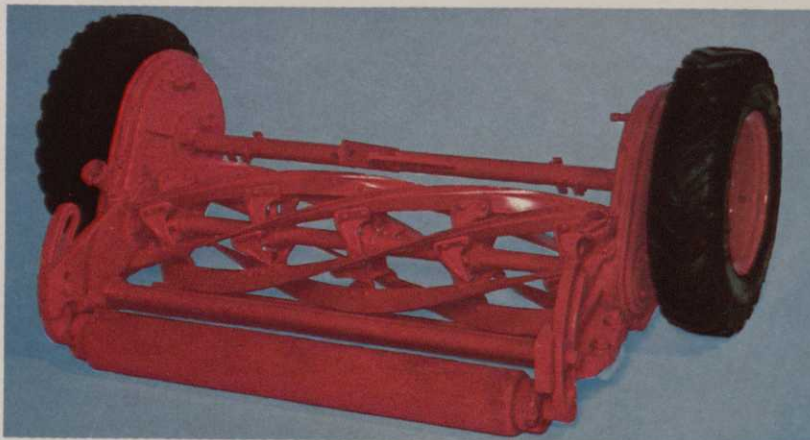
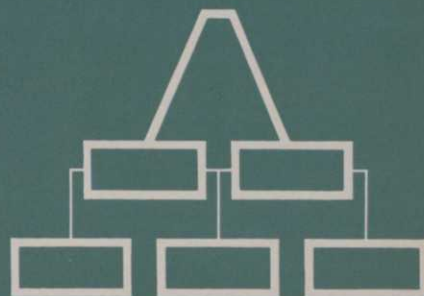


# SPARTAN GANG MOWER



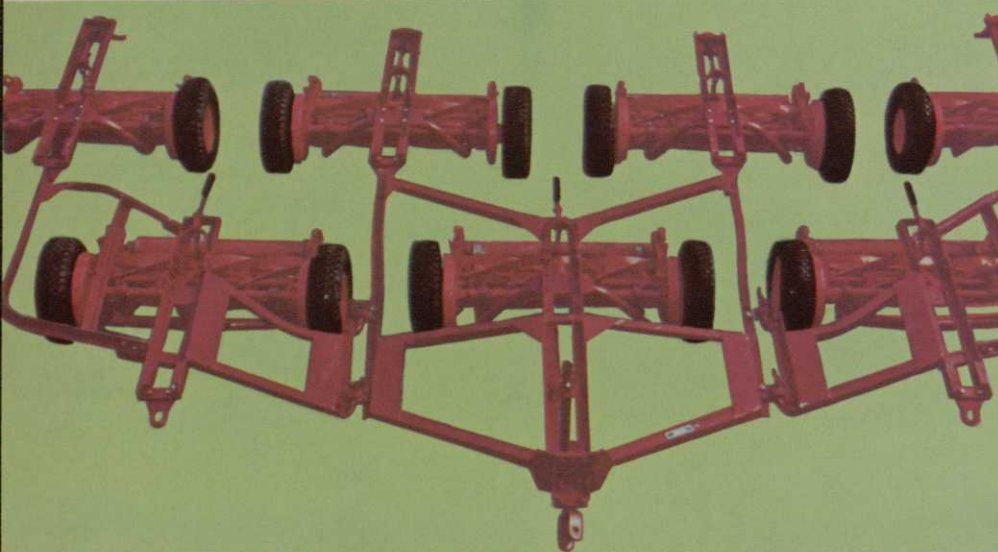
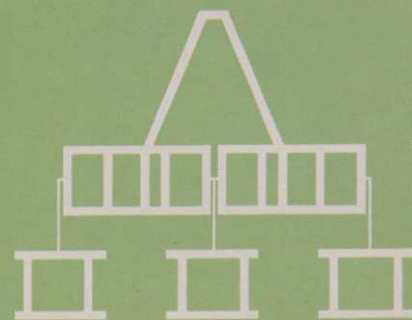
For all day, every day cutting of grasses of average heights, you'll like Toro's 6 blade, 30" **Spartan** Gang Mower. Smooth mowing, yet rugged, it's designed for semi-formal turf. Cutting heights range from 1" to 2". Frequency of clip is 1.1" with 16" wheels. If equipped with 14" wheels the clip is .975", resulting in a slightly smoother appearance. The **Spartan** gang mower is recommended for fairways, park boulevards, picnic grounds, cemeteries, athletic fields and other institutional grounds.

