



Quotation for City of Sparks

Date: September 6, 2017

Quote No:606084-00

Prepared For:	Terry Shackelford	Quote No:	606084-00
	City of Sparks	iQuote No:	2230115
	225 South 21st Street	Sales Person:	Don Kittilsen
	Sparks, NV 89432-0857		don.kittilsen@turfstar.com
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Nevada NASPO Contract Pricing; Contract No: 3114, Pricing is based on number of Traction Units purchased on a single order.

Summary

Configuration Name	Qty	Unit Price	Sub Total	Sales Tax	Total
010-GM360 4WD w/o Deck Tier 4 Final	1	\$44,723.77	\$44,723.77	\$0.00	\$44,723.77
Totals:			\$44,723.77	\$0.00	\$44,723.77



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Configuration Product Details 010-GM360 4WD w/o Deck Tier 4 Final

Model	Product Description	Qty	Unit Price	Extended	Sales Tax	Total
31200	GM360 4WD w/o Deck Tier 4 Final	1	\$29,687.20	\$29,687.20	\$0.00	\$29,687.20
30353	72in Base Deck GM7200/360	1	\$2,671.20	\$2,671.20	\$0.00	\$2,671.20
30549	72" Rear Discharge Completion Kit-GM360	1	\$439.20	\$439.20	\$0.00	\$439.20
30511	Grammer Seat w/Air Ride Suspension	1	\$1,119.20	\$1,119.20	\$0.00	\$1,119.20
131-6691	SEAT COVER, LARGE	1	\$33.73	\$33.73	\$0.00	\$33.73
30579	GM360 Front Deck Lift	1	\$303.20	\$303.20	\$0.00	\$303.20
30509	Front Frame, QAS-4WD GM360	1	\$3,647.20	\$3,647.20	\$0.00	\$3,647.20
115-0019	ELECTRICAL ACCESSORY KIT - GM360	1	\$967.54	\$967.54	\$0.00	\$967.54
30052	MVP FILTER KIT-GM72000D (2008-)	1	\$80.30	\$80.30	\$0.00	\$80.30
AMA-00323	5FT Poly-Wire Broom	1	\$5,400.00	\$5,400.00	\$0.00	\$5,400.00
INBFRT	Inbound Freight Fee	1	\$375.00	\$375.00	\$0.00	\$375.00
Totals:						\$44,723.77



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Standard Terms and Conditions

Prices, including all finance options, are valid for 30 days from date of quotation. Open Account Terms are N30, subject to credit approval. Used and demo equipment is in high demand and availability is subject to change. Delivery is FOB Destination, unless otherwise stated

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TORO®

Groundsmaster® 360 Quad-Steer™

4WD SMALL AREA ROTARY MOWER

F E A T U R E S

- Quad-Steer™ True all-wheel steering
- Tier 4 compliant Yanmar® 37 hp, 4-cylinder, liquid-cooled diesel engine
- 72" width of cut in either side discharge, rear discharge, or Guardian® Recycler® configuration
- New – 100" width of cut rear discharge deck for non-cab models
- CrossTrax® 4WD system standard
- All-season factory-installed safety cabs with AC/heating
- Improved operator comfort with isolated seat platform
- Multi-seasonal versatility for snow and leaves with the front Quick Attach System (QAS)

**4
TIER**

Seriously advancing the way you cut grass.

The new Tier 4 compliant Toro Groundsmaster 360 reinvents the way a mower performs. Powered by a 37 hp (27.6 kW) Yanmar® 4-cylinder diesel engine, this machine utilizes revolutionary Quad-Steer™ all wheel steering to maximize productivity. Climb hills without slipping. Make 180° turns without tearing turf. Hug the turns or side hills while mowing in total comfort. Save time without sacrificing quality. Intuitive controls and unparalleled maneuverability turn work into play. But this is no toy. It's a performer in every sense of the word. A higher quality of cut, speed and efficiency, lasting dependability. Surprisingly, the world's most exhilarating mower is also the most efficient. The Groundsmaster 360 is the science and the art of mowing, a sensory experience you simply have to feel for yourself.

