

SPECIFICATIONS
AIR-FLO PSV-9 STAINLESS SPREADER

INTENT:

It is the intent of these specifications to describe a 4 cubic yard spreader. All hopper spreaders are completely self-contained, ultra-durable spreader units designed for ice and snow control. The rugged design allows for use with salt, sand and other materials. The complete assembly mounts easily on dump and platform trucks making it ideal for municipalities, shopping malls, industries, hospitals and private contractors.

MATERIAL HOPPER:

Electrically welded stainless steel ends and sides sloped at 45° are constructed with channel formed top edges. Each side of the hopper has three Stainless steel vertical supports to add extra strength to the unit. There shall be 4 lift hooks welded to the upper body to allow for easy loading and unloading. The floor and sills are constructed of stainless steel; sills have top edges formed down to protect the conveyor chain. An inverted V is installed over conveyor chain to eliminate the chance of tunneling.

CONVEYOR:

The conveyor is made of 14-3/8" wide all-steel Pintle chain with 1/4" x 1" cross bars. Chain strength is 11,000 lbs. per strand; 22,000 lbs. total per chain. The idler and drive sprockets are 6-tooth flame cut, on 1-1/4" and 1-1/8" diameter shafts respectively. The conveyor chain has an adjustment range of 3-1/2". Bronze bushings on the idler shafts can be lubricated via a machined pathway. The drive shaft has a heavy-duty, sealed, self-aligning ball bearings with grease fittings.

CONVEYOR GEAR CASE:

Gear is constructed of aluminum bronze; worm gear is hardened steel and ground. Housing is made of durable cast iron. Gear ratio is 20:1 with 1" input shaft and 1-1/8" output shaft on tapered roller bearings.

FEEDGATE:

Lever operated with a friction lock for accurate adjustment. Gate uses a heavy-duty flap to prevent damage to the conveyor chain and prevent material jamming.

SPINNER CHUTE ASSEMBLY:

An 18" poly spinner disc with six formed vanes is connected to a 1" diameter shaft secured on two pillow block bearings. The spreading material is guided from the conveyor to the spinner plate through an enclosed stainless steel chute with external deflectors. Adjustable deflectors allow for complete directional spread radius ranges from 4' to 40'. The extra wide rear deflector protects the rear and under carriage of the vehicle.

ENGINE:

Heavy duty 10.5 HP minimum air cooled, 4-cycle synchro-balanced industrial / commercial gasoline engine. Engine comes complete with alternator and 12 volt electric starter with in-cab start/stop, battery and electric throttle control. Entire engine is completely protected by the convenient continuous hinged hood.

ELECTRIC THROTTLE CONTROL:

Throttle control unit allows for full-range of throttle settings, including idle and full choke, via the in-cab hopper control panel. Use of electric throttle control eliminates cable freezing, binding and breaking.

11/14/08

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CLUTCH:

12 volt DC electric clutch has a three-position in-cab switch, for greater control and material economy. Also allows for low speed operation and spot spreading.

DUAL ELECTRIC MOTOR OPTION:

Separate electric motors power the conveyor and spinner through separate sprocket and stainless steel chain drive assemblies. Highly efficient conveyor drive allows for a low amp draw. Electric motors and chain drive assemblies are completely protected by a continuous stainless steel hinged hood.

In-cab hopper control allows the conveyor and spinner control to be completely variable and independent of each other. Electric controls eliminate cable freezing, binding and breaking.

DUAL HYDRAULIC MOTOR OPTION:

Separate hydraulic motors power the conveyor and spinner. Both motors are completely variable and independent of each other and each are directly coupled to the conveyor and spinner shaft, eliminating the need for clutch and / or chain assemblies.

Hopper Length	Top Width	Gusset Base Width	Height	Overall Length	Overall Weight	Capacity	Side Slope	Conveyor Width
9'	70"	40 1/4"	44 1/2"	122 1/2"	1,375 lbs.	4 cu. yd.	45°	15 5/8"

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