

T*rackless* VEHICLES

SUBSIDIARY OF FEDERAL SIGNAL CORPORATION



SERIES 7 MUNICIPAL TRACTOR

ADVANCED DESIGN FOR MAXIMUM
PRODUCTIVITY, SAFETY AND COMFORT
FROM **THE LEADER** IN THE MUNICIPAL TRACTOR FIELD

SERIES 7

Trackless Vehicles has been in the articulated tractor manufacturing industry for over 50 years. Trackless leads the market in technological design, efficiencies, safety features, operator comfort and overall performance. While less expensive competitive products are available, the many value-added and safety features of the MT7 are primarily due to feedback and requests from our large customer base.

The majority of our business is with municipalities and their public works departments. However, we have also equipped parks, airports, universities, military facilities, private contractors and large corporations with equipment to help them tackle their toughest seasonal grounds maintenance challenges.

The MT7 is what you, the customer, should expect; a tractor appropriately designed to do the job safely and efficiently. Our commitment is to be the best and deliver the products you need to get the job done.

INDUSTRY LEADING SUPPORT

Visit Municipal Tractor University, a free online platform designed exclusively for Trackless owners and operators. On MTU, you'll find video tutorials, parts catalogues, manuals, diagnostic information and more! Also accessible by scanning the QR code inside the cab of every MT7.

Learn more about MTU and take advantage of this service solution today by visiting:

[TRACKLESSVEHICLES.COM/MTU](https://tracklessvehicles.com/mtu)



PTO WORK MODE/ STANDARD MODE

PTO Work Mode allows an operator to set the engine at full RPM to power PTO-driven attachments such as a snowblower or any of our mowers and control ground speed independently by way of the hydrostatic foot pedal.

Flip the switch to Standard Mode, and the tractor drives like a car. The pedal now controls both the ground speed and engine RPM simultaneously. Standard Mode saves a significant amount of fuel as the engine RPM returns to idle when letting off the pedal vs constant full RPM when in Work Mode. Standard mode is ideal for plowing, sanding, other operations that do not require PTO power, and transporting to and from where work is to be done.

RIDE CONTROL (OPTION)

Automatically senses ground speed and the overhung load of the attachment to calculate shock load and cancel out tractor bounce.

AC/CLIMATE CONTROL

Full climate control for floor heat and defrost with fresh air intake. Set desired temperature on the digital display, choose fan speed, and the temperature will remain constant. Air is dried in defrost mode to prevent fogging.



TRACKLESS MT7: PACKED WITH FEATURES

REVERSING ENGINE FAN

The automatic reversing engine fan comes standard. By reversing at factory set intervals, the fan keeps the radiator and hydraulic oil cooler clean from grass clippings in the summer and salt build-up in the winter.

ONBOARD DIAGNOSTICS

The onboard computer checks and monitors all systems. If a fault is detected, the user can access tractor diagnostics through the digital dash.

WIFI DIAGNOSTICS (OPTION)

The WiFi Diagnostics feature allows our diagnostics team to connect directly into all MT7 ECUs, including the engine ECU. This option reduces downtime and service calls should there be a problem or concern.

JOHN DEERE STAGE 5 ENGINE

A 74 HP John Deere 4.5 LT Stage 5 diesel engine powers the MT7, rather than a smaller 2.6 to 3.6 LT engine. We chose the larger displacement engine for its robust characteristics and longer engine life. MT7 owners or anyone who has seen a demonstration are impressed with the engine's performance.



EXTERNAL UP/DOWN SWITCH

The conveniently positioned external up/down switch on the front of the tractor provides for single operator pinning of attachments. This feature reduces the risk of injury, which could occur from a second individual operating controls inside the cab and unable to see the hands of the individual pinning the attachment. When using the switch, hydraulic cylinders move at a third of the regular speed, providing precise and safe control for aligning the pins.



REAR PTO & REAR 3-POINT HITCH (OPTION)

The MT7 has an optional rear 540 RPM PTO and category one 3-point hitch, allowing for the installation of an attachment on the rear of the tractor.



DIGITAL DASH

The digital dash displays all relevant tractor information, including fluid temperatures, speedometer, engine RPM, fuel level, selected gear range, forward/neutral/reverse, turn signals, and more.

The digital dash illustrates a variety of information by way of icons. In addition to the icons, when a fault occurs, such as low coolant, low hydraulic oil or plugged air breather, a message in 3/4-inch text will appear on the screen. These messages eliminate the risk of an operator failing to notice a fault light icon and help to clarify the fault.



BACKUP CAMERA

The backup camera is viewed on the 7" digital dash and is a standard feature.



RIGHT SIDE SWITCH PANEL

The user-friendly switch panel is located to the right of the joystick. Tractor functions such as cruise control, engine RPM, hydraulics, PTO, sander, joystick modes and air ride seat are all at the operator's fingertips.