- Frame applications include universal, 3 unit industrial and 3 point hitch frame.
- Throw out clutch allows free wheeling for transport.
- Chassis is formed from heavy ribbed cast iron side plates and tubular cross members.
- Steel, pneumatic and semi-pneumatic wheels available.





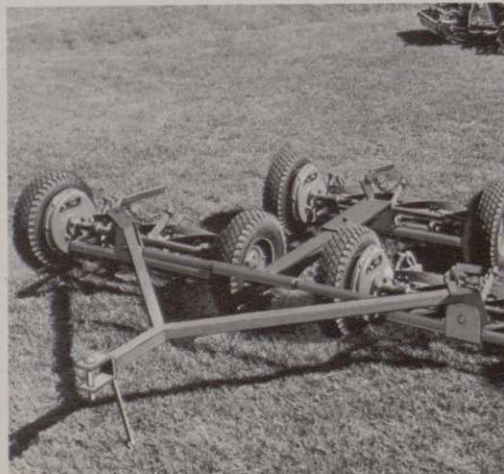
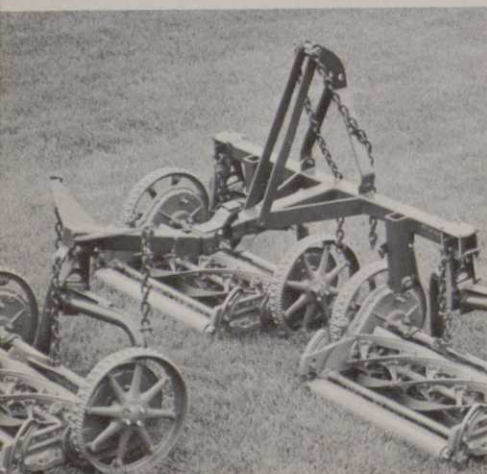
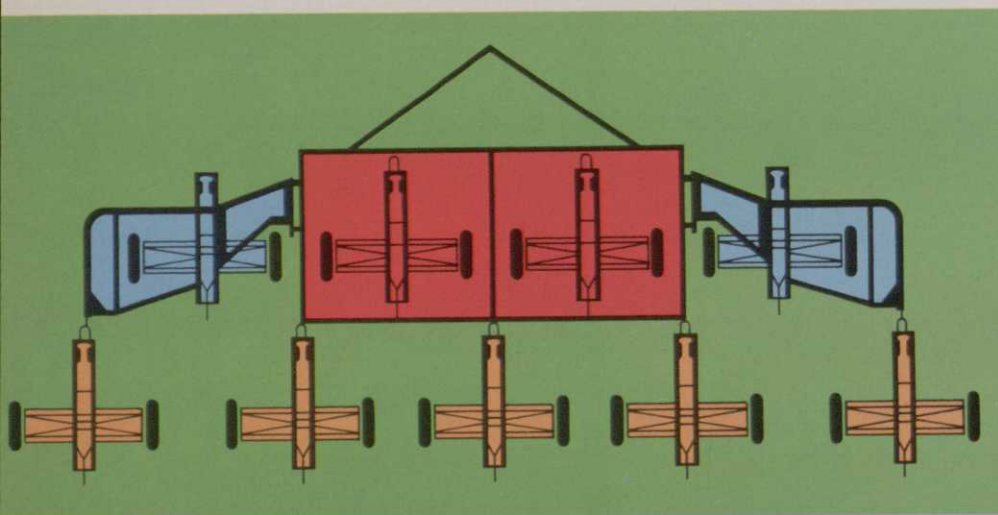
# SPARTAN FRAMES



Toro offers you three **Spartan** frames to match your mowing needs. Toro Universal Frame connects to any standard tractor. It's available in 3, 5, 7 and 9 gang units. Mows fast without bouncing. Yields to ground undulations.

