

SNOW PLOW TRUCK



- 58,740 lb gross vehicle weight
- 12-foot reversible front plow can push snow to the right or left of the truck
 - Clears 10 feet of roadway
- 11-foot reversible underbody scraper
 - Designed to apply 500 psi of down pressure to remove compacted snow and ice and can discharge onto the wing
- 10-foot wing plow
 - Clears 8 feet of roadway
 - Expands the plowing width when used in conjunction with the front plow or underbody scraper
 - Allows the operator to push back snow along the shoulder of the road
- 14-foot combination sander and dump body (box)
 - The body will hold the dry material which is typically salt, sand, or a combination of the two
 - This material is discharged out the rear of the body onto a spinner (not pictured)
 - The application of the dry material is controlled by a ground speed based controller in the cab to insure the proper discharge rate regardless of speed
- 220 gallon prewet tanks
 - These tanks store salt brine which is discharged onto the salt/sand as it leaves the sander body
 - This starts the melting process much faster than using dry material alone
 - This also makes the dry material wet which helps the material stick to the road rather than getting blown off the road
- Each snow plow truck has seven high intensity LED warning lights that provide 360-degree warning around the truck

INSIDE THE SNOW PLOW TRUCK



- The truck has four hydraulic joy-sticks to control the front plow, wing, underbody scraper, and lift the body to dump salt/sand
- The controller is used to regulate how much salt/sand or liquid material the truck is applying to the road
 - The display monitor relays what material is being applied, how much, air and road temperature, and is used for calibration and diagnostics
- NDDOT is testing and evaluating the effectiveness of adding AVL systems (Automatic Vehicle Location) and camera systems into snow plow trucks
 - A camera system can give the operator a view of the blind spots around the truck not otherwise available to him or her
 - An AVL system is a computer installed in the truck that gives the operator access to the following:
 - Radar and weather forecasting information
 - Material application recommendations
 - Currently NDDOT has approximately 35 snow plow trucks equipped with AVL systems and approximately 5 snow plow trucks equipped with camera systems