DESIGNED FOR
MAXIMUM
PRODUCTIVITY

JOYSTICK

A state-of-the-art joystick controls attachment functions. The joystick is easy to use and extremely smooth. Select from the list of attachment modes A, B or C, position the joystick mode switch accordingly, and the joystick automatically programs itself for the attachment you have installed. Manually re-configuring the joystick is never required. With the operator's hand resting comfortably on the joystick, all attachment functions, as well as switching between forward and reverse, couldn't be easier or more comfortable.

WINTER ATTACHMENTS

SNOWBLOWERS

TWIN AUGER SNOWBLOWER

The Twin Auger Snowblower is a highly efficient, two-stage snowblower.

It is available in three widths: 51", 60" and 70". All widths will accept either a sidewalk or a truck-loading chute, and many municipalities utilize both chutes with their snowblower. After clearing sidewalks, municipalities can change to the truck-loading chute to remove windrowed snow from streets or cul-de-sacs. In both cases, the manoeuvrability and physical size of the MT and Snowblower are less apt to create traffic congestion than larger snowblowers.

Overall durable construction includes 3/8-inch thick side plates, double-wall impeller housing and a 15-inch diameter bearing assembly for smooth, accurate chute rotation. In addition, high-strength, low alloy steel augers with ice picks and a heavy-duty balanced impeller can easily handle the most challenging snow conditions.

Average loading time for the MT and Snowblower is seven cubic yards per minute.



Positive and accurate steering of the Snowblower in confined areas and around obstructions is due to the articulated steering of the MT. The ability to move the Snowblower sideways by simply turning the steering wheel allows the operator to approach any obstruction safely.

The Twin Auger Snowblowers are manufactured by Trackless Vehicles to ensure that the quality, service, and parts availability are equal to that of the MT.



RIBBON SNOWBLOWER

The Ribbon Snowblower is the next generation of snowblower technology from Trackless Vehicles. Designed for higher output, this Snowblower outperforms all others in heavy snow conditions. In addition, it is highly aggressive when cutting into frozen snow.

The Ribbon Snowblower can accept either a sidewalk chute, truck-loading chute, or telescopic chute. Depending on the job at hand, an operator can quickly change from the sidewalk chute to the truck-loading chute to load snow from the street into an awaiting truck.

Available widths: 51", 60" and 75". Contact Sales for 84" width.



TELESCOPIC CHUTE

The telescopic chute provides the best of both worlds, allowing the operator to change the height of the chute from within the cab of the Trackless MT.

The telescopic truck-loading chute is available as an option for the 51", 60", 70", 75" and 84" widths.





5-POSITION FOLDING V-PLOW

The 5-Position Folding V-Plow allows you to build flexibility into your sidewalk maintenance program. This attachment offers the ability to choose between the simplicity of a straight blade, the speed of a V-Plow, the manoeuvrability of a scoop plow, or any configuration in between.

The left and right wings are controlled by individual hydraulic circuits via the joystick, allowing you to change your blade configuration as plowing conditions change. With the push of a button, both wings can be moved simultaneously.



PLOW TRIPPING

The 5-Position Folding V-Plow is designed to be able to trip while in the straight blade position.



ANGLE SNOWPLOW

The Angle Snowplow is the most cost-efficient snow moving attachment you can mount on your Trackless MT. Nothing beats the economic performance and durability of a straight blade. However, we took the simplicity of a straight blade and made it better; blade skins are made from 3/16-inch hot-rolled steel and reinforced with 3/8-inch thick steel ribs for optimum durability.

The Plow is available in four widths: 5', 6', 7' and 8'.



FIXED WING V-PLOW

The Trackless Fixed Wing V-Plow is designed for high-speed plowing. The V-Plow has excellent snow rolling and throwing capabilities that allow it to effortlessly cut through drifting or accumulated snow. The tapered nose allows it to ride safely over uneven surfaces without damaging the Plow or the sidewalk.

Available in 49" width.



DOUBLE TRIP PLOW

The design of the Double Trip Plow provides safer operation on uneven sidewalk surfaces. The double trip system trips the mouldboard 35° and the cutting edge 40°. With this type of trip system, the operator is not required to stop or slow down for the mouldboard and cutting edge to return to position. The tripping of the Plow is also smoother than conventional mouldboard trip or cutting-edge trip plows.

Available in 60" width.



FRONT MOUNT SPREADER AND PLOW

The Front Mount Spreader and Plow is a unique combination of a 5' angle plow and sidewalk spreader attached to the front of the Trackless MT.

When coupled with the Rear Mount Sidewalk Spreader, operators can increase spread distance by filling both spreaders with the same material. Alternatively, the spreaders can be filled with two different materials for area-specific applications.

REAR MOUNT SIDEWALK SPREADER

The Rear Mount Sidewalk Spreader was specifically engineered for sidewalk applications. The capacity of the Rear Mount Sidewalk Spreader is ½ cubic yard, providing a spread distance of 4 to 12 km (3 to 8 miles).

