

Performance

The MT7 tractor delivers peak performance to get the job done, no matter how severe the conditions. Whether clearing sidewalks, mowing grass with one of our large commercial mowers, cutting ditches with our boom flail mower, grinding sidewalk concrete or performing any one of the many other maintenance duties assigned, you can count on the tough, rugged and powerful MT7 to meet the challenge.

The main drivetrain components consist of the following:

Engine

A 74 HP John Deere 4.5 LT Tier 4 Final diesel engine powers the MT7. Rather than a smaller 2.6 to 3.3 LT engine, we chose the larger displacement engine for higher torque and longer engine life. Although the HP is less than our prior model MT6, it is very close to our MT3, MT4 and early model MT5s which were produced for many years and cleared snow from sidewalks, loaded trucks and powered our largest mowing equipment. The 74 HP engine, PTO driven snowblower handles the toughest sidewalk snow conditions as did our prior similarly powered models. All customers who have either seen a demonstration or already have one or more MT7s in their fleet are amazed at the performance.

Another reason for choosing this engine was to be ahead of the mandated regulations from EPA, CARB, and NRC. Since the Tier 4 Interim engines are only short lived engines, which many if not most manufacturers decided just to skip past and go straight to the Tier 4 Final, it did not make sense to produce a small number of tractors with a Tier 4I (Interim) engine, for obvious reason.

Drivetrain

For decades Trackless has stayed with the most rugged and efficient drivetrain design which consists of a hydrostatic transmission that drives a mechanical transmission. The mechanical transmission has a low gear, high gear and neutral. The mechanical transmission drives the front and rear axles by way of driveshafts. The result is constant, high torque 4 wheel drive. A 10:1 deep reduction planetary is available as an option. With this option, the operator can select any one of four speed ranges, the slowest being 0 to 10 feet per minute, ideal for the cold planers and leaf loader.

Hydrostatic Transmission

The MT7 hydrostatic transmission is a Sauer Danfoss. It is electronically controlled by depressing the electronic foot pedal. There are multiple ramps programmed into the system so that the tractor operates smoothly and maintains traction under all circumstances. There are also multiple ramps programmed for braking when the operator lets off on the foot peddle so that no matter what gear range you are in or how fast you are moving, the dynamic braking from the hydrostatic is just right. However, if an operator wants to stop very quickly, simply touch the service brake pedal and all of the brake ramps become very aggressive and the braking motion feels like that of a high-performance automobile.

PTO Clutch

The Twin Disc PTO clutch is rated at 200 hp which means it will easily last the life of the tractor. When coupled to any one of our snowblowers the combination of the MT7's large displacement, high torque engine, oversized PTO clutch and superior traction is unstoppable. No matter how deep, heavy, or contaminated with salt or frozen the snow is, the MT7 and snowblower will chew its way through.

Axles/Differentials

The front and rear axle are Dana 60 type with track lock differentials. The axles are extremely tough and have extra heavy wall tubing and oversized axle shafts. As an option, we offer an electric locking differential for the front axle.

Auxiliary Hydraulic Power

In addition to the front PTO and optional rear PTO, the MT7 also comes standard with two auxiliary hydraulic power circuits. One circuit can power an attachment on the front while the second circuit can independently power a different attachment on the rear: For example, a sweeper on the front and a sand spreader on the rear. The two circuits can also power two independent functions on the front, such as the left wing and right wing on one of our large commercial mowers.