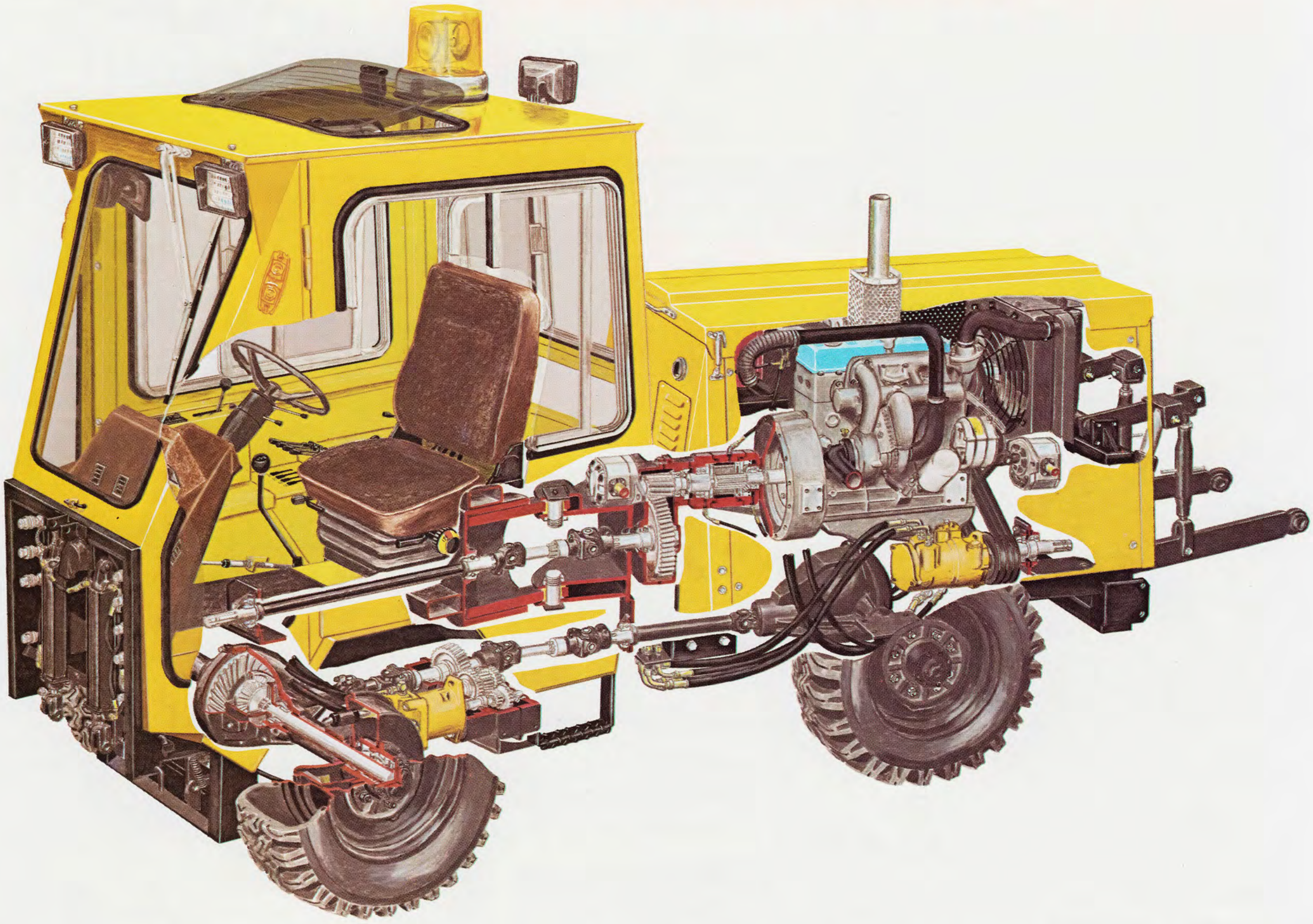
FIRST IN CLASS

trackless MT

SERIES IV DIESEL
municipal tractor

A TOTALLY NEW DESIGN FOR MORE COMFORT AND PRODUCTIVITY FROM THE LEADER IN THE MUNICIPAL TRACTOR FIELD. HUNDREDS OF MUNICIPALITIES HAVE CHOSEN TRACKLESS SINCE 1978

AN INSIDE LOOK AT THE LEADER



The new Trackless MT Series IV Diesel is the fourth generation of articulated four wheel drive municipal tractors from Trackless Vehicles. The MT is now the accepted standard in municipal snow removal and grass cutting tractors. Over 300 municipalities in Canada and U.S.A. own from 1 unit to a fleet of 23.