As illustrated, the Spreader conserves material by dispersing it evenly in a diamond pattern rather than a solid layer. The delivery roller maintains a 41" spread width, preventing material waste and turf damage from salt, both of which can be a problem with spinner spreaders. As a result, reduced labour and material requirements minimize the overall cost of operation.

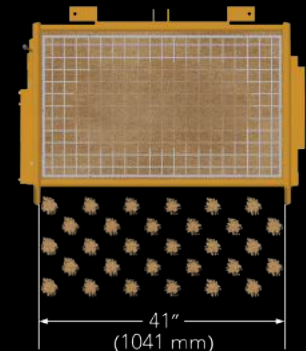
An in-cab switch allows the operator to choose between Auto Mode or Run Mode. Auto Mode automatically stops the Spreader from spreading whenever the tractor stops or is shifted into reverse. Run Mode allows the Spreader to run constantly. A 10-position rotary switch in the right side switch panel allows the operator to increase/decrease the amount of material being spread.

For safety, the Spreader comes equipped with a safety screen, a slow-moving vehicle sign and 3 screw-jack stands that allow one person to safely attach or remove the Spreader from the tractor without the aid of a lifting device.

As an option for the Spreader, the MT7 can be equipped with a ground speed-regulated controller.



DIAMOND
SPREAD PATTERN



DUMP BODY

The Trackless Dump Body is an option for municipalities wishing to double their Rear Mount Sidewalk Spreader's spread distance.

The operator spreads material until the Rear Mount Sidewalk Spreader is empty and can then refill the Spreader by hydraulically raising the Dump Body. The tailgate opens automatically and closes again once the Dump Body is lowered back into the rest position. For safety purposes, the tractor will not drive forward or reverse while the Dump Body is in the raised position.

When the winter season is over, the Dump Body and its supporting frame can be unbolted and stored until the following winter.

Additionally, the Dump Body is used to house the 150-gallon Water Tank attachment.



TOW BEHIND SPREADER

The Tow Behind Spreader has a 1 cubic yard capacity with a spread distance of up to 18 km (11 miles). It is hydraulically driven and has an electric actuator to control the spread distance. The actuator control is located in the cab next to the joystick.

The Tow Behind Spreader conserves material by dispersing it evenly in a diamond pattern rather than a solid layer. The delivery roller maintains a 41" spread width; this prevents material waste and turf damage from salt. As a result, reduced labour and material requirements minimize the overall cost of operation.

For added safety, the Tow Behind Spreader is equipped with electric brakes.

150-GALLON BRINE SPRAYER

The 150-gallon Brine Sprayer can be used in conjunction with front-mounted attachments, such as a Snowblower, Plow, Power Angle Sweeper or Snow Lion Ice-Breaker.

The Trackless Brine Sprayer can be utilized for anti-icing, deicing or pre-wetting, and was specifically designed for the application of salt brine. Liquid brine is ideal for use in downtown core areas to limit material being tracked into stores and buildings.



80-GALLON BRINE SPRAYER

The 80-gallon Brine Sprayer is designed specifically for liquid salt brine application.

The application of brine prevents the bond of snow and ice from freezing to the sidewalk. The use of brine spraying systems to deice sidewalks and other surfaces reduces material and labour costs.



SNOW LION ICE-BREAKER

The Trackless Snow Lion Ice-Breaker is designed to pulverize ice and hard-packed snow that can build up on sidewalks and walkway surfaces over time. The prevention of potential slip and falls is a significant concern for all municipalities, and the Ice-Breaker attachment was explicitly designed for this purpose.

The Ice-Breaker can operate regardless of temperature or climate and can provide effective ice control in temperatures that may render deicing agents ineffective. The Ice-Breaker features a double pulverizing roller system, which provides two passes in one.



INDEPENDENT ROLLER SUSPENSION

Each cutter on the Ice-Breaker attachment is mounted with a spring-loaded suspension. This allows the cutters to follow uneven surfaces such as curbs.



SPRING ATTACHMENTS

ROTARY FINISHING MOWERS



14' ROTARY FINISHING MOWER

The 14' Rotary Finishing Mower was designed to drastically reduce mowing time in large areas such as campuses and parks.

The three-section, front-mounted Mower provides the flexibility required to avoid scalping on undulating ground. The Mower's 72" main deck is powered by the tractor's PTO, while the two hinged 48" wings are powered independently by the tractor's hydraulics.

Safety switches shut off the wings automatically when raised.

The Mower's cutting height ranges from 1½" to 4" and can be adjusted in ½" increments.

For side slope cutting, axle extensions and Terra Grip Turf tires are available.



72" ROTARY FINISHING MOWER

The Trackless 72" Rotary Finishing Mower is designed for close trimming with a full-width rear discharge. Four large gauge wheels and a flexible attaching frame allow accurate cutting on rolling ground.

