

TARCO® SALT & PEPPER PRODUCT GUIDE



THE BASICS:

The TARCO® Salt & Pepper is heavy-duty type material spreader that can be used for a variety of medium to heavy duty truck applications.

Typical buyers of these types of machines include municipalities, contractors, landscapers, small businesses, etc.

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CONSTRUCTION:

The Salt & Pepper is available in two types of construction:

- 1.) 12 gauge type 304 stainless steel
- 2.) 12 gauge hot roll steel (A36) – Painted Yellow **OR** Orange

The hopper body is fully welded and the hopper sides and conveyor tray are formed from one sheet of steel. This is a huge selling point with the Salt & Pepper. This allows the hopper body to be essentially formed from 4 sheets of steel allowing for a rugged construction. Having the sides constructed from one sheet of steel also eliminates one horizontal welded seam that connects the conveyor tray to the sides. Horizontal welded seams are a possible point for the spreader to rust/crack or warp over time.

The hopper features four (4) heavy duty lifting loops at each corner for lifting and securing the unit to the vehicle.

The hopper features three side gussets on hopper lengths (8' & 9') and four gussets on 10' length hoppers.

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CONSTRUCTION CONTNUED:

The Salt & Pepper hopper features 45-degree side sheets, which allows for a smooth flow of material to the conveyor.

The hopper is support on formed, 2” wide cross sills that are evenly spaced on hopper bottom.

The hopper features a fully adjustable flow gate that is operated through a chain and key slot arrangement that allows for fully adjustment and features a rubber wiper and keeper for future replacement.



CONVEYOR DRIVE:

The Salt & Pepper features a heavy duty U.S. manufactured Durst brand 20:1 gearbox that drives the entire conveyor assembly.

The gearbox shaft is 1-1/4 diameter and features two (2) six tooth sprockets that are keyed and set screwed to the drive shaft.

The conveyor assembly is a massive 15” wide for maximum flow of material and to help eliminate material bridging.

The conveyor chain for gas & hydraulic powered units is our patented Chevron Conveyor Chain system (see picture above). The chevron conveyor chain allows a smooth non-pulsated flow of material to the discharge chute/spinner assembly. (Total Tensile strength: 21,000 lbs)

The conveyor chain rides on a 10 gauge hot roll abrasion resistant wear plate that is easily removable.



CONVEYOR DRIVE CONTINUED:

The Salt & Pepper features a rear spring-loaded idler take up assembly that provides over 3” of adjustment.

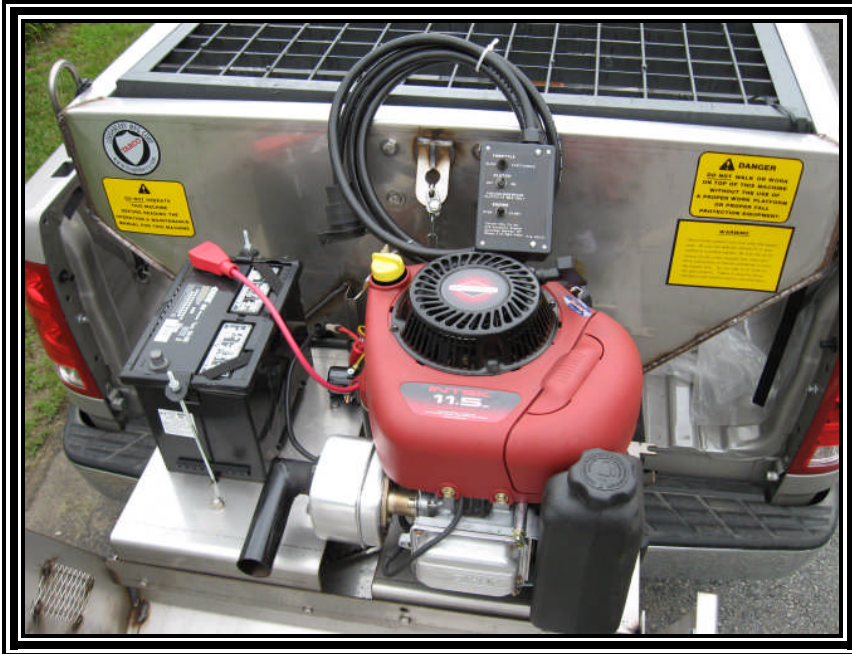
The idler assembly is supported by two (2) two bolt flange bearings that are greaseable.

The rear idler is a roller. Not a shaft with sprockets or wheels or even a free wheeling shaft. Having an idler roller allows for less chain friction, and prolonged conveyor chain life. The roller in the rear is also more forgiving as the spreader ages and is easier to replace due to the one-piece design.

A rear safety cover is provided to protect operator from moving parts and to discourage the build up of salt/sand material at the front of the unit.

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POWERPLANTS:



GAS (GECEL) – Gas drive is the most popular power plant in the Salt & Pepper line. It can feature an 11 HP I/C Briggs & Stratton engine or as an option an 11 HP Honda engine. All gas driven Salt & Pepper's come with a full cab control that features: electric start, electric choke & electric clutch.

The gas power plant is a full enclosed or self-contained system. It has its own automotive grade battery, full enclosed engine hood and fuel tank.

Gas powered spreaders are a great choice for trucks without central hydraulics and for customers who tend to spread heavier wet material such as sand.

Gas powered machines are lastly the easiest for the customer or dealer to install because they are self contained systems. The only hook up required is locating the cab control in the cab of the truck.