Three Unit Industrial Frame is designed for sites where expansion is not planned. This non-convertible frame is economically priced.

Three Point Hitch Frame fits any S.A.E. Category 1, 3 point hitch tractor.







# ROUGHMASTER

## GANG MOWERS

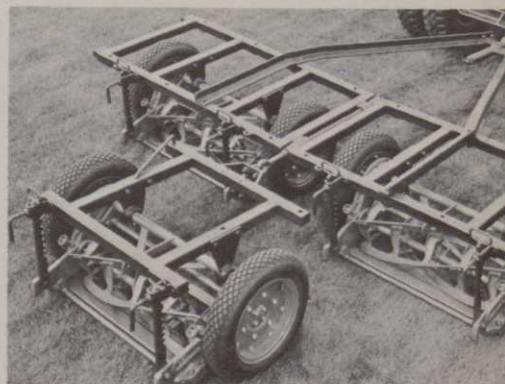
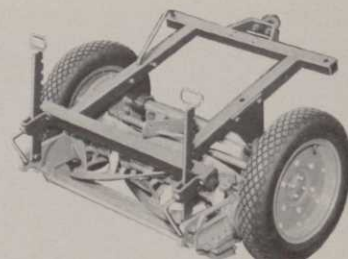
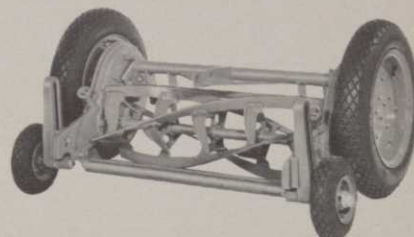
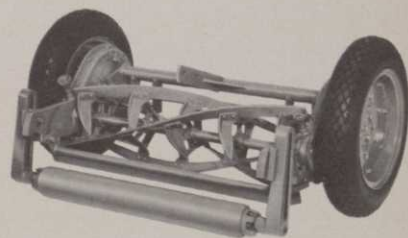
Toro has a **Roughmaster** Gang Mower to meet your limited care turf needs.

The **Roughmaster** with rear roller is designed for golf course roughs and other semi-formal turf areas. Cuts are smooth and even because the roller allows the unit to closely follow ground contours. Four reel blades are thick, hard and won't exceed diameter when struck by hard objects. All **Roughmaster** mowers share this durability. Cutting height is from 1 1/4" to 3 1/2".

For your hard to maintain areas with rocks and other blade damaging objects, you'll like the **Roughmaster** with rear gauge wheels. It's ideal for control mowing in limited care turf areas. Rugged, sturdy and dependable, it cuts from 1 3/4" to 4 1/2" high. Like other Roughmasters, it has a 2.1" clip, 30" cutting width and 10" diameter reel.

If you're looking for minimum maintenance costs in wide open turf areas, the **Roughmaster** without roller or gauge wheels is for you. A favorite at airports, it uses special height of cut brackets with a range of 2"-5". Permits fast speeds. You can mow 28 acres an hour with 11 **Roughmaster** units working at 10 m.p.h.

Toro **Roughmaster** Gang Mowers are designed to be used with Toro's **Roughmaster** and Aero Frames.



