

# **T**rackless v e h i c l e s



## **Series V Diesel - Municipal Tractor**

*Advanced design for maximum  
productivity, safety and comfort*



*... from the leader in the municipal tractor field*



## AN INSIDE LOOK AT THE LEADER



The Trackless MT Series V Diesel is the fifth generation of municipal tractors designed and manufactured by Trackless Vehicles Ltd.

Twenty-eight years ago, Trackless began development of a totally new concept in North America – an articulated, four wheel drive tractor with interchangeable front mounted attachments. Our commitment has been to manufacture the most powerful, dependable and user-friendly tractor in its class, with a choice of attachments which allows 12 month utilization.

Today, hundreds of municipalities from small villages to large cities perform a wide variety of tasks with anywhere from 1 to 40 MTs.

Parks departments, airports, transit authorities, U.S. and Canadian military bases, school boards, hospitals and contractors have also purchased MTs for their specific requirements. The MT is manufactured in Canada using all Canadian and U.S. components.

After carefully studying the contents of this brochure, we hope you will see the advantage of going Trackless.



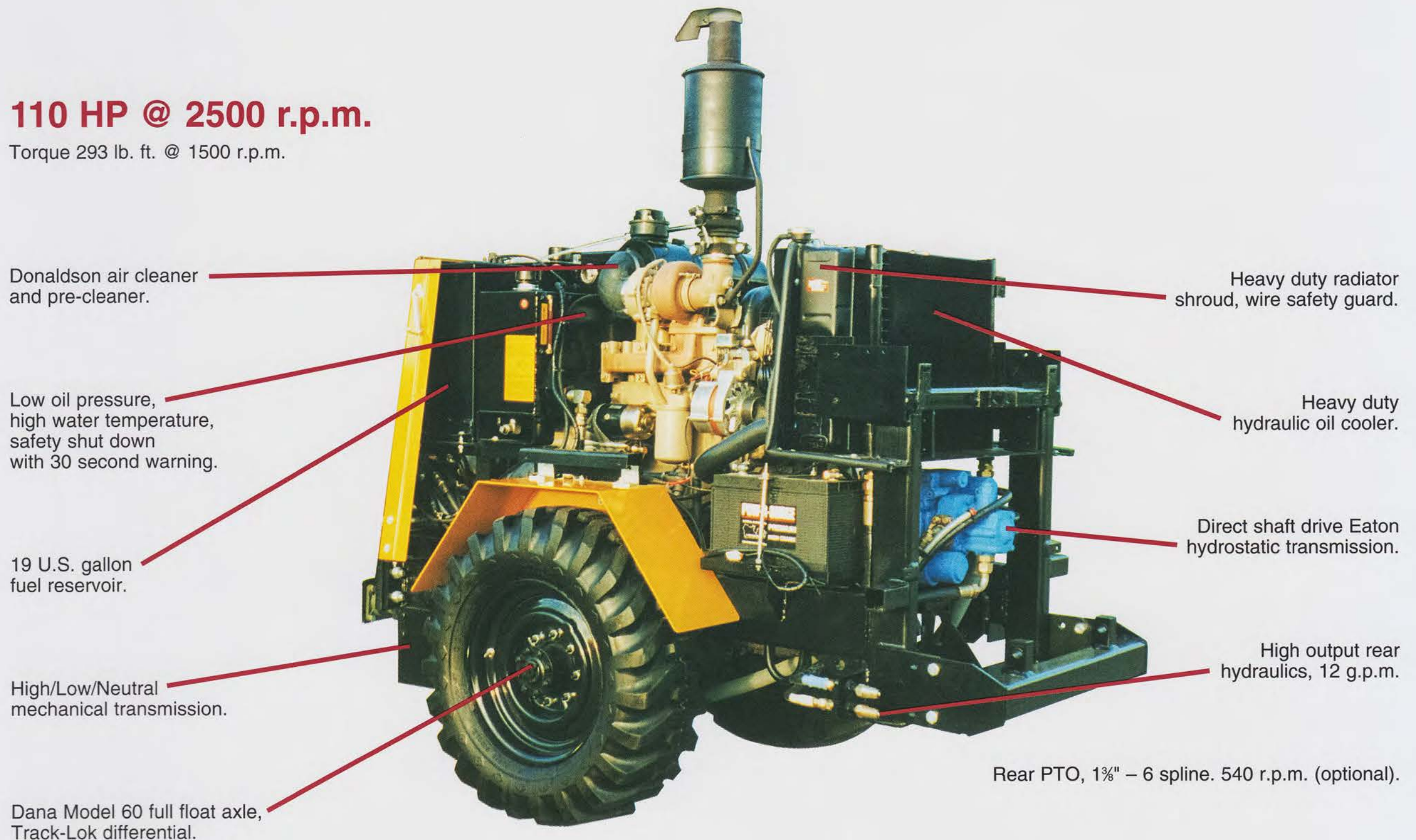
# DESIGNED FOR THE MOST EXTREME CONDITION ANY SEASON HAS TO OFFER

The MT Series V Power Team consists of the toughest, most durable and widely used drive train components in North America to ensure years of trouble free service. A Cummins 4BT3.9 diesel engine, Dana 60 axles, Eaton 33 hydrostatic and Twin Disc clutch, form an unbeatable combination.

Dana axles combined are rated at 11,800 lbs. and have automatic limited slip differentials which free the operator of engaging and disengaging a manual differential lock. As for the engine, the name Cummins says it all.

## 110 HP @ 2500 r.p.m.

Torque 293 lb. ft. @ 1500 r.p.m.



**40% more HP than any other tractor of its size.**

For many years, most have agreed that hydrostatic drive on various types of equipment is superior to multigear transmissions.

Whether blowing snow, cutting grass or sweeping, an operator must speed up and slow down hundreds of times per day. Depending on the job, he may also have to change direction repeatedly. With hydrostatic drive, changing direction or speed is accomplished by simply pushing forward or backward on the foot pedal until the proper speed

is established. The engine remains at a constant r.p.m. to obtain full PTO horsepower for the attachment. Built-in relief valves eliminate the possibility of breakdown from operator abuse. Less operator fatigue, more time watching for obstructions, and infinitely variable speed with no time lost shifting gears best sums up the simplicity, safety and higher productivity of the hydrostatic drive system.