The MT's hydrostatic transmission allows the operator to maintain the optimum cutting speed in various conditions.



10' ROTARY FINISHING MOWER

The 10' Rotary Finishing Mower is a mid-sized mower option for customers looking to mow large areas without compromising manoeuvrability. Operators are able to easily manoeuvre around obstacles such as signs, flower beds and trees with the 10' Mower.

The Mower is comprised of three sections: a 72" main mower deck and two 24" mower wings. For safety, the 10' Rotary Finishing Mower is equipped with safety switches that shut off the wings automatically when raised.



SPRAY ARM

WATERING HEAD

The Spray Arm's watering head was primarily designed to water hanging flower baskets. However, the attachment can also be utilized to water flower beds in remote locations.

An in-cab rotary dial allows the operator to select the volume of water in litres to be dispersed. For example, setting the dial to 0 will disperse ½ litre; setting the dial to 1 will disperse 1 litre; setting the dial to 2 will disperse 2 litres, and so on. For continuous water flow, set the dial to 9 and then press and hold the on/off button on the joystick.

Operating the Spray Arm is simple: manoeuvre the tractor and attachment into position, select the desired water volume and press the on/off button on the joystick. When the water shuts off, the operator can shift or rotate the Spray Arm back towards the tractor and move on to the next plant.



180 DEGREE BOOM ROTATION

The operator can rotate the entire boom assembly 180°; this allows the attachment to water on the tractor's left or right side and any position in between. Additionally, the Spray Arm is equipped with a 40" side shift.



SPRAY ARM

SPRAY HEAD

The Trackless Spray Arm is the ideal solution for spraying weeds in the summer months. The attachment features two interchangeable spray heads, allowing for efficient use in a variety of scenarios.

The double-sided spray head was designed for spraying around guard rails and barriers.

The flexible spray head is spring-mounted and was designed for spraying against fences or other obstacles.



150-GALLON WATER TANK

The 150-gallon (565 L) Water Tank has many applications. The Tank can be used with the Spray Arm, Brine Spray System, and Spray Bar Kits for Power Angle Sweepers, the Pickup Sweeper and the Asphalt Cold Planer.

The stainless steel Water Tank is designed to mount within the Dump Body attachment.



80-GALLON WATER TANK

The 80-gallon (300 L) Water Tank is moulded from semi-translucent polypropylene.

It includes a 12V electric pump, adjustable relief valve, hosing, and a harness with a trailer plug to connect to the rear of the MT. A large lid can accommodate filling from a variety of water sources.

The Trackless Water Tank attachment is ideal for dust suppression when combined with optional Spray Bar Kits.

POWER ANGLE SWEEPER

The Power Angle Sweeper can be used to perform a wide variety of tasks every month of the year, making it one of the most cost-effective and versatile attachments to own. In addition to sweeping snow, sand, gravel or other debris from sidewalks, parking lots and cul-de-sacs, the Sweeper can be used to dethatch large lawns and playing fields.

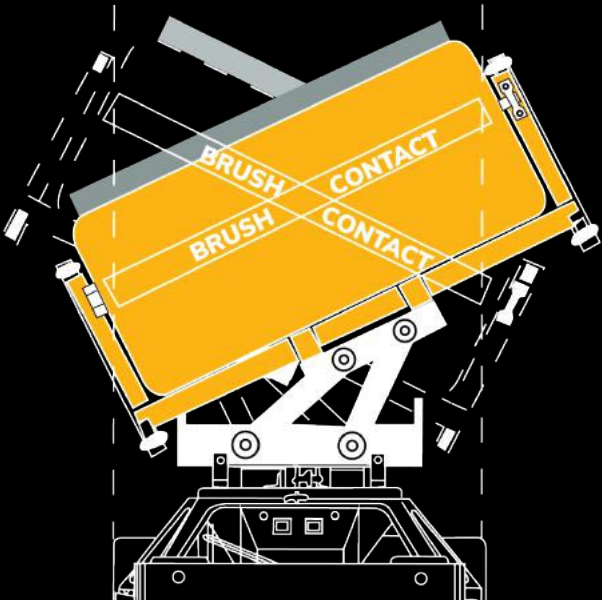
The high-output hydraulics of the Trackless MT directly drive the broom head, while a relief valve protects the core from twisting in overload conditions. The scissor frame is designed to automatically centre the sweeping pattern in front of the tractor as the broom is angled. Colour-coded quick couplers and integrated storage stands contribute to the attachment's ease of use.

The Sweeper is available with 3 bristle options to accommodate various applications: all poly, ½ poly and ½ wire, and all wire.

Available widths: 3', 4', 5', 6', 7' and 8'.



SCISSOR FRAME
CENTRES BRUSH HEAD



PICKUP SWEEPER

The winter battle can leave a considerable accumulation of sand and other debris on sidewalks. The Trackless Pickup Sweeper is the ideal attachment for your sidewalk spring clean-up.