The MT IV was redesigned completely to carry a wider selection of attachments both on the front and rear and to offer more operator comfort and convenience for greater productivity.

A few exclusive features not available elsewhere are:

1. A 77 HP turbo-charged 4 cylinder diesel.
2. Two 5900 lb. capacity axles with limited slip differentials.
3. Hydrostatic transmission for infinite speed control while maintaining PTO speed. This is imperative in snow blowing to minimize chute plugging.
4. Built-in hydraulics to power various attachments.
5. Larger Certified ROPS Cab with exceptional comfort, visibility and convenient instruments and controls.
6. Front and rear 540 RPM PTO with Trackless Quick Hitch on the front and Cat 1 three point hitch on the rear.
7. Last but most important — Canadian designed and manufactured using all Canadian and U.S. components. You are not dependant on offshore spare parts from one source.

The Trackless MT IV has a wide range of attachments for four season use.

For winter there are two sizes of snow blowers with two types of chutes, three sizes of power angling snow plows, a V plow, a mounted salt and sand spreader and a power angling sweeper. For spring there is a pickup sweeper as well as the power angling sweeper. For summer there are flail mowers, sickle bar mowers, under guardrail trimmers and rotary mowers. The new Trackless rotary is a 72″ wide three blade front mounted PTO driven unit. There are two 24″ hydraulic driven wing attachments available which convert it to a 10′ cut mower.

More attachments will be available in the future.

SIDE VIEW CAB

Our new cab was carefully designed to increase productivity by making the operator as safe and comfortable as possible. A 25% increase in size, fully adjustable deluxe seat, carefully placed controls, better sound deadening, tilt steering, AM/FM radio, and better visibility all contribute to a comfortable, easy to operate tractor.

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.

SNOW BLOWER

The Trackless Snow Blower is a highly efficient two stage twin auger unit that has no equal in removing snow from sidewalks. It is so efficient that many owners are using them for truck loading. An average loading time is seven yards a minute. 51″ and 70″ blowers are available.

SPECIFICATIONS:

Housing: 51″ wide x 38″ high with 3/8″ end plates.
Augers: 2 - 13″ diameter spiral.
Impeller: 6″ x 24″ — 3 blade.
Impeller housing liner: 2 piece (replaceable).
Turn table: 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: 9′5″ clearance.
Weight: 1,050 lbs.
H.P. rating: 80

ANGLE PLOW

The Trackless Angle Plow is avaiable in three widths using the same push frame. It is a full trip-type plow where the blade trips forward and rides up over the obstruction. This avoids those sudden stops encountered by cutting-edge trip plows when a higher obstruction is struck.

SPECIFICATIONS:

Blade length: 60″, 72″, 84″.
Blade height: 23″.
Cutting edge: 1/2″ 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.

V PLOW

The Trackless V Plow is designed for higher speed plowing. Since it splits the snow into two banks it is recommended for residential areas. The tapered nose and flexibility allows it to ride over sidewalk cracks and remain flat. The rearward taper of the cutting edges minimizes damage to turf.

SPECIFICATIONS:
Width at bottom: 49″, at wings 51″.
Height at nose: 28″, at wings 35″.
Cutting edge: 1/2″ x 6″ hardened (replaceable).
Nose edge: 1/2″ hardened plate (replaceable).
Down pressure may be used.

POWER ANGLING SWEEPER

The Trackless Power Angling Hydraulic Driven Sweeper gives the operator precise control of the direction and amount of angle desired for different applications. A special push frame keeps the centre of the sweeping pattern in line with the centre of the MT in all positions. As well as the normal spring and fall sweeping programs, municipalities are using it for snow clearing in lighter snow falls and on inlaid brick to avoid damage. Spray bar and rear mounted water tank are advised for dust control.

SPECIFICATIONS:
Broom diameter: 32″
Broom width: 66″
Sweeping pattern at 30° angle: 50″
Broom drive motor uses MT hydraulics.
Turn cylinder uses MT hydraulics.
Lift cylinder uses MT hydraulics.
Four built-in stands for broom protection in storage.

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″ W x 40″ H x 50″ L
Broom diameter: 32″
Casters: 3 swivel casters, hard rubber tires.
Dump: Bottom gate, hydraulic controlled.
Drive: PTO to gear box, shaft to right side, 60 chain to broom sprocket with idler sprocket.
Broom height: Adjustable for wear.
Capacity: Approx. 6 cu. ft.