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POWERPLANTS:



HYDRAULIC (HY) – The hydraulic driven Salt & Pepper comes with a single Char-Lynn hydraulic motor that directly drives the conveyor through a shaft coupler that is connected to a 20:1 Durst gearbox.

Hydraulic power machines are by far the best choice for a material spreader if the truck has the ability to power the spreader via engine mounted clutch pump or by a transmission PTO (Power Take Off) port.

Hydraulic requirements for a single motor hydraulic Salt & Pepper are eight (8) gallons per minute (GPM) @ 1500 psi.

Hydraulic powered spreaders are a great choice for trucks with central hydraulics. Installation costs are normally more expensive due to sourcing a single knob cab control, running the hydraulic lines or setting up a complete hydraulic system.

A hydraulic powered Salt & Pepper comes from the factory with adequate length hydraulic hoses and quick couplers all necessary items to install the unit are supplied by the dealer or customer.

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POWERPLANTS:



DUAL HYDRAULIC (HY2) – The dual hydraulic driven Salt & Pepper comes with a two (2) Char-Lynn hydraulic motors. One motor directly drives the conveyor through a shaft coupler that is connected to a 20:1 Durst gearbox. The second motor is mounted to the spinner assembly and drives the spinner disc through a shaft and love joy coupler arrangement.

Hydraulic power machines are by far the best choice for a material spreader if the truck has the ability to power the spreader via engine mounted clutch pump or by a transmission PTO (Power Take Off) port.

Hydraulic requirements for a dual motor hydraulic Salt & Pepper are twelve (12) gallons per minute (GPM) @ 1500 psi.

Hydraulic powered spreaders are a great choice for trucks with central hydraulics. Installation costs are normally more expensive due to sourcing a dual knob cab control, running the hydraulic lines or setting up a complete hydraulic system.

A dual hydraulic powered Salt & Pepper comes from the factory with adequate length hydraulic hoses and quick couplers for both motors. All other necessary items to install the unit are supplied by the dealer or customer.

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EXTENDED SPINNER ASSEMBLY:

The extended spinner assembly is driven through the other side of the input shaft of right angle gearbox. The spinner disc is driven through a love joy style coupling that not only allows for easy removal and replacement but also takes shock load out material hitting the spinner disc

Unlike many other enclosed discharge chutes, the offset Salt & Pepper design allows the material spreader to spread material more towards of the center of the road and allows still allows visibility of the license plate on the truck.

The desired mounting height of the spinner disc is a range of 14” to 16” from level ground to the bottom of the spinner disc. Final location depends greatly on the truck bed height. Setting the desired height is part of the dealer/customer. Installation

The extended spinner assembly features a removable 14” diameter poly spinner disc that features four molded directional spinner vanes. Many other small spreader manufacturers feature a straight blade spinner disc, which doesn’t allow for as great spread pattern width.

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EXTENDED SPINNER ASSEMBLY CONTINUED:

The extended spinner assembly features a fully adjustable deflector hood, which is secured in place using U-bolts that attach to the spinner frame. The hood allows you to adjust the spread pattern width and throw of material.

The extended spinner assembly features a fully adjustable discharge chute that has a range of six calibrated settings to adjust the amount of material that is being spread and where it lands on the spinner disc.

The spinner shaft is cold roll steel construction and is supported by a two-bolt flange bearing that is fully greaseable.

The spinner frame attaches to the conveyor tailpiece through the use of four (4) L Bolts that make the spinner assembly completely removable (without the use of tools) for storage, travel, or quick unloading of material at the end of the day.

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HEAVY DUTY HINGED TOP SCREEN:

Every Salt & Pepper comes standard with a heavy duty hinged top screen.

The top screen is constructed from a heavy-duty 3" channel center, with 1/4" diameter rods and 1/8" x 1" flat stock on edge to form 2-1/2" square openings.

The top screen is secured at two opposite end corners by the use of a brackets & bolts that not only supports the screens but allows them to hinge to.



HOLD DOWN EQUIPMENT:

Any Salt & Pepper comes standard with dump body hold down equipment.

The dump body hold down equipment uses a clamp device and a threaded rod and chain arrangement that allows the dump body clamp to be placed on a dump body top rail and to be secured through the chain mechanism. Heavy duty nylon straps may still be used in special applications.

CONVEYOR BRIDGE (INVERTED VEE):

The conveyor bridge is design to take weight off the conveyor chain to allow for easy movement of material.

The conveyor bridge is standard on any Salt & Pepper hopper length.

The conveyor bridge is fully welded and non-adjustable.

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OTHER POPULAR OPTIONS:

Hopper Extensions – A 6” or 12” hopper extension can be built into any hydraulic drive machine to increase capacity. Gas powered units 6” extensions are available on all lengths. 12” extensions are only available on 8’ and 9’ units. These extensions are built right in the hopper and are not bolt on or weld on type.

Extended Spinner Assembly – An extended spinner assembly is standard on every Salt & Pepper unlike the Highlander JR. The extended spinner is recommended for any truck bed heights that are over 47”.

Tailgate Locking Bar – A tailgate locking bar can be supplied as a added feature to help aid in securing a Salt & Pepper into certain dump body applications. Tailgate locking bars are shipped loose and will need to be setup and installed by dealer/customer.

NOTE: Many other options are available that are directly covered in this product guide. Please contact your local TARCO® rep.