

ROLL TYPE TAILGATE SPREADER

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GENERAL:

This document describes an hydraulic powered roll type aggregate, salt, or chip spreader that attaches below the tailgate of any standard (90" to 96" wide) dump body. The spreader is designed to spread sand, salt, cinders, gravel, slag, and other materials having a maximum particle size of 1" in diameter. The spreader will cover a 96" wide path behind the truck. The spreader operates when the truck is driven forward or backwards, and the installed spreader does not interfere with normal hauling and dumping operations. The American Road Machinery TG-505 Rollspread is typical of the device that may satisfy this specification.

HOPPER:

The hopper is all welded steel; 7 gauge ends and 10 gauge main panels. The hopper is 96" wide, 20" high, and 15-1/2" long. Two 10 gauge steel formed plates are attached to the ends of the dump body tailgate, to prevent material spilling through those openings while the tailgate is open. The spreader is attached to the dump body at both ends of the hopper with hangers and hitch pins.

FEED ROLL:

The 96" long feed roll is constructed of 6" diameter steel tubing — 3/16" wall -- and is supported at each end with self-aligning rolling element bearings. The outer surface of the feed roll has lugs that promote a uniform flow of material from the spreader. The feed roll is driven by a hydraulic motor through enclosed sprockets and roller chain.

METERING:

Material flow from the spreader is metered by six spring steel keyboard segments made of 1" wide fingers riveted to a support plate. Each segment is bolted to a keyboard shaft and can be quickly removed for service. The fingers provide constant agitation of the material, produce uniform flow, and permit a uniform deposit of material over the entire width of spread. The fingers also allow oversize objects to pass through, eliminating streaks.

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DEPTH CONTROL:

The volume of material is determined by the tension of the keyboard fingers against the feed roll and by the speed of the feed roll. Finger tension is changed by rotating the keyboard shaft with a control handle and fine tooth ratchet. Feed roll speed is adjustable by varying the hydraulic oil flow. The spreader is capable of spreading as little as 75 pounds of salt per mile and can distribute a feather edge up to a 3" thick layer of other material.

PAINT:

The hopper, sprocket cover, and other components are thoroughly cleaned and given two coats of rust inhibiting primer and two coats of Safety Yellow finish.

OPTIONS

HYDRAULIC DRIVE:

The is powered by a 17 GPM through-shaft pump, connected to a separate PTO or by an existing PTO shaft. A cab-mounted valve controls the oil flow and, therefore, the feed roll speed. An 8-gallon reservoir and all valves, hoses, and fittings necessary to make a complete installation are supplied

HINGED HOPPER COVER:

A hinged hopper cover prevents unwanted material from filling the hopper when the spreader is not being used. The hopper cover also functions as a back stop to prevent spillage at the rear of the hopper.

TG-587:

The TG-587 Rollspread is identical to the TG-505 in operation. The spread width is 87", to facilitate its use on smaller dump bodies.