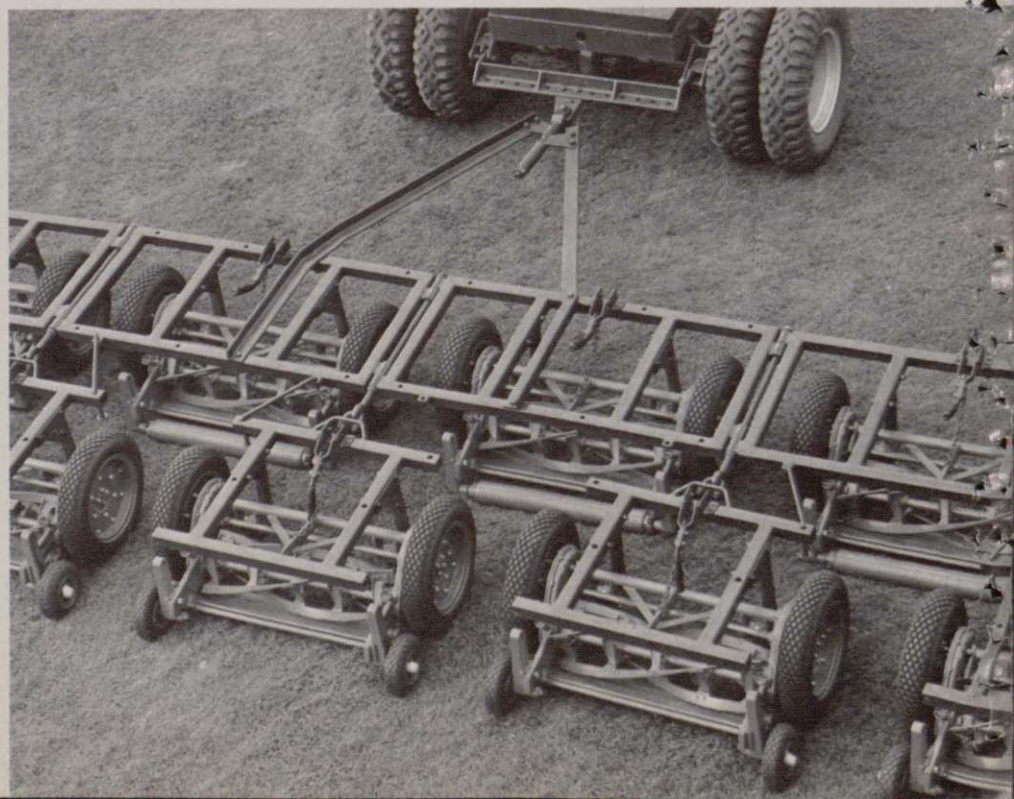
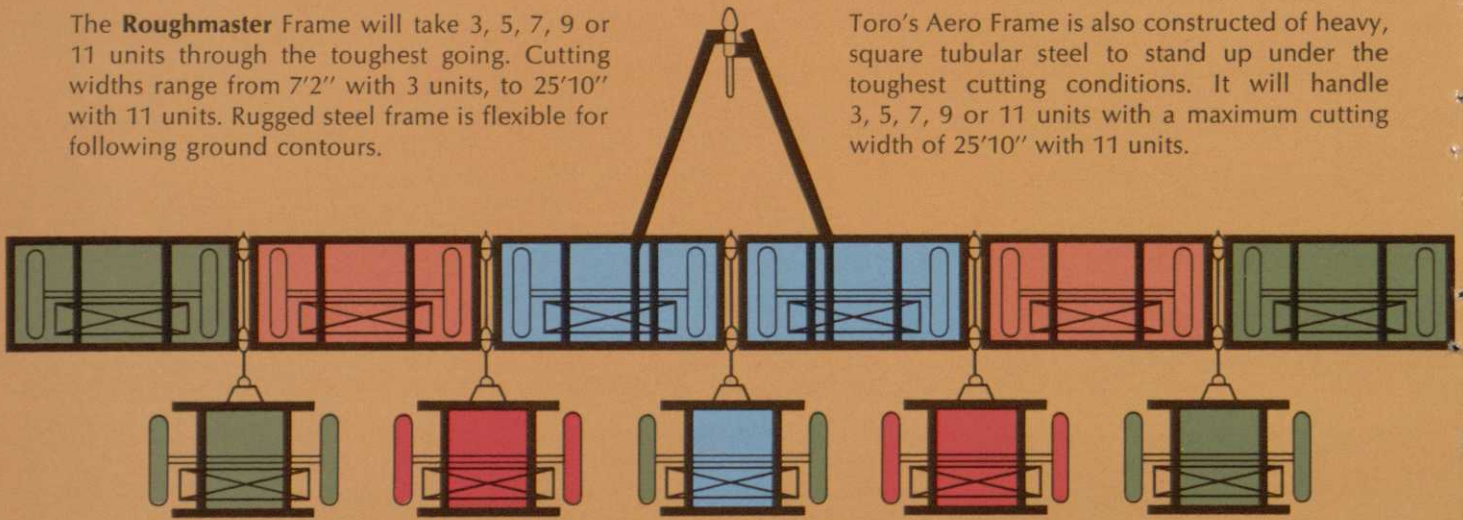