toro.com/360





Groundsmaster® 360 4WD Specifications*



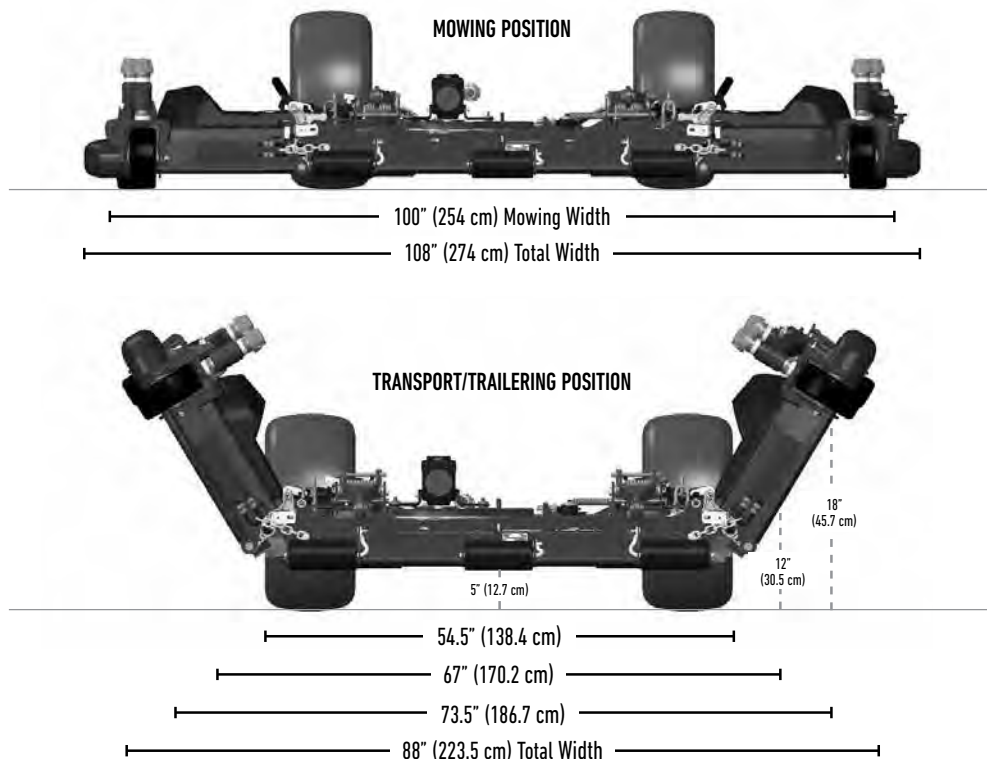
	GROUNDMASTER 360 – 4WD TIER 4 FINAL DIESEL, MODEL 31200(A)	GROUNDMASTER 360 – CAB TIER 4 FINAL DIESEL, MODEL 31202
ENGINE	Yanmar; 3-cylinder common-rail, liquid-cooled, diesel with EGR and diesel particulate filter (DPF), 36.8 hp (27.5 Kw) rated @ 3000 rpm, 80 ft-lbs @ 1950 rpm, High idle 3000 rpm, Low idle 1400 rpm, displacement 1642 cc. Remote mounted Donaldson air filter, external spin-on oil filter and high flow fixed fan. EPA Tier IV Final Compliant.	
FUEL CAPACITY	13.5 gallons (51.1 liters) diesel. Biodiesel Ready for use up to B-20 (20% biodiesel and 80% diesel blend).	
TRACTION DRIVE	Independent high-torque, low-speed wheel motors with 280 cc displacement. CrossTrax® drive system utilizing series parallel hydraulic drive circuit with full time forward and reverse 4WD. Patent pending.	
TIRES	Front & Rear: (All 4 tires and wheels are the same part number) 23/10.5x12 6 ply pneumatic tubeless, demountable and interchangeable. Tread Kenda K500 TL similar to "Toro Tuff Trac".	
AIR CLEANER	Dry, replaceable primary element.	
INSTRUMENTATION	InfoCenter™: Onboard LCD display shows gauges, alerts/faults, service reminders, and electrical system diagnostics. Indicates coolant temp, intake temperature, low oil pressure, alternator, engine hours, engine rpm, hydraulic oil temperature, voltage	
CONTROLS	Ignition switch, throttle switch, foot-operated traction pedal with mowing speed control stop, service brake with parking brake latch, switch for raising and lowering cutting unit.	
GROUND SPEED	Transport and Mow: Forward 0-12 mph (0-19.3 km/h), variable. Reverse 0-6 mph (0-9.7 km/h), variable.	
RADIATOR	Rear mount, cross flow, 6.5 fins per 1" (25 mm), 8 quart (7.6 liter) capacity	
MAIN FRAME	Rectangular structured steel tube and high strength steel plate welded construction.	
BRAKES	Service Brake: Foot pedal with dynamic braking through hydrostatic transmission. Parking Brake: foot actuated brake lever with two 8" (20.3 cm) diameter drum brakes mounted on the rear wheel motors.	
STEERING	Quad Steer™ all wheel steer with four wheel Ackermann steering. Two turns Lock to Lock controlled via steering wheel and automatic synchronizing hydraulic cylinders. 4WD models have rear wheel steer lock out position, providing front two wheel steering (2WS).	
ELECTRICAL	12-volt, 55 amp internal regulated alternator/generator charging @ 3150 rpm. Battery: BCI Group No. 26, 540 cold cranking amps @ 0° F (-17.78° C).	