The Sweeper is driven for one or more blocks collecting debris in its path and emptied by a hydraulically controlled bottom gate.

Rubber skirting on the sides and front help control dust. Adding the optional Spray Bar Kit and Water Tank attachment provides additional dust suppression.



LINE & STENCIL PAINTER

The Trackless Line and Stencil Painter attachment is used for both straight line and stencil painting.

For straight line painting, simply remove the cart, set up the spray gun and proceed.

For stencil painting, a hose reel and hand wand are provided. Stencils can be stored in one of the two storage drawers.



SUMMER ATTACHMENTS

BOOM FLAIL MOWER

Almost every municipality has several areas which are challenging, unsafe or impossible to mow. Ditches, steep inclines, over guard rails and waters-edge cutting become problems of the past once the Trackless Boom Flail Mower enters the scene.

Benefits:

- Front-mounted for better visibility compared to side or rear mount boom flails, resulting in less operator fatigue and safer operation.
- The compact size of the MT and Boom Flail decreases interference with passing traffic compared to larger agricultural-type tractor/mower combinations. The compact size is also beneficial when transporting to and from the job site.
- Hydrostatic speed control allows the operator to react to oncoming obstacles for optimum safety and productivity.
- The Boom Flail can be removed from the MT within minutes, allowing the operator to mount another attachment and move on to the next task.



74" FRONT FLAIL MOWER

The Front Flail Mower was designed to cut heavier grass, weeds, scrub and light brush where a standard rotary lawn mower could not cope. An enclosed mower housing and rubber safety skirts keep the cut grass, mulch and other debris within the cutting chamber. This allows for safe mowing near roads, parks and other busy areas.

Large gauge wheels and a full-width gauge roller give the mower front-to-rear flexibility, allowing it to follow ground contours, producing an even cut without turf damage.



AERATOR

The Aerator is mounted to the front of the Trackless MT, allowing the operator to keep the implement in their sight at all times. The tine discs swivel with the tractor. This feature allows the operator to steer around obstacles without having to raise the attachment as with conventional, rear-mounted aerators.

With the front-mount design, the operator can lift the Aerator, shift the MT into high range, and move to the next job site without having to trailer the equipment.



COLD PLANER

Sidewalk maintenance doesn't stop when the snow melts. Winter freeze-thaw cycles can cause frost heave and wreak havoc on pedestrian walkways, creating differences in sidewalk elevations. These repairs are often outsourced to companies specializing in slab jacking (mudjacking), grinding or milling.

However, a public works department equipped with a Trackless MT and Cold Planer can repair concrete or asphalt surfaces in a cleaner, faster and more cost-effective manner, saving the municipality from unnecessary costs.

DEEP REDUCTION (OPTION)

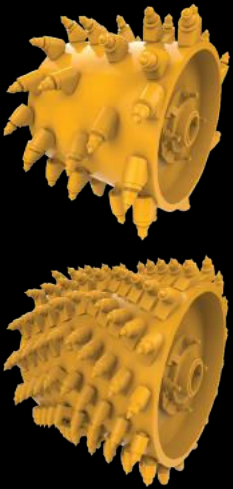
The Trackless MT is available with a mechanical, 10:1 planetary Deep Reduction transfer case. When engaged, maximum speed of the tractor is 10 feet per minute. The Deep Reduction generates 10 times the wheel torque compared to normal low range. Achieving creeper gear speeds any other way may be cheaper but will not provide the same performance.

The Trackless Deep Reduction results in smoother, surge-free operation of the Cold Planer. Tilt, depth, and side shift controls add to the attachment's precision, and when combined with the articulation of the Trackless MT, gives the operator ultimate manoeuvrability.

YOUR CHOICE, ASPHALT OR CONCRETE

The Asphalt Cold Planer is ideal for repairs to asphalt abutting manhole covers, curbsides, gutters and driveways. It can also be used for pothole repairs as well as utility cuts.

The primary function of the Concrete Cold Planer is to mill sidewalk elevation differences. However, municipalities have also utilized the Concrete Cold Planer to mill elevated curbs, driveway entrances and wheelchair access ramps.



SIDEWALK MILLING VS COSTLY ALTERNATIVE



SPRAY BAR KITS

The Trackless Spray Bar Kits can be utilized with Power Angle Sweepers, the Pickup Sweeper and the Asphalt Cold Planer.

When coupled with either the 80-gallon or the 150-gallon Water Tank, the Spray Bar Kits provide excellent dust suppression.



BOOM SPRAYER

A 14' wide Boom Sprayer is available and mounts to the rear of the 80-gallon Water Tank frame. The Sprayer's booms can be folded inwards for easy transportation. Additionally, the Boom Sprayer features a forward and reverse break-away system.



STUMP GRINDER

The Trackless front-mounted Stump Grinder has a 24" diameter rotor with 34 bolt-on carbide teeth. The tractor's hydraulic system powers the Stump Grinder. Joystick controls provide precise and accurate operation.

