

# ELGIN SWEEPER



## WHAT DOES A SWEEPER TRUCK DO?

The large brushes on our trucks work like a giant version of the brooms you have at home. Sweeper trucks keep our roads clean and safe. We use them to clean up after work zones, to pick up small debris from our roads and to clear sand and salt after winter storms.

We're proud of our roads and we work hard to keep them clean.



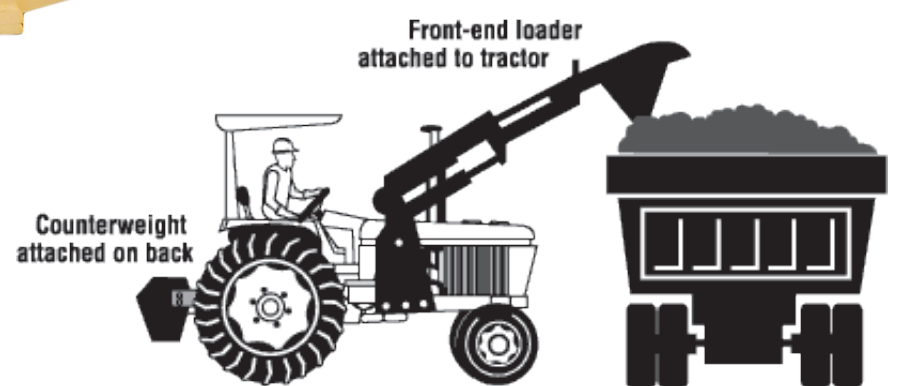


# FRONT END LOADER



## HOW DOES A FRONT-END LOADER WORK?

The front-end loader needs tremendous power to lift and tilt the bucket located at the end of two long arms. A powered hydraulic system provides the necessary power to lift not only the load, but also the weight of the bucket and arms.



## WHAT IS A FRONT-END LOADER USED FOR?

We use our front-end loader for various maintenance and construction activities on the roads and in our maintenance yards. During snow and ice operations during the winter, we use them to load our trucks with salt.





# BRINE TRUCK



## WHAT IS BRINE?

Brine is simply a mixture of salt and water. We typically pre-treat our roads and bridges with it before a winter storm hits. It helps prevent ice or snow from sticking to the surface as precipitation starts. Winter precipitation can be very challenging to clear. Brine helps us in the early stages of a storm, before we begin other de-icing and plowing operations. Drivers should always slow down and pay close attention during storm conditions.

## HOW DOES BRINE WORK?

Before a storm, NTTA pre-treats our roads by spraying a layer of brine onto the surface of roads and bridges. This layer dries and the remaining salt mixture sticks to the road. Salt mixes with snow and ice and deters accumulation.

## HOW DOES A BRINE TRUCK WORK?

Our brine trucks are fitted with a large storage tank (filled with the saltwater mix) attached to sprayers. Before a storm, our crews use these trucks to pre-treat our roads by evenly spraying the saltwater mix onto the surface.





# SCORPION ATTENUATOR



## WHAT IS A TRUCK-MOUNTED ATTENUATOR?

Safety is NTTA's priority. Truck-mounted attenuators (the unit attached to the back of the truck above) are designed to absorb impacts from vehicles and prevent injuries to both the driver and road crews. The unit absorbs the force of the vehicle that hits it - protecting crews working nearby. They are used for rolling or static work zones. These protective trucks are an important part of highway safety.



# SNOW PLOW



## DUMP TRUCK OUTFITTED FOR WINTER WEATHER OPERATIONS

As the winter approaches, NTTA outfits some of its heavy-duty dump trucks with salt spreaders and snowplows. Our crews put these trucks into action to clear snow and ice from our roadways.

During a storm, we use the spreader to put de-icing materials (several different types of heavy salts) onto the road to help prevent ice buildup.

If snow or ice continues and gathers on the road, the snowplow is used to remove it. Meanwhile, the spreader re-applies de-icing material to the freshly plowed road.

Drivers should always slow down and pay close attention during storm conditions – please give our crews room to work safely.

During the warmer months, the spreader and snowplow is removed and stored so we can use the dump truck for other work projects at NTTA.