INTERLOCKS	Prevents engine from starting unless traction pedal is in neutral and deck is disengaged. If operator leaves seat with deck engaged, engine stops. If operator leaves the seat with the unit out of neutral, engine stops. Engine stops if parking brake engaged and traction pedal not in neutral. High temp (PTO shuts down but engine remains running), Over temp (engine shuts down).	
SEAT	High back cushion vinyl seat with drain hole, deluxe low profile mechanical suspension, 4" (10 cm) fore-aft travel with an additional 44 mm (1.75") foreword adjustment, armrests standard, retractable seat belt, lateral shock absorption.	Grammer low profile air ride suspension, cloth cushions, retractable seat belt, lateral shock absorption.
OPERATOR AREA	Operator platform with isolated operator seat (all models), 12-volt power outlet, cup holder.	
HYDRAULICS/COOLING	3 gallon (11.4 liter) capacity, suction spin-on filter mounted to transmission, oil cooler 6.5" x 17" x 3.5" (16.5 cm x 43.2 cm x 8.9 cm). Bar and Plate Core; 6.5 serpentine fins per 1" (25 mm).	
PTO CLUTCH	Hydraulically actuated wet multi disc clutch.	
ROLL-OVER PROTECTION	2 post Standard foldable ROPS certified per ISO/DIS 21299.2 specifications	Safety cab is ROPS certified
ALL-SEASON SAFETY CAB	Factory installed, ROPS certified, pressurized cab with AC and heat. Tempered curved windshield, opening side window, opening rear window, emergency exit: front, rear or side window, tinted side and rear glass (50% tint); front wiper/washer; interior mirror and exterior side mirrors; SMV sign; interior dome light. Model 31202 only. Road light kit and work light kit sold separately. All glass windows meets ANSI Z-26.1999 and ECE R43	
FUEL ECONOMY	1.1 gallons/hr (4.8 litres/h)**	
SAFETY	Complies with American National Standards Institute (ANSI B71.4-2004)	
CERTIFICATION	Certified to meet SAE J2258. Certified to meet ISO/DIS 21299 for ROPS. Engine meets all applicable emission standards per the manufacturer. Certified to meet C-Tick 2004/108/EC(EMC). Certified to meet the ISO EN5395 Machinery Directive requirement.	
WARRANTY	Two year limited	
	DIMENSIONS & WEIGHT WITH CUTTING DECKS (Cutting Decks Sold Separately)	
HEIGHT ROPS UP	78" (198 cm)	86" (218 cm) (Cab height)
OVERALL LENGTH	110" (279 cm) / 117" (297 cm) with front Quick Attach System™ (QAS) only	
OVERALL WIDTH	78" (198 cm) [72" (183 cm) base deck] / 75" (191 cm) [72" (183 cm) side discharge deck] / 55" (140 cm) wheel to wheel	
WHEELBASE	57" (145 cm)	
EST. SHIPPING WEIGHT	2,658 lbs. (1206 kg)	3,134 lbs. (1422 kg)

* Specifications and design subject to change without notice. Products depicted in this literature are for demonstration purposes only. Actual products offered for sale may vary in use, design, required attachments and safety features. See distributor for details on all warranties.