The attachment and tractor can be easily manoeuvred and driven from one job site to another.



FRONT END LOADER

The Trackless self-levelling Front End Loader is ideal for lighter work required by grounds maintenance departments. Smooth, accurate control of the Loader by way of the joystick, combined with the articulated steering of the tractor, allows the operator to manoeuvre with precision and place material exactly where required.

Available in 49" and 77" widths.

FALL ATTACHMENTS

LEAF LOADER

FASTER PICK UP, LESS PERSONNEL, HEAVIER LOADS & FEWER TRIPS

The Trackless Leaf Loader is an advanced and efficient leaf loading attachment, whereby leaves are picked up curbside, mulched, and blown into a truck.

The Leaf Loader can load up to four leaf debris trucks per hour and 100,000 pounds of leaves per day. After using the Leaf Loader for their leaf pick-up programs, many customers claim that they are three to four weeks ahead of schedule.

MULCHING

Leaves can represent up to 20% of a municipality's solid waste. Many municipalities have banned leaf disposal by landfill or incineration, and as others follow, mulching and composting will soon become mandatory as the first step in leaf disposal or recycling.

RECYCLING

Mulch can be sold or offered free of charge to landscapers and the general public for their gardens or flower beds. Although the demand may not be large enough to recycle 100% of the mulch generated, the demand will increase every year once a program is implemented.

NO BAD WEATHER DAYS

With a heated cab, rain, snow or cold weather does not affect the operator's willingness to work. Furthermore, none of these conditions affect the Leaf Loader's ability to pick up the leaves, even if they are frozen to the asphalt.

NO PHYSICAL LABOUR

The operator can remain in the cab and let the Leaf Loader do the work. As with any job where physical demands are high, total mechanization can easily double, if not quadruple, productivity.

LESS TRAFFIC CONGESTION

The Trackless Leaf Loader and truck operate close to the curb, minimizing disturbance to traffic flow.



BUFFALO TURBINE DEBRIS BLOWER

The combination of the Trackless MT and Buffalo Turbine Debris Blower is ideal for leaf and debris clean-up in parks, cemeteries, trails and other areas where larger equipment is not practical.

The Buffalo Turbine Debris Blower is powered by the MT's front PTO. To adjust the velocity of the Debris Blower, simply increase or decrease engine RPM via the hand throttle. Nozzle rotation and speed of nozzle rotation are both controlled by the joystick, providing smooth and accurate control.

Since the Debris Blower utilizes the MT's front PTO and joystick, additional switches or controls are not required. This provides ease of operation and makes installation and removal quick and simple.

A 12" round nozzle is standard; optional shaped nozzles are available.



BEFORE AND AFTER



INFRARED ASPHALT HEATER AND 45KW GENERATOR



SIMPLICITY OF OPERATION

Operation of the Infrared Asphalt Heater is simple: position the Heater over the repair area, activate the tractor PTO, set the cycle time and press the start button.

CONTROLLED CYCLE TIMES

A timer controls heat cycle time. To achieve optimum heating time for the conditions, heat cycle time can be increased or decreased in 2 minute intervals.

NO OPEN FLAME

The Trackless Infrared Heater has no open flame. Instead, electric elements produce an even and controlled heat that will not burn the surface.

MANOEUVRABILITY

Since the Heater is mounted in front of the tractor, it is easier to manoeuvre and position than towed trailer-mounted units. With the precise control of the tractor's articulated steering, the operator can accurately position the Infrared Asphalt Heater.

TWO MACHINES IN ONE

When the Infrared Asphalt Heater is not in use, it can be separated from the Generator frame by simply removing four pins.

The Generator produces 45 KW and 175 amps. This provides enough power to run welders, portable lighting, pumping stations, and in an emergency situation, essential functions of a municipal building. The Generator comes equipped with both 110 V and 220 V receptacles. For safety, security fencing for both the tractor and Generator is included, as well as safety lockouts.

GENERATOR MAY BE PURCHASED SEPARATELY



ELIMINATE:

- Propane tank storage regulations
- Training/licensing personnel for propane
- Propane tank shortages
- Possibility of leaking valves or tank ruptures
- Open flame in close proximity to propane tanks
- Open flame over or near catch basins or manholes where there is a potential for flammable gases or liquids