# ROUGHMASTER

## FRAMES

The **Roughmaster** Frame will take 3, 5, 7, 9 or 11 units through the toughest going. Cutting widths range from 7'2" with 3 units, to 25'10" with 11 units. Rugged steel frame is flexible for following ground contours.

Toro's Aero Frame is also constructed of heavy, square tubular steel to stand up under the toughest cutting conditions. It will handle 3, 5, 7, 9 or 11 units with a maximum cutting width of 25'10" with 11 units.



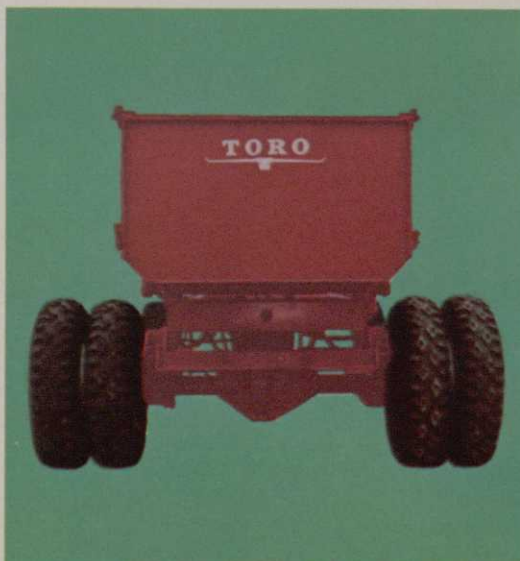
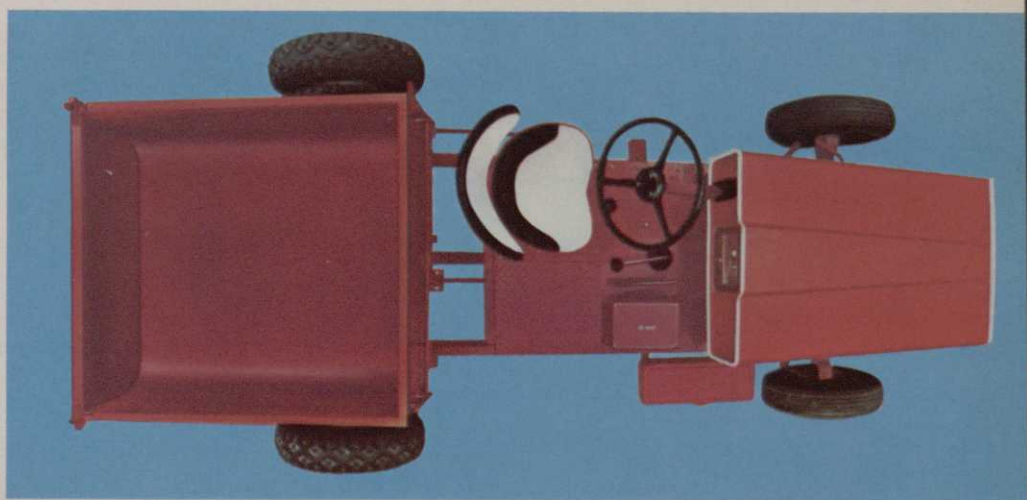




