



PARKS, RECREATION & FORESTRY

1900 AVIATION DRIVE
WAUKESHA, WISCONSIN 53188-2471
TELEPHONE 262/524-3737 FAX 262/524-3713

Ron Grall, Director
rgrall@waukesha-wi.gov

October 12, 2021

To: Parks, Recreation & Forestry Board (PRFB)

RE: PRFB Agenda Item - Approve the purchase of a 2022 Trackless

This request is for the final approval to purchase a 2022 Trackless through MacQueen equipment, in the amount of \$ **162,089.29**. The replacement Trackless is a MT7. This is replacing a Trackless MT5, that is used primarily for snow duties on Park and City properties. This machine's price was obtained through State bidding. This was approved in the 2022 CIP Fleet Budget.

Thank you,

Melissa Lipska

Melissa Lipska
Parks & Forestry Operations Manager





**MACQUEEN
EQUIPMENT**



**MACQUEEN
EMERGENCY**

MacQueen Equipment
N60 W15835 Kohler Lane
Menomonee Falls, WI 53051
262-252-4744 • 800-252-4799

PLEASE REMIT TO:
MacQueen Equipment
1125 7th Street E
St Paul, MN 55106
651-645-5726 • 800-832-6417

Ship To: WAUKESHA PARK & RECREATION
1900 AVIATION DR
WAUKESHA WI 53186

Invoice To: WAUKESHA PARK & RECREATION
1900 Aviation Dr
Waukesha WI 53186

Branch 02 - MENOM FALLS WI		
Date 08/17/2021	Time 8:06:10 (O)	Page 1
Account No WAUKE004	Phone No 2625243722	Inv No 02 E00756
Ship Via	Purchase Order VERBAL	
Tax ID No		
TYLER GAGE		Salesperson 142

EQUIPMENT INVOICE

Description	Amount
Stock #: C037139 Serial #:	162089.29
New TR MT7 TRACKLESS MT7 Air conditioning, additional heat, cab pressurizer, climate control, 8 amber strobes w/ branch guard Optional pump & valve kit Reversing engine fan LED tail & marker lights F-N-R joystick Intermittent front wiper Backup camera Battery disconnect switch Articulation lock Remote battery terminal Low hyd. oil warning Cruise control Rear wiper/washer Ride Control Locking Differential WiFi Package DEMO DISCOUNT OF MQ STOCK ORDER DELIVERY AND TRAINING REAR MOUNTED HYDRAULIC SANDER 5 FOOT PLOW & KIT 51" BLOWER	

****INCLUDING THE FOLLOWING ATTACHMENTS****

=====

New TRACKLESS ZHS REAR MOUNT HYD SANDER C037140
New TRACKLESS ZAB5 5' ANGLE PLOW C037141
New TRACKLESS Z51B 51" SNOWBLOWER C037142

