER ASSEMBLY:

Spinner frame (Hanging) self-leveling type

Urethane spinner disc shall be per EQN-9B No Substitute without prior approval.

DISC:

Ref: C.U.E. Inc. Spinner Part #CC1229S per EQN-9B (No substitute without prior approval).

HUB:

REF: C.U.E., Inc., hub Part #20559-0650 (4 bolt type hub mounted to spinner disc with locking type nuts for use with spinner motor (bolt pattern shall match for referenced spinner). No Substitute without prior approval

SPINNER MOTOR:

Gerotor type hydraulic drive motor

Hydraulic port opening: ½ inch NPT.

Flange mount: 4 bolt.

Shaft keyway: 1 inch woodruff.

Displacement: 3.0 cubic inch/rev. maximum.

PAINT:

All carbon steel surfaces shall be properly prepared by thorough cleaning, removal of dirt, grease, rust and corrosion and shall be painted with proper undercoat and a sealer. All stainless steel shall be unpainted.

COUPLERS:

One (1) 1/2-inch spinner - 5100-S5-10B Aeroquip female or Parker 6125-08 female, no substitute.

One (1) 3/4-inch auger - 5100-S5-12B Aeroquip female or Parker 6125-12 female, no substitute.

One (1) 1 inch return - 5100-S5-16B Aeroquip female or Parker 6125-16 female, no substitute.

Hydraulic couplers shall be anodized steel.

NOTE: All necessary hardware and fittings shall be supplied to ensure that the system is fully functional.

SAFETY:

Appropriate decals, instructional and WARNING/S, shall be provided and fixed.

**There shall be a lock out system that will prevent the lower auger inspection pan from being lowered (opened) while the hydraulic line is connected to the auger motor.**

Note: Lock out to be plumbed with 3/4 inch hoses and couplers.

TROUGH: Per EQN-9

There shall be hinged trough bottom with spring loaded latches.

Bottom shall be separate from the anti-spill/cover.

Separate one piece bottom shall be full spreader width, minimum 7-gauge stainless steel.

Separate anti-skid/cover plate shall be minimum 10-gauge stainless steel.

Bottom shall be properly secured to prevent material leakage in spreading positions.

Bottom shall be hinged by bolts or pins (stainless steel) with a minimum of three (3) center hinge points and two (2) end points. End pieces, one piece formed front wall and rear wall, shall be minimum seven (7) gauge stainless steel.

ANTI-FLOW PLATE OPENING:

Anti-flow plate shall be mounted over the trough opening.

Anti-flow plate shall be arched to provide a minimum of 3/4-inch clearance between the shield and the outer periphery of the auger flight. Anti-flow plate shall butt against end plate. Anti-flow plate shall be minimum 10-gauge stainless steel. Anti-flow plate length shall be 14 inch.

Discharge opening shall be approximately 6-inch-wide by 7-inch-long rectangular opening.

Discharge opening shall begin from end plate on roadside.

QUICK DETACH:

There shall be quick detach bracket per EQN-3A.