**Dependent on operator and turf conditions. Assume 85% efficiency for turns and overlap; 8 mph (12.9 km/hr) mow speed.



	100" CUTTING DECK, MODEL 31101
WIDTH OF CUT	100" (254 cm), by five blades
HEIGHT OF CUT	1"-5" (25 - 127 mm) adjustable in 0.25" (6 mm) increments
DECK CONSTRUCTION	Center deck with two wing decks; Welded .120" (11 gauge) high strength steel with steel .180" (7 gauge) stiffener plates and .1046" (12 gauge) chambers.
DISCHARGE	Rear Discharge – complete width of deck.
WING DECK ARTICULATION	15 degrees, up or down.
SPINDLE ASSEMBLY	Ductile cast iron 9" (23 cm) diameter conical spindle housing; Dual greaseable tapered roller bearings; Spindle shaft is 1.25" (3.2 cm) diameter, solid cold finished steel, and splined connection between spindle shaft and pulley; Welded blade retainer plus anti-scalp cups.
CUTTER DRIVE	Isolation mounted, PTO driven gearbox with 1.25:1 spiral bevel gears. "B" section belt drive to all spindles.
BLADES	Wing Decks: 25.2" (64 cm) long, .25" (6 mm) thick, 2.5 (63 mm) wide, heat treated steel blade in each wing; Center Deck: Three 18" (45.7 cm) long, .25" (6 mm) thick, 2.5" (63 mm) wide, heat treated steel blades.
BLADE TIP SPEED	16,000 ± 1,000 ft/min at 3250 engine rpm
DECK SUSPENSION	Center deck is supported via 4 vertically suspended chains to the frame of the machine. Wing decks are supported by pin connections to center deck and castor wheels on the ground. Hydraulic deck lift includes load holding check valves and gravity lower.
CASTOR WHEELS	Four 8 x 3.50-4, 4-ply, smooth, pneumatic, sealed precision ball bearings. Tensioning caps, made from impact modified thermoplastic alloy, are used to hold the castor wheels on the castor arms.
BELT IDLER	Fixed and spring loaded idlers.
DECK SKID	Replaceable, bolt-on, non-marking UHMW skid on both sides.
DECK ANTI-SCALP ROLLERS	5
ANTI-SCALP CUPS	Anti-scalp cup located on each blade spindle.
DECK COVERS	Steel and plastic with rubber latch connectors.
CUTTING DECK DEPTH	4.25" (108 mm)
WING DECK TRANSPORT LOCKS	Manual latches (standard)
WEIGHT	Approximately 790 lbs (358 kg)
WIDTH	Mow: 108" (274 cm) Transport: Overall width with wing decks raised: 88 in (223.5 cm); center deck is 54.5 in (138.4 cm) wide and 5" (12.7 cm) off ground when raised.
OPTIONAL ACCESSORIES	Leaf Mulching Kit (Model 31105)
CERTIFICATION	American National Standard ANSI B71.4-2012. European standard per ISO EN 5395 , CE approved.
MOWING RATE	Mow up to 8.0 acres/hr (3.2 hectare/hr) at 8 mph (12.9 km/hr). Assumes no overlap and 100% efficiency.