SPRAYING SYSTEM

A dust control spraying system is recommended for use with sweepers. It consists of a three-point hitch mounted 80 U.S. gallon tank with 12-V electric pump, relief valve and hoses. All MT's 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.

TRACKLESS COMMERCIAL 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 a nose roller allow close, accurate cutting on rolling ground. Due to the MT IV's hydrostatic transmission, maximum speed of cutting can be maintained in various cutting conditions. Articulated steering gives the operator precise control in trimming.

TRACKLESS 120″ ROTARY

The Trackless wing type mower was designed to drastically cut mowing time on those large areas such as campuses and parks. Normal undulating ground required 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 24″ hydraulic driven wing on each side. Separate valves control each hydraulic motor and lift cylinder giving the operator the option of 72″, 96″ and 120″ cutting width. The MT IV has a built-in hydraulic system to power the right wing and an optional pump and valve to power the left wing.

SPECIFICATIONS:

Deck: 72″ - 10 gauge, rear discharge.
Spindles: 3 - Timken bearings, greasable.
Blades: 3 - 25″ x $2^1/_2$″ x $^1/_4$″ highlift.
Casters: Four swivel with 4″ x 10″ pneumatic tires.
Drive: PTO to right angle gear box.
V-Belts: 2 - 1 to centre and left; 1 to centre and right.
Idlers: 2 - spring loaded.
Cutting heights: $1^1/_2$″ - 4″ in $^1/_2$″ increments.
Cutting tip speed: 18,500 FPM @ 2200 engine RPM.

Wings: 24″.
Caster: 1 - 4″ x 10″ pneumatic.
Roller: 1 gauge.
Hydraulic motor drives spindle by V-Belt.
Lift cylinder: hydraulic - 2″ x 8″.
Hinge: Compound - 110° ARC.
Control valves: 2 - 1 power, 1 lift.

FLAIL MOWER

The new Trackless Heavy Duty Flail Mower was re-designed to make it cut faster, last longer and be more economical to maintain. Only 33 of the new $2^3/_4$″ wide blades cut a 74″ width. Larger diameter rotor and blade assemblies produce a tip speed of over 100 m.p.h. Lawn type grass is cut velvet smooth and high weeds are mulched evenly for rapid deterioration. Newly designed push frame allows more flexibility. New anti-wrap shields protect rotor and roller bearings.

SPECIFICATIONS:

Cutting width: 74″ Cutting height: 1-4″
Gauge wheels: 2 - 16″ x 4″ semi-pneumatic.
Gauge roller: 5″ diameter steel full width.
Rotor tube: 4″ diameter with $1^7/_{16}$″ shaft.
Blades: 33 - $2^3/_4$″ 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. per minute.

UNDER GUARD RAIL MOWER

The Triumph Under Guard rail Mower is quickly attached to the MT IV and uses the Trackless hydraulics and valves for operation. It will mow up to 10″ behind rail posts at speeds up to 2 MPH. The floating 26″ cutter head allows cutting from 10″ above to 6″ below ground level and rises to 90° for transport.

SPECIFICATIONS:
Blade: 26″ x $^{3}/_{8}$″ reversible.
Spindle: $1^{9}/_{16}$″ bearing diameter.
Hydraulic motor governed to 2500 RPM.
V-belt drive to spindle.
Cutting height: 3″.

SICKLE BAR MOWER

The Triumph Sickle Bar Mower is quickly attached to the MT IV 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′.

SAND SPREADER

The Epoke PM2 mounted spreader is used for salt, sand or a mixture. It is PTO driven and the amount of spread is controlled by an adjustment lever. Spot spreading is accomplished by stopping and starting the PTO from the cab. The Epoke spread pattern gives more effective coverage with less material.

SPECIFICATONS:
Total width: 42″.
Spread width: 40″.
Capacity: 6 cu. ft.
Drive: 540 RPM PTO.
Spread distance: 3-4 miles.

3 POINT HITCH AND REAR PTO

The MT IV Cat. 1 - 3 point hitch is controlled by a valve in the cab. The lift arms are raised by 2 hydraulic single acting cylinders. The rear PTO is standard $1^{3}/_{8}$ 6 spline 540 RPM and designed to transmit full engine HP.