SPECIFICATIONS

ENGINE		STD	OPT
John Deere	Model 4045 TFC 03	✓	
Emission Rating	Stage 5		
Displacement	4.5 L		
HP Power Rating	74 HP, 55 KW		
Torque	224 lb-ft, 304 NM @ 1600 r.p.m.		
Bore x stroke	4.2 x 5.0 inch		
Turbocharged			
Equipped with start aid and 1000 watt engine block heater		✓	
Icons and warning messages displayed on digital dash		✓	
Reversing engine fan		✓	
SPEEDS			
Low range	0 to 12 km/h (0 to 8 mph)	✓	
High range	0 to 30 km/h (0 to 19 mph)		
Deep low range	0 to 3 m (10 ft) / min		✓
High range lockout to prevent operation of attachments in high range			✓
P.T.O			
Front PTO	1-3/8" 6 spline, 540 RPM	✓	
Rear PTO	1-3/8" 6 spline, 540 RPM		✓
Twin disc over center clutch with electric over hydraulic actuation		✓	
Reduction box 4:1		✓	
POWERTRAIN			
Sauer Danfoss hydrostatic/electronic transmission and motor		✓	
Control by electronic foot pedal programmed to control hydrostatic independently or both engine RPM and hydrostatic simultaneously		✓	
Trackless mechanical transmission with high/low range and neutral		✓	

POWERTRAIN (CONTINUED)	STD	OPT
Cruise control in low range	✓	
Dana style model 60 full float axles with new heavy-duty alloy spindles and limited slip differentials – 12,000 lb capacity each	✓	
10:1 deep reduction planetary transmission. When coupled to mechanical transmission, 4 speed ranges instead of 2.		✓
Deep low is 0 – 3 m (10 ft) / min		
Electronic locking front differential – will not engage in high range		✓
Axle extensions for slope mowing		✓
HYDRAULICS		
20 gpm hydraulic gear pump driven by timing gears of engine	✓	
14 gpm hydraulic gear pump, only driven with PTO clutch engaged	✓	
Joystick control with 8 backlit membrane switches, 4 float position switches also have additional LED indicator lights. Switches colour coded to circuits. Includes FNR (forward/neutral/reverse) switch.	✓	
6 (3 pair) low volume front hydraulic couplers for attachment control	✓	
4 (2 pair) high volume hydraulic couplers to power attachments requiring approximately 16 gpm	✓	
2 (1 pair) high volume hydraulic couplers at rear of tractor	✓	
Variable flow to rear hydraulics by way of rotary dial switch in cab	✓	
Cartridge-type hydraulic filter mounted at highest point in system to allow dry changes	✓	
Thermostatically controlled bypass from oil cooler for start-up in cold conditions	✓	
Steel hydrostatic lines	✓	
Low hydraulic oil warning	✓	
Inching switch outside cab to control lift cylinders for safe pinning of attachments	✓	

BRAKING	STD	OPT
Hydrostatic dynamic braking programmed for smooth deceleration	✓	
Driveline brake	✓	
Service brake application also activates more aggressive hydrostatic braking	✓	
Mechanical parking brake with warning message displayed on digital dash	✓	
ELECTRICAL		
1000 CCA group 31 battery	✓	
200 amp alternator	✓	
Main circuit breaker protection and mini blade fuses	✓	
Battery disconnect switch	✓	
Switch, wiring and plumbing for spray systems	✓	
CAN wire to front plug to control engine RPM from external source such as Generator/Infrared Asphalt Heater	✓	
7 prong trailer plug	✓	
GPS / Data tracking port		✓
WiFi connected diagnostic		✓
12 volt power point auxiliary outlet for cell phone	✓	
12 volt 2-way radio jacks		
STEERING		
Articulated steering 35 degrees each way	✓	
Orbitrol hydraulic motor, hydraulic steering cylinder, tilt steering column	✓	
Inside turning radius approximately 8-feet	✓	
High strength spherical bearings for pivot pins and steering pins	✓	
Bearings and pins greaseable	✓	

TIRES & WHEELS		STD	OPT
LT 245/75R x 16	10 ply radial tire on HD 16" 8-bolt rims	✓	
31 x 15.50 x 15	8 ply turf tires on HD 15" 8-bolt rims		✓
Dual 10 ply loader lug tires (8) mounted on 8 rims			✓
Terra Grip Turf			✓
Wheel nut indicators			✓
HITCHES			
Front	Trackless quick hitch with dual lift cylinders	✓	
Rear	Category 1, 3-point hitch with anti-sway bar		✓
LIGHTS			
4 - LED headlights (High/Low beam)		✓	
1 - LED backup light			
2 - Rubber mounted shockproof LED tail lights			
1 - Interior dome light			
Front and rear LED signal lights and 4 way flashers		✓	
8 LED flashing lights above roof, mounted in HVAC guard		✓	
2 on each side for 360 degree visibility, all amber or 4 blue, 4 amber			
Second rear LED backup light			✓
Additional high-mount rear tail lights			✓
Headlight, signal (marker) light guards			✓
FINISH			
All steel components prepped in 5 stage phosphate wash, 2 part epoxy primer with rust inhibitor, 2 part polyurethane automotive top coat		✓	
Latches, linkages, levers, battery hold down straps and bolts, support rods, striker plate, shifter gate and various small brackets zinc plated		✓	
Colour: highway yellow with black trim, grey/black interior		✓	
Custom colours to customer specification			✓