### SIDE VIEW CAB

The MT V cab was carefully designed to increase productivity by making the operator as safe and comfortable as possible. The spacious interior, fully adjustable deluxe seat, carefully placed controls, tilt steering, AM/FM radio and excellent visibility all contribute to a comfortable, easy to operate tractor. The MT V certified ROPS cab meets SAE J1040-C specifications.



### REAR VIEW CAB

This picture, from the operator's viewpoint, shows how well he can see the gauges and controls as well as the attachment. The front mounted attachments turn with the cab and, due to the MT's articulated steering, it is very easy to guide the implement around obstructions.

### CAB FRAMEWORK

2 x 2 x .188 wall.  
ROPS tube.

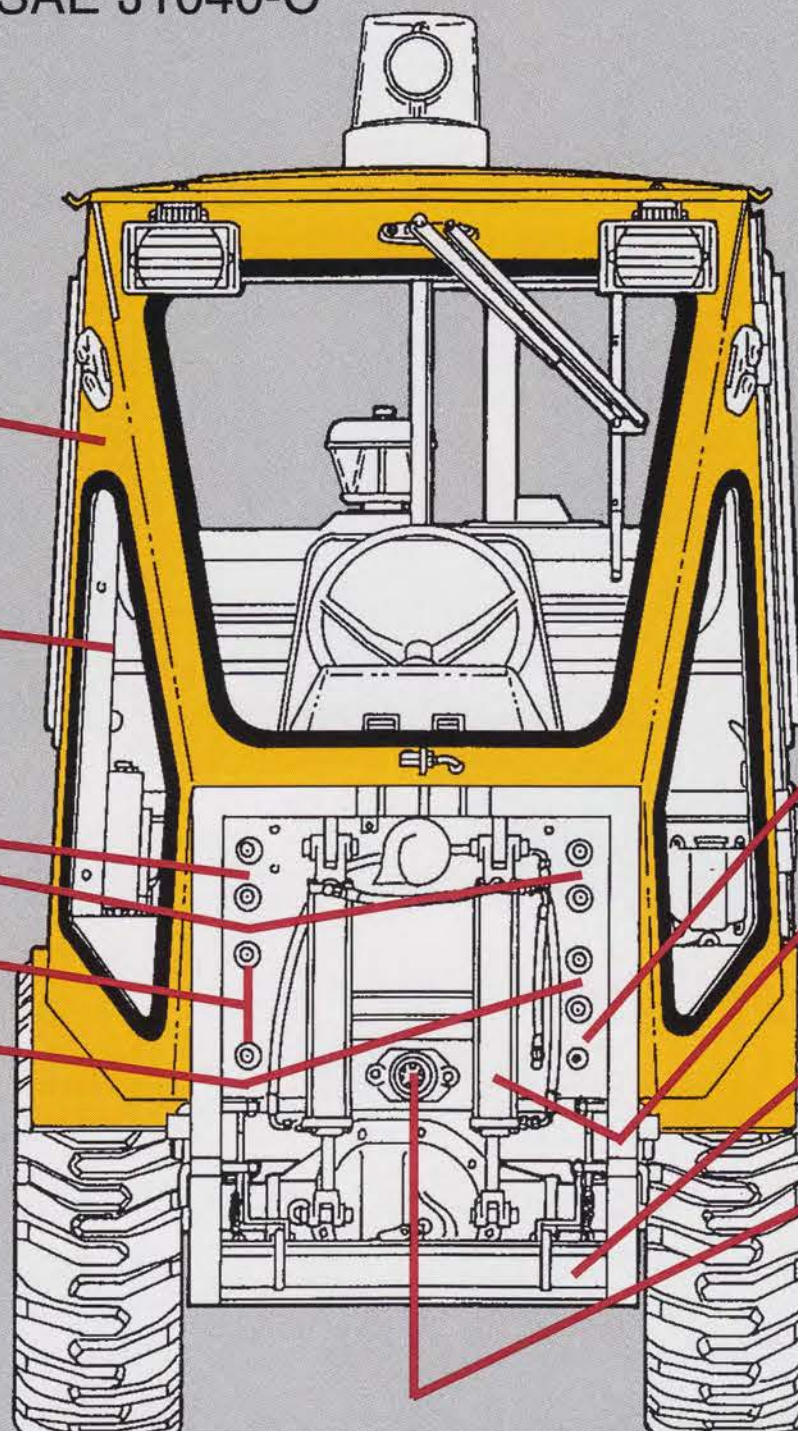
4 x 2 x .250 wall.  
H.S.S. tube.

Corner windows improve  
visibility when watching  
the attachment, curbs,  
obstructions, etc.

4 - Low volume  
hydraulic couplers.

2 - High volume  
hydraulic couplers.

2 - Optional high  
volume hydraulic  
couplers.



Water coupler to supply  
sweeper spray bars.

Twin cylinders lift  
attachments.

### TRACKLESS QUICK HITCH

Simple and quick to mount  
attachments.

Does not allow attachments  
to sway sideways.

Front PTO.  
1 1/2" - 6 spline.  
540 r.p.m.

### THINKING AHEAD

Every MT V has the switch, wiring, coupler and water hose installed to save installation time if a water tank is purchased at a later date. Hydraulic hoses and fittings are installed throughout the cab in case you wish to add the optional second set of high output hydraulic couplers. An additional

auxiliary switch, fuse and wiring with a jack in the cab and at the rear is ready for you to add any auxiliary electrical item you wish. Extra amperage you may require was taken into consideration when we chose to make the 61 amp alternator standard equipment.



# PARKED UNTIL NEXT SEASON?

## *NOT IF IT'S A TRACKLESS*

With a Trackless Series MT V, a variety of snow removal, sweeping, asphalt repair and mowing attachments provide year-round versatility.

14' Rotary Mower



Boom Flail



5', 6' or 7' Sickle Bar



74" Flail



72" Rotary



Plow and Sander



Cold Planer



120" Rotary



51" or 70" Snowblower



Pickup Sweeper



5' or 6' Angle Sweeper





# 51" – 70" SNOWBLOWER

The Trackless Snowblower is a highly efficient, two stage, twin auger unit that has no equal in removing snow from sidewalks.