Groundsmaster® 360 4WD Specifications / Attachments



	GROUNDMASTER 360 – 4WD TIER 4 FINAL DIESEL, MODEL 31200(A)	GROUNDMASTER 360 – CAB TIER 4 FINAL DIESEL, MODEL 31202
AIR RIDE GRAMMER SEAT	Air ride suspension and vinyl cushions. Model 30511.	Standard
SPEED REDUCTION KIT	Model 30287 (F15 and newer models)	
ROTATING BEACON KIT	Part No. 120-0256	31509
BIMINI CANVAS SHADE	Model 30358	N/A
UNIVERSAL SUNSHADE	Model 30349 (White), 30552 (Red)	N/A
FRONT QUICK ATTACH SYSTEM (QAS)	Front Quick Attach System (QAS) with quick connects to PTO coupler and front attachment's hydraulic connections. Model 30509. Electrical accessory kit (PN 115-0019) or Joystick/ Electrical Accessory Kit (31219) required.	
V-PLOW	48" (122 cm) wide V-Plow. Model 30750. (V-Plow Mounting Kit 30378 required)	
ROTARY BROOM	Rotary Broom (Supplied by M-B Companies, Model MCT)	
SNOWTHROWER	Must control with Joystick/Electrical Accessory Kit (31219). (Supplied by Erskine Attachments)	
STRAIGHT BLADE	Straight Blade (Supplied by M-B Companies)	
POWERED V-PLOW	Snow implement combines two useful attachments; V-Plow and Angled Blade Must control with Joystick/ Electrical Accessory Kit (31219). (Supplied by M-B Companies)	
NORTH AMERICAN ROAD LIGHT KIT	Model 30513; Includes headlights, red/amber flashers, turn signals and one rear work light.	Model 30701, Includes headlights, red/amber flashers and turn signals
SMV SIGN KIT	Part No. 115-0014	Included with cab
WORK LIGHT KIT	N/A	Part No. 114-5610
PRE-FILTER SCREEN KIT	N/A	Part No. 30647
WINTER ENCLOSURE	Removable weather-tight enclosure for existing ROPS structure. Heater, wiper, windshield washer and light package. Model 31220. (Overall height of unit with enclosure is 86")	N/A
AERA-VATOR®	The AERA-Vator's vibrating tines deliver results without the extra work of traditional aerification and the fractured soil creates the ideal seedbed, making this a multifunctional machine that can be used in many applications. Model GM82001. Requires one of the following shafts: Aera-vator (UA82015), Multi-Tine (UA82049), Slicer (UA82017) or Coring (UA82058).	

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Groundsmaster® 360 4WD Specifications / Attachments