Subtotal: 162089.29

X

Received By

Date

VisitUsOnline
www.macqueengroup.com

T *rackless* V E H I C L E S



SERIES **MT7** – MUNICIPAL TRACTOR

FOR MAXIMUM PRODUCTIVITY, SAFETY AND COMFORT

... FROM **THE LEADER** IN THE MUNICIPAL TRACTOR FIELD

TRACKLESSVEHICLES.COM

Trackless MT7 Specifications

ENGINE		STD	OPT	BRAKING		STD	OPT
John Deere	Model 4045 TFC 03			Hydrostatic dynamic braking programmed for smooth deceleration		✓	
Emission Rating	Tier 4 Final, EU Stage IV			Hydraulic service brakes on all 4 wheels		✓	
Displacement	4.5 LT			Service brake application also activates more aggressive hydrostatic braking		✓	
HP Power Rating	74 HP, 55 KW	✓		Mechanical parking brake with warning message displayed on digital dash		✓	
Torque	224 lb-ft, 304 NM @ 1600 rpm			ELECTRICAL			
Bore x stroke	4.2 x 5.0 inch			1000 CCA group 31 battery		✓	
Turbocharged				200 amp alternator		✓	
Equipped with cold start aid and 1000 watt engine block heater		✓		Main circuit breaker protection and mini blade fuses		✓	
Icons and warning messages displayed on digital dash		✓		Battery disconnect switch		✓	
POWERTRAIN				Switch, wiring and plumbing for spray systems		✓	
Sauer Danfoss hydrostatic/electronic transmission and motor		✓		CAN wire to front plug to control engine rpm from external source such as generator/infrared		✓	
Control by electronic foot pedal programmed to control hydrostatic independently or both engine rpm and hydrostatic simultaneously		✓		7 prong trailer plug		✓	
Trackless mechanical transmission with high/low range and neutral		✓		Tow behind sander kit			✓
High range lockout to prevent operation of attachments in high range			✓	STEERING			
10:1 deep reduction planetary transmission. When coupled to mechanical transmission, 4 speed ranges instead of 2			✓	Articulated steering 35 degrees each way		✓	
Deep low is 0 – 10 feet/minute				Orbitrol hydraulic motor, hydraulic steering cylinder, tilt steering column		✓	
Dana style model 60 full float axles with new heavy duty alloy spindles and limited slip differentials. 7,000 lb capacity each		✓		Inside turning radius approximately 8-feet		✓	
Electric locking front differential			✓	Tilt steering column with hazard button, signal lever, center mounted horn		✓	
Locker will not engage when in high range			✓	High strength spherical bearings for pivot pins and steering pins		✓	
Axle extensions for side slope mowing			✓	Bearings and pins greaseable		✓	
SPEEDS				TIRES & WHEELS			
Low range	0 to 12 km/h (0 to 8 mph)			LT 245/75R x 16 - 10 ply radial winter tire on HD 16" 8-bolt rims		✓	
High range	0 to 30 km/h (0 to 19 mph)	✓		31 x 15.50 x 15 - 8 ply turf tires on HD 15" 8-bolt rims			✓
Deep low range	0 to 3m (10ft) / min		✓	Dual 10 ply loader lug tires (8) mounted on 8 rims			✓
P.T.O				Calcium fill			✓
Front PTO	1-3/8" 6 spline, 540 rpm	✓		Calcium fill in tubes			✓
Rear PTO	1-3/8" 6 spline, 540 rpm		✓	LIGHTS			
Twin disc over center clutch with electric over hydraulic actuation		✓		4 - Halogen headlights (High/Low beam)			
Reduction box 4:1		✓		1 - Halogen backup light		✓	
HYDRAULICS				2 - Rubber mounted shockproof LED tail lights			
20 gpm hydraulic gear pump driven by timing gears of engine		✓		1 - Interior dome light			
14 gpm hydraulic gear pump, only driven with PTO clutch engaged		✓		Front and rear LED signal lights and 4 way flashers		✓	
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		✓		8 LED flashing lights above roof, mounted in HVAC guard		✓	
6 (3 pair) low volume front hydraulic couplers for attachment control		✓		2 on each side for 360 degree visibility, all amber or 4 blue, 4 amber			
2 (1 pair) high volume hydraulic couplers to power attachments requiring approximately 16 gpm		✓		Second rear backup light			✓
2 (1 pair) high volume hydraulic couplers at rear of tractor		✓		Additional high mount rear tail lights			✓
Variable flow to rear hydraulics by way of rotary dial switch in cab		✓		Headlight, signal (marker) light guards			✓
Cartridge type hydraulic filter mounted at highest point in system to allow dry changes		✓		FINISH			
Thermostatically controlled bypass from oil cooler for winter start-up		✓		All steel components prepped in 5 stage phosphate wash, 2 part epoxy primer with rust inhibitor, 2 part polyurethane automotive top coat		✓	
Steel hydrostatic lines		✓		Latches, linkages, levers, battery hold down straps and bolts, support rods, striker plate, shifter gate and various small brackets zinc plated		✓	
Low hydraulic oil warning		✓		Colour highway yellow with black trim, grey/black interior		✓	
Inching switch outside cab to control lift cylinders for safe pinning of attachments		✓		Custom colours to customer specification			✓
HITCHES							
Front - Trackless quick hitch with dual lift cylinders		✓					
Rear - Category 1, 3-point hitch with anti-sway bar			✓				

Trackless MT7 Specifications

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 heater defroster	✓	
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	✓	
12 volt power point auxiliary outlet for cell phone 12 volt 2-way radio jacks	✓	
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	✓	
3-speed pantograph wiper and windshield washer	✓	
Intermittent front wiper, rear wiper and washer	✓	
Conaflex sound deadening, sound barrier floor matting	✓	
High back, fabric covered air ride seat	✓	
Left and right arm rest	✓	
Full colour digital dash including backup camera when in reverse	✓	
Slopemeter		✓
EXTERIOR FEATURES		
Steel panels, aluminum 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 license 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 shuts off if operator leaves the seat	✓	
Application of service brake foot pedal activates more aggressive hydrostatic braking in conjunction with the 4 wheel service brakes	✓	
Wire finger guard protection from engine fan blades	✓	
Reflective striping on both sides and rear of tractor	✓	
Pinch point, danger, 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
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 AND 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	3136 kg