It is available in two widths, 51 inch and 70 inch. Both will accept either a sidewalk chute or a quick change truck loading chute. Many municipalities utilize both chutes with their snowblower. After clearing their sidewalks, they change to the truck loading chute to load windrowed snow from the street or from cul de sacs. In both cases, the maneuverability and physical size of the MT and blower are less apt to create traffic congestion than larger snowblowers. An average loading time for the MT and snowblower is 7 yards per minute.

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

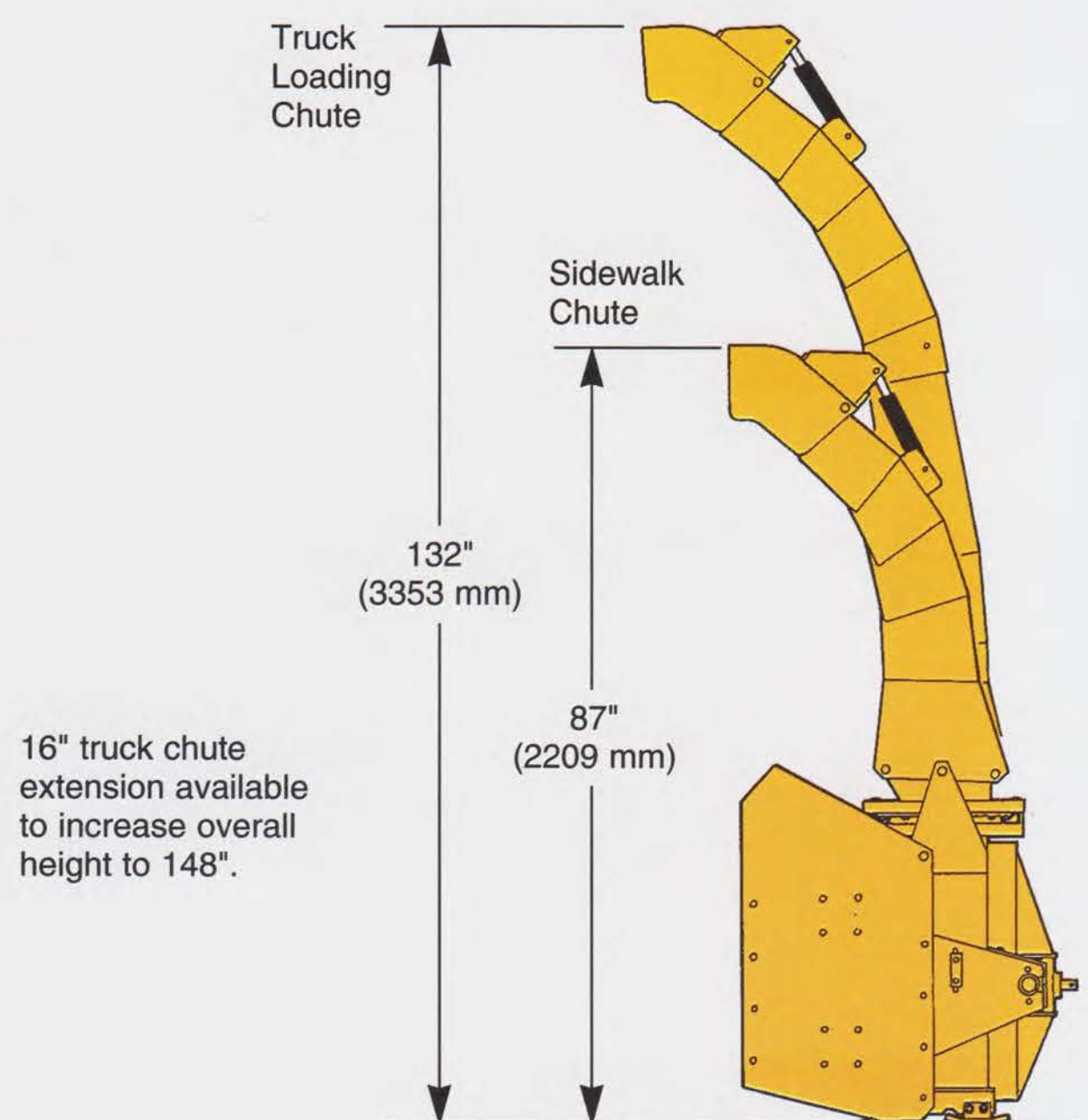
The snowblower is manufactured by Trackless Vehicles to ensure that the quality and service parts availability is equal to that of the MT.

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

## FOR FURTHER EVALUATION, A DEMONSTRATION MAY BE ARRANGED.

### SPECIFICATIONS

Housing: 51" wide x 38" high with 3/8" end plates.  
Augers: 2 – 13" diameter spiral with ice picks.  
Impeller: 6" x 24" – 4 blade.  
Impeller housing liner: 2 piece (replaceable).  
Turntable: Ball bearing.  
Chute rotator: Hydraulic motor and chain.  
Chute deflector: Hydraulic cylinder controlled.  
Cutting edge: 6" x 3/8" hardened (reversible).  
Shear bolts: On auger drive and main PTO drive.  
Adjustable cutting height: Using top link.  
Quick change truck loading chute: 11' clearance.  
Weight: 1,050 lbs.  
H.P. rating: 100.





# TRUCK LOADING



***“MORE POWER”***  
More production.

***“MORE COMPACT”***  
Less traffic congestion.

## ANGLE PLOW

### ANGLE PLOW

The Trackless Angle Plow is available in three widths using the same push frame. It is a full trip-type plow where the blade tips forward and rides up over the obstruction.



### SPECIFICATIONS

Blade length: 60", 72", 84".

Blade height: 23".

Cutting edge: ½" x 6" hardened (replaceable).

Skid shoes: 2 adjustable.

Blade angling: 30° left or right by hydraulics.

Cylinders: 2 single acting with cushion valve.

Trip: Full blade trip, returns to upright position when blade assembly raised.

All three blades interchangeable on same push frame.

Down pressure may be used.