CUTTING DECKS (Sold Separately)					
CONFIGURATIONS	72" DECK W/ GUARDIAN® KIT OR FINE CUT GUARDIAN® KIT	72" SIDE DISCHARGE	72" DECK W/ REAR DISCHARGE KIT	60" SIDE DISCHARGE	62" DECK W/ GUARDIAN® RECYCLER KIT
DECK MODEL #	30353	30481	30353	30456	30457
COMPLETION KIT (REQUIRED) (BLADES AND BAFFLES)	30304 or 30346	NA	30549	NA	30306
WIDTH OF CUT	72" (182.8 cm)	72" (182.8 cm)	72" (182.8 cm)	60" (152.4 cm)	62" (158 cm)
BLADE TIP SPEED (@3250 ENGINE RPM)	16,000±1,000 ft./min.	18,000±1,000 ft./min.	16,000±1,000 ft./min.	18,000±1,000 ft./min.	16,000±1,000 ft./min.
5/16" THICK RUBBER DISCHARGE CHUTE	NA	Yes	Yes	Yes	NA
CUTTING DECK DEPTH	4.25" (10.8 cm)	5.5" (13.9 cm)	4.25" (10.8 cm)	5.5" (13.9 cm)	4.25" (10.8 cm)
DECK ANTI-SCALP ROLLERS	4	5	4	5	4
BUMPER SKIDS	2	1	2	1	2
LEAF MULCHING KIT	NA	PN 108-5273	NA	NA	NA
STRIPING KIT	NA	NA	NA	NA	NA
RECYCLER KIT	NA	30347	NA	30348	NA
TALL GRASS BAFFLE KIT	PN 105-7269	NA	PN 105-7269	NA	PN 105-7269
MEDIUM FLOW BLADE	NA	PN 110-0621-03	NA	PN 110-4701	NA
HIGH FLOW BLADE	NA	PN 110-0622-03	NA	PN 110-4702-03	NA
ATOMIC MULCHING BLADE	NA	PN 110-0622-03	NA	PN 110-4703-03	NA
FLAT BLADE	NA	NA	PN 112-9586	NA	NA
STANDARD BLADE	PN 108-1958	NA	PN 108-1958	NA	PN 92-5608-03
BLADE AND BELT KIT	PN 105-7271	PN 105-7272	PN 105-7271	NA	PN 105-7270
MOWING RATE (ACRES/HR)**	5.8	5.8	5.8	4.8	4.9
EST. SHIPPING WEIGHT	472 lb. (214 kg.)	600 lb. (272 kg.)	472 lb. (214 kg.)	525 lb. (238 kg.)	424 lb. (192 kg.)
HEIGHT OF CUT	1"-6" (25 - 152 mm) adjustable in 0.25" (6 mm) increments.				
60" & 72" SIDE DISCHARGE DECK CONSTRUCTION	7-gauge (4.5 mm) 5.5" steel (14 cm) deep; welded deck with grass discharged on the right side. A 5/16" (8 mm) thick rubber discharge chute covers the discharge opening to limit the throw distance of clippings.				
62" & 72" BASE DECK CONSTRUCTION	7-gauge (4.5 mm) 4.25" steel (11 cm) deep; welded deck. Requires Guardian® Recycler® or rear discharge (72" base deck only) completion kit.				
FINE CUT GUARDIAN® RECYCLER COMPLETION KIT	Three deflectors inside the chamber redirect clippings that are elevated in the chambers so that they are cut and re-cut. Deck chambers prevent throwing of objects out from deck.				
SPINDLE ASSEMBLY	Ductile cast iron 9" (23 cm) diameter conical spindle housing; Dual greaseable tapered roller bearings; Spindle shaft is 1.25" (3.2 cm) diameter, solid cold finished steel, splined connection between spindle shaft and pulley; Welded blade retainer plus anti-scalp cups.				
CUTTER DRIVE	Isolation mounted, splined PTO-driven gearbox transfers power to three separate spindles via two separate "B" section belts.				
BLADES	Three 0.25" (6 mm) thick, 2.5" (63 mm) wide, heat-treated steel blades.				
DECK SUSPENSION	Frame which supports deck via 4 vertically suspended chains. Front drag links provide fore/aft and left/right stability. Hydraulic deck lift includes load holding check valves and gravity lower. Weight transfer system consisting of two torsion springs counterbalances some cutting deck weight to reduce turf damage.				
BELT IDLER	Spring loaded (torsion) idler.				
DECK SKID	Replaceable, bolt-on, non-marking UHMW skid on both sides for Base decks and on left side on side discharge decks. Interchangeable left to right on base decks.				
ANTI-SCALP CUPS	Anti-scalp cup located on each blade spindle.				

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**Assumes 8 mph mow speed, no overlap and 100% efficiency.





SNOWTHROWER, ERSKINE MODEL 1600**	
STAGE	2
WIDTH OF CUT	53" (135 cm)
CUTTING HEIGHT	22" (56 cm)
CUTTING EDGE	51" (130 cm) bolt-on
SKID SHOES	Adjustable/Hardened
AUGER DIAMETER	12" (30 cm) open flight
FAN DIAMETER	16" (41 cm)
CHUTE ROTATION	Hydraulic
SHEAR PROTECTION	Pressure relief
CASTING DISTANCE	Up to 25' (7.62 m)
APPROXIMATE SHIPPING WEIGHT	418 lbs. (190 kg)
HOSES	Included



PRO FORCE® DEBRIS BLOWER, MODEL 44547	
TRACTION UNIT	Works with Groundsmaster 360 4WD models only
TYPE	Turbine debris blower. PTO Shaft-driven off the engine.
QAS MOUNT	Front Quick Attach System (QAS) 30509, required.
NOZZLE ROTATION	245 degrees
OPERATION HEIGHT	Adjustable, 4.5" to 8.5" off the ground.