ATTACHMENTS	REQUIRED
14' rotary mower	Turf Tires
10' rotary mower	Turf Tires
6' rotary mower	Turf Tires
14' Progressive rotary mower	Turf Tires
Front mounted aerator	Turf Tires
Stump grinder	Turf Tires
74" front mounted flail mower	Turf Tires
51" heavy duty boom flail	Dual Tires
Asphalt cold planer - Suggested Only	Deep Reduction
Concrete cold planer	Deep Reduction
Leaf loader	Duals on Rear
45 kW generator and security fencing	
Electric infrared asphalt heater	
Front mounted loader 49" or 77" bucket	
Line and stencil painter	
3, 4, 5, 6, 7 or 8' wide hydraulic driven angle sweeper	
48" pickup sweeper	
50, 60, or 72" v-plow	
5-position folding v-plow	
5, 6, 7 or 8' wide angle snow plow	
5' double trip snow plow	
51, 60, 70 or 80" twin auger snowblower	
51, 60 or 75" ribbon snowblower	
Rear salt and sand spreader with single agitator	
Rear salt and sand spreader with triple agitator	
Rear tow behind sander	Tow Kit
80 gallon (300 liters) water tank and pump system	
80 gallon (300 liters) brine spray system	
80 gallon (300 liters) 14' rear-mount spray boom	

SERIES 7



TRACKLESS VEHICLES TWIN AUGER SNOWBLOWERS



The snowblower is the go-to attachment of many municipal sidewalk programs. Our twin auger snowblowers are highly efficient, two stage, units capable of clearing heavy snow over 5 feet deep. Many municipalities utilize both our sidewalk chute and truck loading chute, or our telescopic chute. After clearing their sidewalks, they switch to truck loading windrowed snow from the street or from cul de sacs. The manoeuvrability and physical size of the MT and snowblower are less apt to create traffic congestion than larger snowblowers.

Available widths: 51"(1295mm),
60"(1524mm), 70"(1778mm) & 80"(2032mm)

General Info

Housing: 38" high with 3/8" end plates

Auger: 2 - 13" dia. spiral with ice picks

Impeller: 6" x 24" - 4 blade

Cutting edge: 6" x 3/8" hardened reversible

Shear bolts: On auger drive and main PTO

Adjustable cutting height: Using top link

SERIES 7



TRACKLESS VEHICLES ANGLE SNOWPLOWS



Available widths: 5' (1524mm),
6' (1828mm), 7' (2133mm) & 8' (2438mm)

An Angle Snowplow is the most cost-efficient snow moving attachment you can mount on your Trackless MT. Nothing beats the economical performance and durability of a straight blade. However, we take the simplicity of a straight blade and make it even better.

Our blade skins are made from 3/16" hot-rolled steel and reinforced with 3/8" thick steel ribs. The blade is angled hydraulically from inside the cab of the MT and being a full trip-type plow, tips forward to ride up and over obstructions. We add abrasion resistant skid shoes and reversible, hardened steel cutting edges which add to the longevity of the attachment.

General Info

Blade Angling: 30° left or right

Cutting Edge: 1/2" x 6" hardened steel

Skid shoes: 2 adjustable

Cylinders: 2 single acting with cushion valve

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

SERIES 7



TRACKLESS VEHICLES REAR-MOUNT SIDEWALK SPREADER



The Rear-Mount Sidewalk Spreader was specifically engineered for sidewalk applications. By dispensing a 41-inch spread width, it is designed to avoid the waste and turf damage often associated with broadcast type spreaders. The delivery roller further conserves material by spreading it evenly in a diamond pattern rather than a solid layer. Making efficient use of the spread material will allow you to go farther, prolonging the need to return for a refill saving material, labour and fuel costs.

A switch allows the operator to select run or auto run. In auto run mode the sander automatically stops spreading whenever the tractor stops or is shifted into reverse. Without this feature an operator can go through material three times as fast. Run mode allows the sander to run constantly.

General Info

Spread width: 41" (1041mm)

Capacity: ½ cubic yard

Spread distance: 3 to 8 miles (4 to 12km)

Agitators: 1

Safety: Galvanized safety screen

Screw jacks for removal: 3