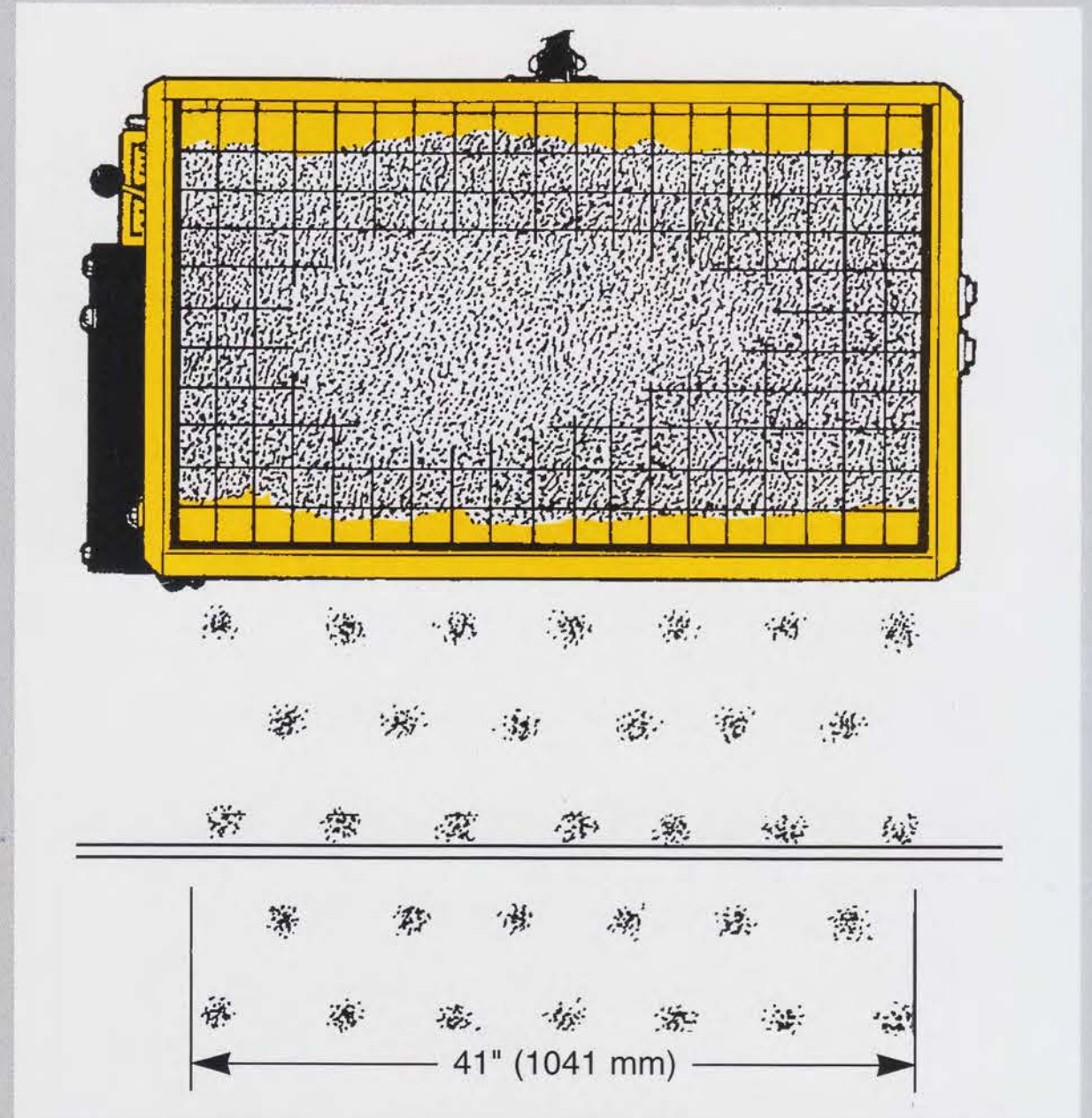




# SALT AND SAND SPREADER



The Trackless Mounted Spreader is used to apply salt, sand or a mixture. It is hydraulically driven and the amount of spread is controlled by an adjustment lever. As illustrated, the Trackless spreader conserves material by dispersing it evenly in a diamond pattern rather than a solid layer. The delivery roller maintains a 41 inch spread width. This prevents material waste as well as turf damage from salt, both of which can be a problem with spinner spreaders. As a result, reduced labour costs from fewer refills and lower material costs minimizes the overall cost of operation. The rigid rear mounting of the Trackless spreader does not interfere with daily tractor maintenance.



Three screw-jack stands enable one person to safely attach or remove the spreader without the aid of a lifting device.

Many customers also sand walkways as they sweep the snow away. Since separate hydraulic systems power both the sweeper and spreader, they can be engaged or disengaged independently.

## SPECIFICATIONS

Total width: 45".  
Spread width: 41".  
Capacity:  $\frac{1}{2}$  cubic yard.  
Drive: hydraulic.  
Spread distance: 3-8 miles.





## V PLOW

The Trackless V Plow is designed for higher speed plowing. The tapered nose and flexibility allows it to ride over sidewalk cracks while remaining flat. The rearward taper of the cutting edges minimizes damage to sidewalk toe trips.

An ideal combination for many municipalities is the V Plow and rear mounted spreader. Since the snow is split into two banks with some fall-back on each side, the cleared width is usually reduced from 49 inches to approximately 44 inches. The spreader then follows, laying down a 41 inch wide path of material.

### SPECIFICATIONS

Width at bottom: 49", at wings 51".  
Height at nose: 28", at wings 35".  
Cutting edge: ½" x 6" hardened (replaceable).  
Nose edge: ½" hardened plate (replaceable).  
Down pressure may be used.



## SWEEPING SNOW

At various times throughout the winter, sweeping snow is the answer. Outside ice rinks and inlaid brick walkways can be swept to a near-perfect surface. Early in the winter, or in milder climates, snowfall may arrive while the ground is not frozen. Plowing or snowblowing at this time can damage lawns abutting the sidewalk if the operator does not keep the machine perfectly centred on the sidewalk, or if the sidewalk is less than 48 inches wide. However, sweeping the snow eliminates the possibility of turf damage and citizens' complaints that follow. Some customers also choose to sweep and sand at the same time.

### SPECIFICATIONS

Broom diameter: 32".  
Broom width: 60" (72" optional).  
Overall width: 66".  
Sweeping pattern @ 30° angle: 50".  
Hydraulic drive.  
Hydraulic source: MT V Tractor.  
Stands for broom protection in storage.