ROTARY BROOM, M-B MODEL MCT***	
TYPE	MECHANICAL Windrow type, front mounted mechanical drive broom. Hydraulic angling, 30 degrees left and right.
SWING	Swing pivot point inline with 50 degree CV joint
BROOM SIZE	25" (63.5 cm) diameter brush, 60" (152 cm) width.
BRUSH	Sectional brush with choice of polypropylene, wire or combination radial segments.
SHIPPING WEIGHT	60" Broom: 500 lbs., (227 kg).
OPTIONS	Hydraulic Swing Cylinder, Electric Swing Mechanism, Dirt Deflector, Storage Stands.

V-PLOW, MODEL 30750	
CUTTING WIDTH	48" (121.9 cm)
HITCH/MOUNT	V-Plow Mounting Kit 30757 required for installation.
CONSTRUCTION	All welded steel.

STRAIGHT BLADE, M-B MODEL DOZER BLADE***	
BLADE	Heavy-duty 10-gauge formed plate 60" (152.4 cm)
CUTTING EDGE	3/8"x 4"x 60" (.95 cm x 10.2 cm x 152.4 cm) high carbon steel bar; reversible
ANGLING	0-30 degrees infinitely left & right hydraulically operated
WIDTH	60" (152.4 cm)

POWERED V-PLOW, M-B MODEL V-PLOW**	
CONFIGURATION	This implement combines two useful snow attachments, V-plow and angled blade, into one.
ANGLING	0-30 degrees, left and right, hydraulically
BLADE WIDTHS	Straight – 57.5" (146 cm) "V" – 50" (127 cm) Scoop – 48.25" (123 cm) Angled – 61" (155 cm)
BLADE HEIGHT	23" (58 cm)
CUTTING EDGE	Bolt-on, trip edge
SKID SHOES	Adjustable, cast-hardened

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**Manufactured by Erskine. Attachment model ES1600. The Toro Company does not manufacture or sell the snowthrower, nor does Toro guarantee these accessories in any manner whatsoever.

***Manufactured by M-B Companies, Inc.



Groundsmaster® 360 4WD Attachments Specifications*



	Aera-vator Universal Shaft System Frame**
WEIGHT (FRAME ONLY)¹	900 lbs (408 kg)
WORKING WIDTH	60" (152.4 cm)
CENTER DRIVE GEARBOX	1:1 Right Angle
END DRIVE	4 "BX" 46 Belts (Each End)
TINE VIBRATION FREQUENCY	@540 PTO RPM = 800 Cycles/Min
HEAVY DUTY LIFT/TRAIL HITCH	3 ft (91.4 cm) Turn Radius (approx.)
DRIVE LINE	1.375" (3.5 cm) Spline w/Safety Shield
FINISH	Black Polyurethane w/Red Trim

* Add appropriate shaft weight (selected) to AERA-vator weight



AERA-VATOR SHAFTS	Aera-vator Shaft	Coring Shaft	Multi-Tine Shaft	Aera-Slicer Shaft
SHAFT ACCESSORY USE	Vibrating tines loosen dry soil by fracturing - no holes, no plugs, no pre-irrigation	Non-PTO, powered by 3-point tow, .75" (1.9 cm) cores	Less aggressive vibrating tines, great for overseeding without surface disruption	Compaction relief with minimal surface disruption during hot summer months
WIDTH	60" (152.4 cm)			
SHAFT WEIGHT¹	236 lbs (107 kg)	145 lbs (65.8 kg)	245 lbs (111 kg)	155 lbs (70.3 kg)
SIDE-TO-SIDE TINE TRAVEL	1.375" (3.5 cm)	N/A	.5" (1.27 cm)	.625" (1.6 cm) vibration blade travel (vertical)
CORING DEPTH	N/A	Up to 4.5" (11.4 cm)	N/A	N/A
VIBRATING DEPTH	3.75" (9.5 cm)	N/A	Up to 2" (5 cm) deep	4.5" (11.4 cm) full depth
AERATION DENSITY (APPROX)	9 Holes per sq ft (.093 sq. m)	5-6 Holes per sq. ft (.093 sq. m)	55 Holes per sq ft (.093 sq. m)	6-7 Slits per sq ft (.093 sq. m)