# GENERAL TRACTOR

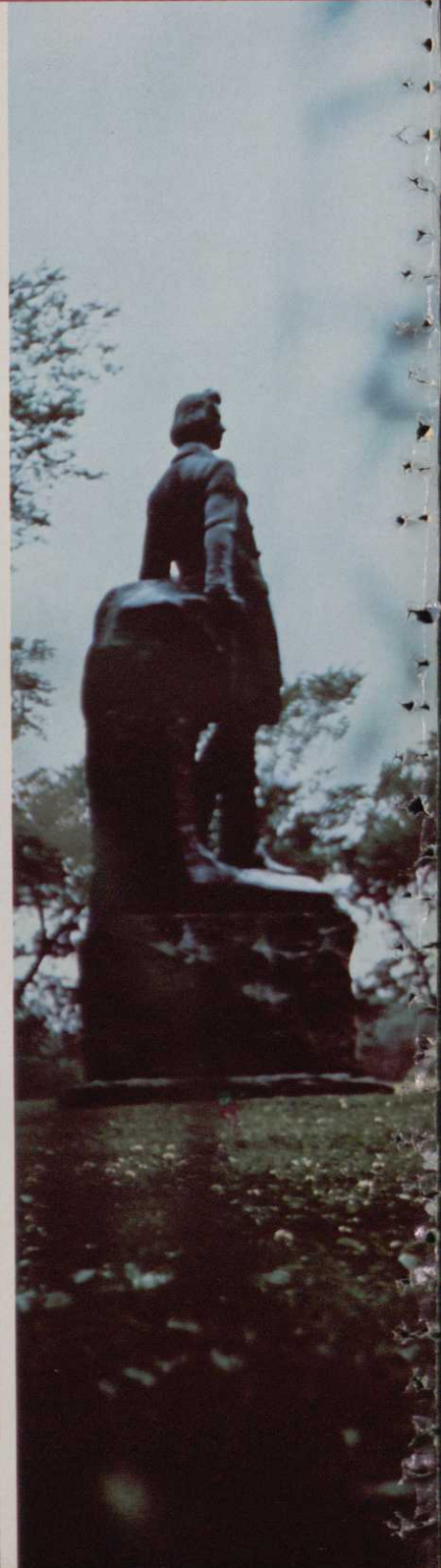
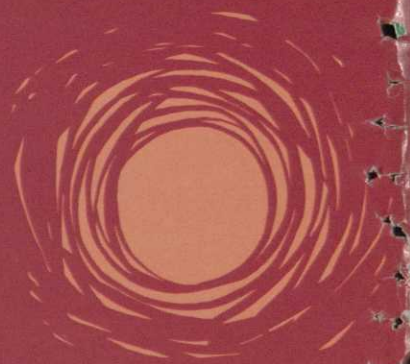
Versatility. That's perhaps the only word that describes the many applications you will find for this turf designed, multi-purpose machine. An armful of options lets you design the tractor you need.

- Optional dump box.
- Flexible mowing combinations.
- High transport speed.
- Optional hydraulic kit, power steering, lights and more.