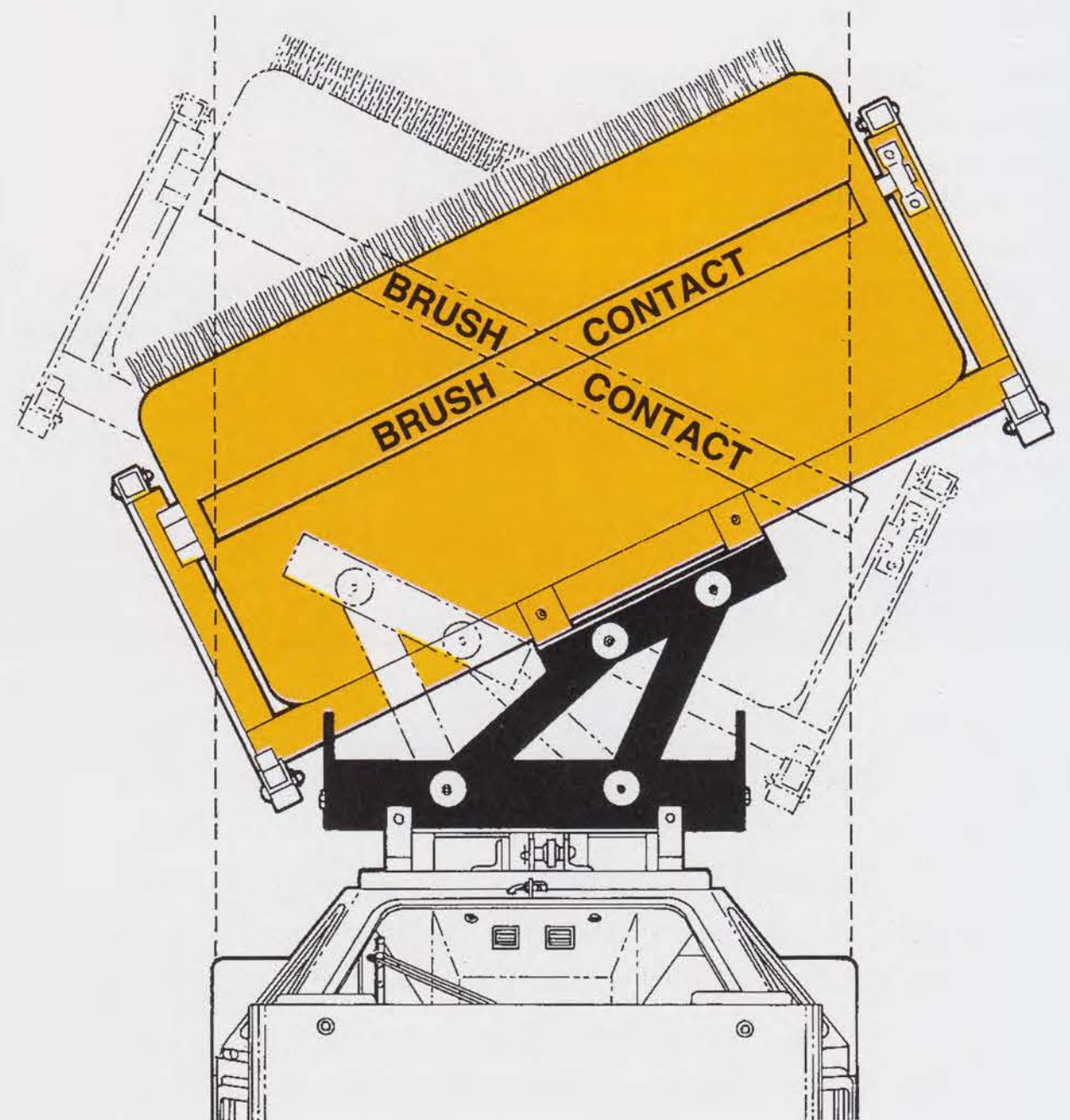




# POWER ANGLE SWEEPER



The Trackless Power Angling Sweeper may be utilized to perform a wide variety of tasks every month of the year. In addition to snow removal, as discussed on the previous page, sand, gravel or debris can be swept from sidewalks, parking lots, cul de sacs, intersections, lawns and other confined areas. Dethatching large lawns and playing fields is another ideal application for the angle sweeper. The high output hydraulic system of the MT V powers the broom. The advantages of being hydraulically driven include simplicity, low maintenance and relief valve protection. A scissor frame automatically centres the sweeping pattern in front of the MT as it is angled. The combination of articulated steering and the self-centering sweeper head, which may be used as a sideshift, offers maximum maneuverability in confined areas. If dust control is required, the water tank system may be added.





## PICKUP SWEEPER

The Trackless Pickup Sweeper is ideal for sidewalk cleaning in the spring to remove the sand accumulation from winter. It is driven for one or more blocks and then carried over the curb at intersections and hydraulically dumped by a bottom gate. The intersection is crossed, the sweeper lifted over the curb and continues. Rubber skirting on the sides and front eliminate most of the dust but best results are obtained by using the spray bar and rear-mount water tank.

### SPECIFICATIONS

Sweeping width: 48".  
Main body dimensions: 53" wide x 40" high x 50" long.  
Broom diameter: 32".  
Casters: 3 swivel casters, hard urethane tires.  
Dump: Bottom gate, hydraulic controlled.  
Drive: PTO to gearbox, shaft to right side, 60 chain to broom sprocket with idler sprocket.  
Broom height: Adjustable for wear.  
Capacity: Approximately 6 cu. ft.

## SPRAYING SYSTEM

A dust control spraying system is recommended for use with sweepers. It consists of a rear-mounted 80 U.S. gallon tank with 12 V electric pump, relief valve and hoses. All MTs have electric wiring, hose and switch installed, ready for this system. A front nozzle and hoses must be ordered separately for each type of sweeper.

## COLD PLANER

Today, asphalt milling is the method of choice over excavation. The cold planer is ideal for repairs to asphalt abutting manhole covers, curbsides, gutters and driveways. It is also utilized for pothole repair and utility cuts. With the deep low range option, milling speed is 10 ft./min.

### SPECIFICATIONS

Cutting width: 16".  
Cutting depth: 0 – 6".  
Number of picks: 50.  
Hydraulic tilt, depth, side shift.  
Drive: Double reduction planetary.  
Weight: 1,750 lbs.