SPECIFICATIONS (CONTINUED)

CAB FEATURES	STD	OPT
Certified ROPS cab structure. Steel roof with rain gutters	✓	
Digital dash: tachometer, speedometer, hour meter, fuel level, engine coolant temp., hydraulic oil temp., engine oil pressure, voltmeter	✓	
7-speed HVAC fans	✓	
HVAC system with auxiliary heat and pressurization	✓	
2 outside and 1 inside rear view mirror	✓	
3-point retractable seat belt	✓	
AM/FM/Bluetooth stereo, dual speakers, external aerial with amplifier	✓	
Cup holder, cell phone holder, door pocket, storage tray	✓	
Heated seat		✓
Fire extinguisher		✓
First aid kit		✓
Gas strut door cylinder and safety strap	✓	
Tilt steering column with horn, signal lever, hazard button	✓	
DOT-approved tinted tempered safety glass	✓	
Left and right side slider windows	✓	
Full colour digital dash including backup camera when in reverse	✓	
3-speed pantograph wiper and windshield washer	✓	
Intermittent front wiper, 2-speed rear wiper and washer	✓	
Conaflex sound deadening, sound barrier floor matting	✓	
Slopemeter		✓
High back, fabric-covered air ride seat	✓	
Left and right arm rest	✓	

EXTERIOR FEATURES	STD	OPT
Steel panels and top hood, 2 hinged access doors, hinged rear grill	✓	
Top, rear and side panels removable without tools	✓	
Heavy-duty 10 gauge steel fenders	✓	
SMV – slow-moving vehicle sign	✓	
Pintle hitch		✓
2-5/16" ball hitch		✓
Rear licence plate bracket and light		✓
SAFETY FEATURES		
Neutral safety start switch	✓	
Automatic hydraulic power shut off if rotary mower wings raised	✓	
Automatic PTO shut down if operator leaves seat	✓	
Automatic engine shut down if operator leaves seat with shifter not in neutral position	✓	
Automatic hydraulic power shut off if operator leaves the seat	✓	
Application of service brake foot pedal activates more aggressive hydrostatic braking in conjunction with the service brake	✓	
Wire finger guard protection from engine fan blades	✓	
Reflective striping on both sides and rear of tractor	✓	
Pinch point, danger and caution decals	✓	
Backup alarm / Backup camera	✓	
White sound reversing alarm		✓
CAPACITIES	US	METRIC
Fuel Ultra low sulfur diesel ONLY	24.3 gal	94.0 L
Engine Oil John Deere Plus-50 II or equivalent	2.25 gal	8.5 L

CAPACITIES (CONTINUED)	US	METRIC
Coolant Must meet ASTM4985 (GM6038M)	5.68 gal	21.5 L
Hydraulic oil Hydrex MV46 or equivalent	19.8 gal	75.0 L
Differentials 80W90 EP or equivalent	2.4 qt	2.3 L
Reduction gearbox 80W90 EP or equivalent	1.1 qt	1.0 L
Mechanical transmission 80W90 EP or equivalent	3.2 qt	3.0 L
WEIGHTS & DIMENSIONS	US	METRIC
Overall length including rear bumper	149.5 in	3797 mm
Height to top of HVAC system	88.0 in	2235 mm
Track width with radial tires	49.5 in	1257 mm
Overall width including fenders	50.5 in	1283 mm
Weight with oils, coolant and full tank of fuel	6900 lbs	3130 kg
OTHER OPTIONS		
Heated mirrors		
Ride control		
Automatic grease system		
Sun visor		
Locking hoods		
Locking fuel cap		
Roof guard		
Hydraulic oil tank heater		
LED dome light		
Extra set of keys		
Front tractor weight kit		

ATTACHMENTS	REQUIRED
72", 10' or 14' Rotary Finishing Mower	Turf Tires
Aerator	Turf Tires
Front Flail Mower	Turf Tires
Stump Grinder	Turf Tires
Boom Flail Mower	Dual Tires
Asphalt Cold Planer - Deep Reduction Suggested Only	Deep Reduction
Concrete Cold Planer	Deep Reduction
Leaf Loader	Duals on Rear
Electric Infrared Asphalt Heater	
Buffalo Turbine Debris Blower	
Front End Loader with 49" or 77" Bucket	
80-Gallon (300 Litres) Water Tank and Spraying Systems	
150-Gallon (565 Litres) Stainless Steel Water Tank	
Spray Arm	
3', 4', 5', 6', 7' or 8' Power Angle Sweeper	
48" Pickup Sweeper	
51", 60" or 75" Ribbon Snowblower	
51", 60" or 70" Twin Auger Snowblower	
5-Position Folding V-Plow	
5', 6', 7' or 8' Angle Plow	
Fixed V-Plow	
Snow Lion Ice-Breaker	
Rear Mount Sidewalk Spreader	
Tow Behind Spreader	

SERIES 7

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