* Add appropriate shaft weight (selected) to AERA-vator weight



	Utility Flail Mower, Vrisimo MiniMax, Model FM60***
CUTTING WIDTH	60" (152.4 cm)
OVERALL WIDTH (APPROX.)	66.5" (167 cm)
NUMBER SCOOP HAMMERS	30
REAR HEIGHT ADJUSTMENT	0 - 4" (0 - 10.2 cm)
WEIGHT	480 lbs. (218 kg)

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**Manufactured by First Products. Aeravator Shaft System Frame and Shaft Accessories. The Toro Company does not manufacture or sell this product, nor does Toro guarantee these accessories in any manner whatsoever.

***Manufactured by Vrisimo. Attachment model 60MM. The Toro Company does not manufacture or sell the flail, nor does Toro guarantee these accessories in any manner whatsoever.

**** Manufactured by BOSS®. Attachment model TGS 300. The Toro Company does not manufacture or sell the spreader, nor does Toro guarantee these accessories in any manner whatsoever.

	BOSS® Salt Spreader, Model TGS 300****
HOPPER CAPACITY	3 cu ft/200 lbs (.08 cu m/91 kg)
HOPPER DIMENSIONS	217/8"H X 29"W X 15"D (53 cm x 74 cm x 38 cm)
SPREADER WEIGHT	70 lb (31 kg) plus mount
FEED MECHANISM¹	Internal auger w/material saving brush and adjustable drop-feed gate
VIBRATOR KIT	Not recommended
MOTOR	High-torque/12-volt DC
SPINNER	12" (31 cm) poly
SPREAD WIDTH	4-30 feet (1-9 meters)
MATERIAL DEFLECTOR	Adjustable poly deflector
RECEIVER HITCH	See Toro Distributor for details on mounting.
CONTROL	Variable speed control with blast feature and overload protection

* Designed to spread dry, free-flowing material (i.e., salt, deicers, etc.).





High Lift Collection System, Models 30866, 30869	
HOPPER CAPACITY	1.3 cubic yards (1000 liters)
LIFTING HEIGHT	7.4 feet (2.3 m)
OVERHANG AT FULL LIFTING HEIGHT	0.8 feet (24 cm)
WEIGHT	1,118 lbs (507 kg)
PARKING STAND (OPTIONAL)	System easily removed in less than 5 minutes using stand



Triple Bagger Collection System, Model 31211	
HOPPER CAPACITY	13.6 cubic feet (385 liters)
OVERALL WIDTH	60.75" (154.3 cm)
ASSEMBLY HEIGHT	40" (101.6 cm)
ASSEMBLY DEPTH	26.75" (67.9 cm)
BLOWER KIT	72" (183 cm) deck side discharge blower kit (required) Model 31212



TWO-POST ROPS EXTENSION SYSTEM	
GM360 MODELS	Fits Models 31200, 31223 or 31230
TWO-POST ROPS EXTENSION KIT	Base steel frame attached to existing ROPS and includes a white sunshade. Model 31350
EXTERIOR MIRROR	Quantity (1) Part Number 130-5448
INTERIOR MIRROR	Quantity (1) Part Number 130-5449
ABRASION-RESISTANT POLYCARBONATE WIND SCREEN	Improved resistance to golf ball impacts or vandalism. Model 31321
TEMPERED GLASS WINDSHIELD	Similar safety glass used in Toro all-season safety cabs. Model 31322
WINDSHIELD WIPER KIT FOR TEMPERED GLASS WINDSHIELD	For use with the tempered glass windshield only. Not for use with the polycarbonate wind screen. Model 31311
OPERATOR FAN & INTERIOR HEADLINER KIT	Overhead fan with adjustable speeds – mounts directly over operator. Part Number 132-3435
WIRE HARNESS KIT	Required for all electrical accessories such as wipers, lights and fan. Part Number 122-0729

*Specifications and design subject to change without notice. Products depicted in this literature are for demonstration purposes only. Actual products offered for sale may vary in use, design, required attachments and safety features. See distributor for details on all warranties.