SPECIFICATIONS

ENGINE
Continental 4 cycle diesel.
Displacement: 2.7 litres, 164 cu. inch.
Horsepower: 59 @ 2600.
Torque: 121 ft. lbs. @ 1800.
Turbo H.P.: 77 @ 2600.
Turbo torque: 159 ft. lbs. @ 2150.
Equipped with governor, cold start aid, block heater, dry air cleaner.

COOLING
Cross flow radiator.
Cross flow oil cooler.

P.T.O. CLUTCH
Ausco multiplate disc type oil cooled and hydraulically operated.

POWER TAKE OFFS
Front: 1 3/8 6 spline, 540 r.p.m.
Rear: 1 3/8 6 spline, 540 r.p.m.

HITCHES
Rear: Cat. 1, 3 Pt. hitch with dual lift cylinders.
Front: Trackless quick attach with dual lift cylinders.

P.T.O. REDUCTION BOX
90 h.p. Trackless 4:1 reduction with output shafts for front and rear P.T.O.'s.

TRANSMISSIONS
Sundstrand hydrostatic combined with Trackless 2 speed mechanical gives infinitely variable speeds, forward and reverse in two speed ranges. Foot controlled for convenience.
Far superior to clutches and multigear transmissions.

HYDRAULICS
Standard equipment.
12 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.

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 Trac-Lok differentials front and rear. Trac-Lok goes into action immediately one wheel attempts to spin. Competitive positive differential locking device cannot be engaged in a turn. Capacity 5900 lbs. per axle.

BRAKES
12″ x 2 1/2″ hydraulic on front wheels. Rear wheels are braked through drive line. Parking brake mechanical on front brake shoes. Warning buzzer denotes "ON" when engine running.

WHEELS
Heavy duty 8 bolt 6 1/2″ B.C.
15″ and 16.5″ diameter.

TIRES
Winter: 9.50 x 16.5 8 ply
Summer: 31 x 13.5 x 15 4 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, amp. meter, hydraulic oil temperature, fuel gauge. Internally illuminated. Rocker type illuminated switches in modern roof type console. 2 unused auxiliary switches. Fuel tank: 12 U.S. gallons.

CAB
Certified ROPS type meets J1040-C specifications. One man type with 6 tinted safety glass windows, including roof window for better visibility in truck loading. 2 side and rear windows, sliding type. All windows can be removed with a sharp push for emergency exit. 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, seat belt, sound deadening lining, removable door and side panel, convenient controls and AM-FM push button radio.

DRIVE TRAIN
Dana Spicer.

STEERING
Articulated hydraulic steering with tilt steering wheel, hazard button and turn signal lever are mounted on steering column. 40° turn each way from centre.

FRAME
3 piece fabricated steel for articulation and oscillation.

SPEEDS
Low range: 0-8 m.p.h.
High range: 0-20 m.p.h.

DIMENSIONS
Wheel base: 76″
Length, less liftarms: 11′6″
Height top of cab: 77 1/2″
Width: 49 1/2″
Turning diameter inside approx. 12′
Weight — Rear axle approximately: 2,920 lbs.
Front axle approximately: 1,980 lbs.
Net carrying capacity, front: 3,920 lbs.
Net carrying capacity, rear: 2,980 lbs.

OPTIONAL EQUIPMENT
1. Transmission driven, 12 g.p.m. gear pump and valve for extra auxiliary equipment.

   Note: All cabs have hoses and couplings installed for easy installation of this optional hydraulic package.
2. Electric water pump for sweeper spray bar. Hose and wiring installed on every MT.
3. Back-up alarm horn.

A NEW GENERATION OF TRACKLESS MT

The new Trackless MT IV is the result of many months of designing and testing. A new standard has been set for sidewalk snow removal and grass cutting.

The basic design of narrow, articulated four wheel drive with adequate power and hydrostatic transmission has not been changed. The MT III introduced in 1978 was chosen by hundreds of municipalities, parks, airports and contractors.

Our newest and best, the MT IV, has a much larger, more comfortable cab, rear 3 point hitch as well as Trackless Quick-Attach front hitch, and rear 540 PTO. Heavier axles permit mounted sand spreaders on the rear.

In the past, the type of tractors and equipment offered to municipalities restricted their use to either winter or summer. Now the MT IV works equally well both in winter and summer with a wide range of attachments. With limited budgets and the increasing cost of equipment, it is necessary to buy multi-use machines to maintain proper levels of service at reasonable cost.

We ask that you study this brochure carefully and see how the Trackless MT IV can fit into your operation and save you money. Our dealers will be pleased to arrange a demonstration.

trackless MT

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

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