## SICKLE BAR MOWER

The Triumph Sickle Bar Mower is quickly attached to the MT V and uses the Trackless hydraulic system and valves for operations. It is front-mounted and visibility to the operator is excellent.

### SPECIFICATIONS

Triumph Series 2500.  
Hydraulic plus Pitman drive.  
Cutter bar angle: -75° to +90°.  
Tilt: -10° to +10°.  
Curb lift: 12".  
Safety break back: 90°.  
Cutter bar length: 5', 6', 7'.





# 74" FLAIL MOWER



The Trackless All Purpose Heavy Duty Flail was designed to cut grass, weeds and light brush whether on smooth lawn or rough terrain. Due to its versatility and durability, the flail has become a popular choice. Only 33 of the 2 $\frac{3}{4}$ " wide blades cut a 74" width. The straight cutting edge of each blade is parallel to the ground to obtain a velvet smooth cut on well maintained lawns. The weight and shape of the blades allow the mower to cut and mulch light brush, shrubs and weeds. A unique feature of the Trackless flail mower is its flexibility, front to rear, as shown in the illustration. This ensures an even cut and no turf damage when cutting up and over knolls. It also prevents the need to raise the mower when approaching a hill. The 33 blades may be sharpened with a 5 inch disc grinder without being removed from the mower. Shear pin protection avoids damage to the drive system if the mower blades strike an obstruction.

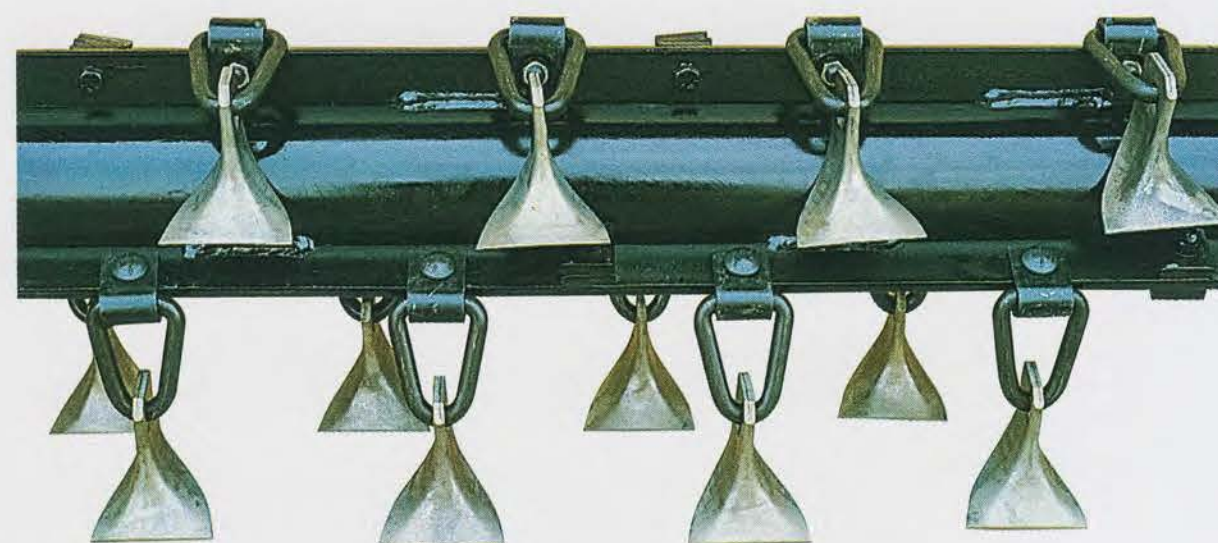
The Trackless dealer in your area would be pleased to have the opportunity to demonstrate the MT and flail mower.

## SPECIFICATIONS

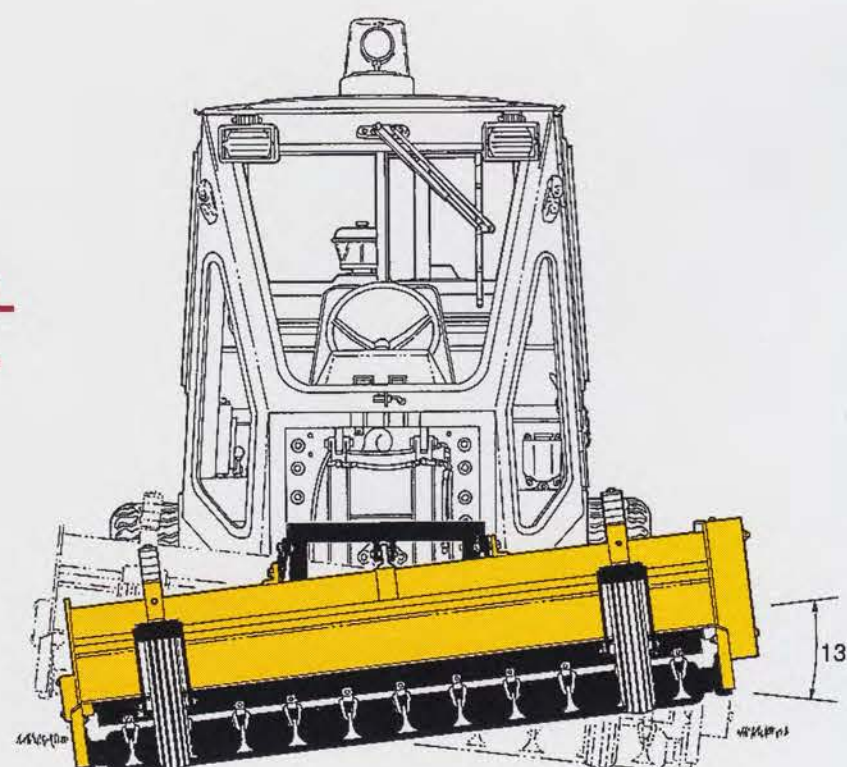
Cutting width: 74".  
Cutting height: 1 – 4".  
Gauge wheels: 2 – 16" x 4" semi-pneumatic.  
Gauge roller: 6" diameter steel, full width.  
Rotor tube: 4" diameter with 1 $\frac{1}{8}$ " shaft.  
Blades: 33 – 2 $\frac{3}{4}$ " wide (can be resharpened).  
Blade and rotor cutting diameter: 18".  
Drive: PTO, gear box, cross shaft, 2 V-belts with spring-loaded idler pulley.  
Rear deflector: Reinforced rubber.  
Linkage: Flexible for uneven ground.  
Rotor speed @ 540 PTO: 1780 r.p.m.  
Blade tip speed @ 540 PTO: 8380 ft./min.



**FRONT TO REAR  
FLEXIBILITY AND  
HIGH LIFT.**



**HORIZONTAL  
FLEXIBILITY.**





# BOOM FLAIL

Almost every municipality has several areas which are difficult, unsafe or impossible to mow. Ditch, steep incline, over guard rail and waters-edge cutting become problems of the past once the Trackless boom flail enters the scene.

Trackless boom flail advantages include:

- 1) Better visibility than side or rear mount boom flails resulting in less operator fatigue and safer operation.
- 2) Can be removed from the Trackless MT V in approximately 10 minutes. Within minutes another attachment can be installed and the operator can be on the way to another job site.
- 3) Hydrostatic control of the ground speed by simply pushing the foot pedal ahead or back, allows the operator to react more quickly when approaching an obstruction. It also allows the operator the ability to constantly vary the ground speed, as necessary, without shifting gears, which results in higher productivity.
- 4) Compact size of the Trackless MT V and boom flail interferes with passing traffic less than larger agricultural-type tractor/mower combinations. The compact size is also beneficial when transporting to and from the job site.



## SPECIFICATIONS

Width of cut: 51"; overall width of head 64½".

Horizontal reach: center of MT V to outside cut 13½ ft.

Below grade cut: 53".

Vertical reach: 13½ ft.

Overall level ground cutting coverage: 11 ft.  
starting 5" inside outer tire.

Number of cutting blades: 36.

Weight: wet and with counterweights – 1,960 lbs.



# COMMERCIAL FINISHING MOWERS

## TRACKLESS 72" ROTARY

The Trackless front mounted 72" rotary mower is designed for close trimming on both sides with a full width rear discharge. Four large gauge wheels and flexible attaching frame allow accurate cutting on rolling ground. Due to the MT V's hydrostatic transmission, maximum speed of cutting can be maintained in various cutting conditions by simply easing up on the foot pedal in heavier grass or depressing the pedal further for a faster ground speed where grass is shorter. Articulated steering gives the operator precise control in trimming.



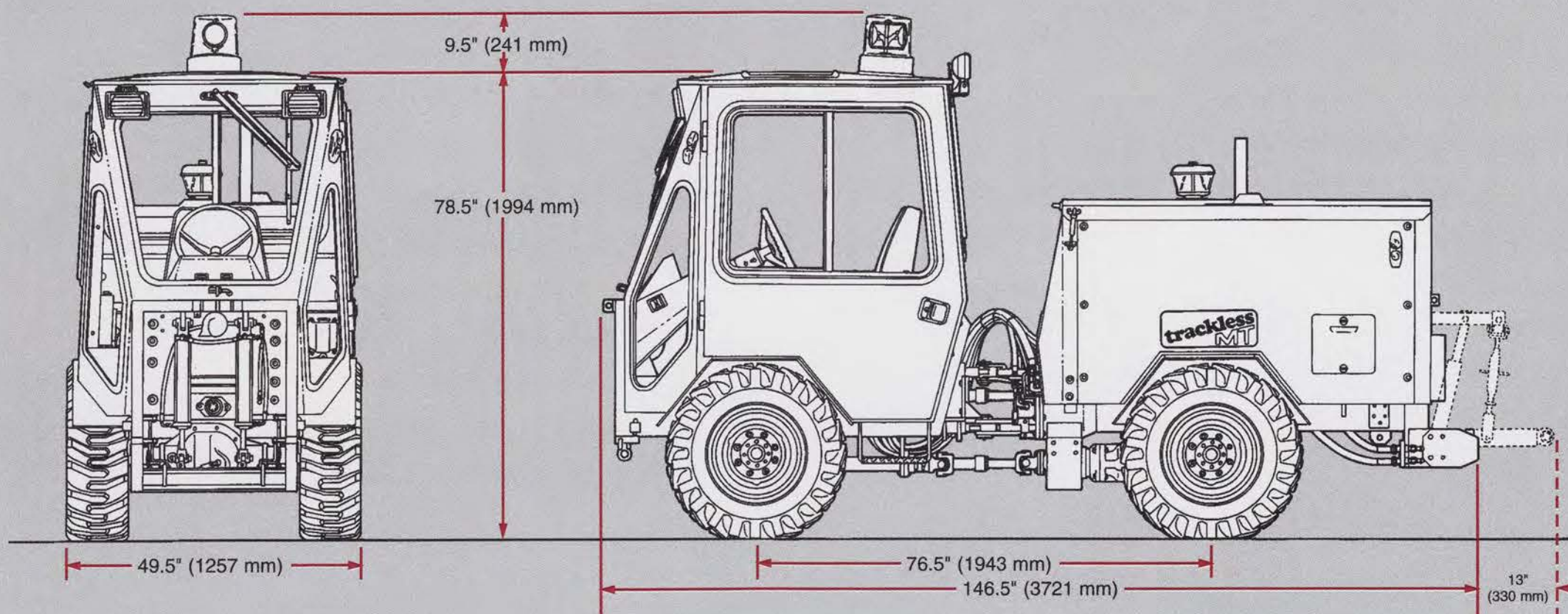
## TRACKLESS 120" AND 168" ROTARY

The Trackless wing type mower was designed to drastically cut mowing time on large areas such as campuses and parks. Normal undulating ground requires flexibility in mowers to avoid scalping. Trackless solved this problem with a 3 section, front mounted mower comprised of a 72" 3-spindle, PTO driven centre section with a hinged hydraulic driven wing on each side. Separate valves control each hydraulic motor and lift cylinder. The MT V has a built-in hydraulic system to power the right wing and an optional pump and valve to power the left wing. Safety switches shut off the wings automatically when raised.



## SPECIFICATIONS

Deck: 72" -  $\frac{3}{16}$ " plate, rear discharge.  
 Spindles: 3 - Timken bearings, greasable.  
 Blades: 3 - 25" x 2 $\frac{1}{2}$ " x  $\frac{1}{4}$ " high lift.  
 Casters: Four swivel with 4" x 10" pneumatic tires.  
 Drive: PTO to right angle gear box, 2 V-belts.  
 Cutting heights: 1 $\frac{1}{2}$ " - 4" in  $\frac{1}{2}$ " increments.  
 Cutting tip speed: 18,500 f.p.m. @ 2200 engine r.p.m.  
 Wings: 24" or 48".  
 Caster: 1 - 4" x 10" pneumatic on 24" wing; 3 on 48" wing.  
 Roller: 1 gauge on 24" wing only.  
 Hydraulic motor drives spindle by V-belt.  
 Lift cylinder: Hydraulic - 2" x 8".  
 Hinge: Compound - 110° ARC.





# TRACTOR SPECIFICATIONS

## ENGINE

Cummins Model 4BT3.9 Diesel.  
Displacement: 239.3 cu. inch.  
Horsepower: 110 BHP @ 2500 r.p.m.  
Torque: 293 lb. ft @ 1500 r.p.m.  
Equipped with cold start aid, block heater, Donaldson air cleaner and pre-cleaner, 61 amp alternator.

## COOLING

Cross flow radiator with shroud and finger guard.  
Cross flow oil cooler.  
Thermostatically-controlled viscous drive fan.

## PTO CLUTCH

Twin Disc over centre.  
Electric over hydraulic actuation.

## POWER TAKE OFFS

Front: 1 $\frac{3}{8}$ " – 6 spline, 540 r.p.m.  
Rear: 1 $\frac{3}{8}$ " – 6 spline, 540 r.p.m. (optional).

## HITCHES

Front: Trackless quick attach with dual lift cylinders.  
Rear: Cat. 1, 3 pt. hitch with dual lift cylinders (optional).

## PTO REDUCTION BOX

110 h.p. Trackless 4:1 reduction.

## TRANSMISSIONS

Eaton series 33 hydrostatic and Trackless 2-speed mechanical gives infinitely variable speeds forward and reverse in two speed ranges. Foot controlled for convenience.  
Deep reduction (optional).

## HYDRAULICS

Standard equipment.  
18 g.p.m. engine driven gear pump. Priority valve directs portion of oil to steering, remainder goes to 5 spool valve front lift cylinders, rear 3 pt. hitch lift cylinders, 2 other functions plus a power valve for remote hydraulic driven equipment. All oil is filtered and cooled before returning to tank. 55 g.p.m. in tank return filter.

## DRIVE SYSTEM

Hydrostatic transmission driven at engine speed.  
The matching hydraulic motor is attached to the Trackless 2-speed transfer case which drives the front and rear axles. This gives constant 4 wheel drive. Since the MT is articulated, front and rear wheels track perfectly.

## AXLES

Dana Model 60 full float with Track-Lok differentials, front and rear. Track-Lok goes into action immediately when one wheel attempts to spin. Competitive differential locking device cannot be engaged in a turn. Capacity 5900 lbs. per axle.

## BRAKES

12" x 2 $\frac{1}{2}$ " hydraulic on all 4 wheels. Parking brake is mechanical on front brake shoes. Warning buzzer denotes "ON" when engine is running.

## WHEELS

Heavy duty 8 bolt 6 $\frac{1}{2}$ " B.C.  
15" and 16 $\frac{1}{2}$ " diameter.

## TIRES

Winter: 31 x 10.00 x 16.5 – 6 ply.  
Summer: 32 x 13.50 x 15.0 – 4 ply.  
Duals: 31 x 10.00 x 16.5 – 6 ply.

## LIGHTS

2 adjustable Halogen headlights.  
1 adjustable Halogen back-up light.  
2 tail-lights with turn signals.  
4 turn signal markers; 4-way flashers.  
Revolving sealed beam flasher available in blue or amber.

## INSTRUMENTS

Murphy automatic safety shut-down control for low oil pressure and high water temperature. Tachometer with hourmeter, water temperature, oil pressure, volt meter, hydraulic oil temperature, fuel gauge. Internally illuminated. Rocker type illuminated switches in overhead type console. One unused auxiliary switch. Fuel tank: 19 U.S. gallons (72 litres).

## CAB

Certified ROPS type meets J1040-C specifications. One man type with 6 tinted safety glass windows. Two side sliding windows. Seat, deluxe cloth covered torsion type, with 4 adjustment levers plus weight adjustment. Horn. Heavy duty heater-defroster. 2-speed pantograph wiper, windshield washer. Inside rear view mirror. Dome light. Seatbelt. Sound deadening lining. Removable door and side panel. Convenient controls. AM-FM radio.

## STEERING

Articulated hydraulic steering with tilt steering wheel, hazard button and turn signal lever are mounted on steering column.

## FRAME

4 piece fabricated steel for articulation and oscillation.

## SPEEDS

Low-range: 0 – 8.0 m.p.h.  
High range: 0 – 19.0 m.p.h.  
Deep Low: 0 – 0.6 m.p.h. (optional).

## DIMENSIONS

Wheel base: 76 $\frac{1}{2}$ ".  
Length, less liftarms: 146 $\frac{1}{2}$ ".  
Height, top of cab: 78 $\frac{1}{2}$ ".  
Width: 49 $\frac{1}{2}$ " with single loader lug tires; 60" with turf tires; 74" with dual loader lug tires.  
Weight: Rear axle approximately 3,440 lbs.  
Front axle approximately 1,940 lbs.  
Total 5,360 lbs.

## OPTIONAL EQUIPMENT

1. Transmission driven, 12 g.p.m. gear pump and valve for extra auxiliary equipment.
2. Air conditioning.
3. Back-up alarm horn.
4. Rear 3 pt. hitch, cat. 1.
5. 540 r.p.m rear PTO.
6. Outside mirrors.
7. Deep low transfer case.
8. Air ride seat.
9. Roof light and A/C branch guards.



THE



*trackless*

TEAM

"AT YOUR SERVICE"



Our extensive dealer network will be pleased to discuss your requirements, demonstrate and deliver your equipment. Instructions will be given to your operators and mechanics in operation and service procedures.

With their parts stock, plus factory shipments within 24 hours, our dealers will help you keep your downtime to a minimum.



**TRACKLESS VEHICLES LTD.**

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Due to our policy of continuous product improvement, specifications are subject to change without notice.

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