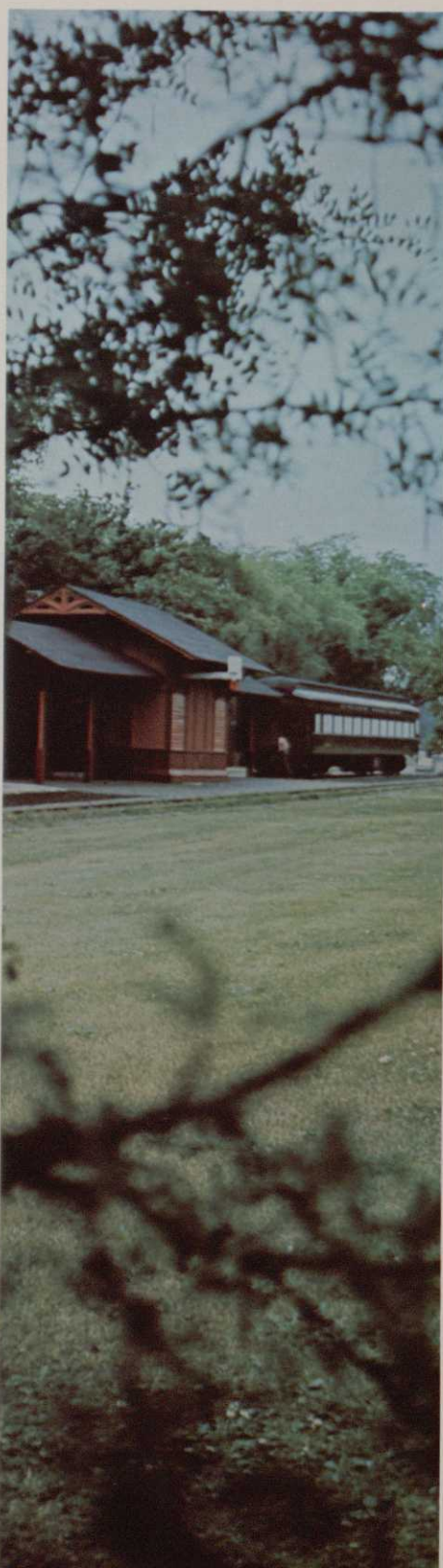
# PARKMASTER





Flexibility and highway speed are yours with Toro's **Parkmaster**. This turf maintenance specialist is designed for maintaining large and widely dispersed turf areas. It can mow better than 60 acres a day. And it zips from job to job at better than 30 m.p.h. Hydraulic 5 or 7 unit frame enhances its flexibility. Seven mowing units can be raised hydraulically, in less than a minute, for transport or for mowing around obstacles.

The Toro **Parkmaster** will take both **Spartan** and **Roughmaster** gang mowers. With 5 units it cuts a maximum swath of 11', 7 units cut 15' swath. Six cylinder engine puts out 79 hp., climbs your toughest hills with ease, traverses 2:1 slopes. The **Parkmaster** has full instrumentation, finger-tip controls and a comfortable, padded bucket-type seat. Turning radius is 7'3". Power steering is optional.







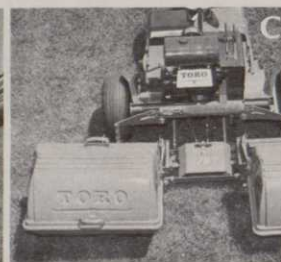
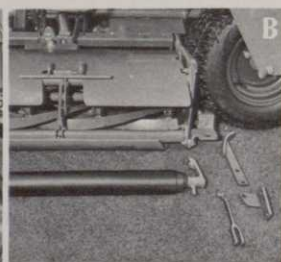
# ACCESSORIES

Toro accessories add the final touch . . . customize fine performing equipment to match your individual needs. Toro distributors will install these accessories prior to delivery or they can be added at a later time.



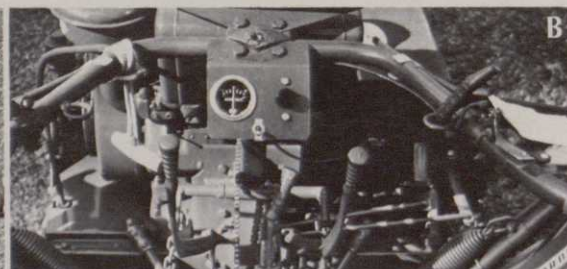
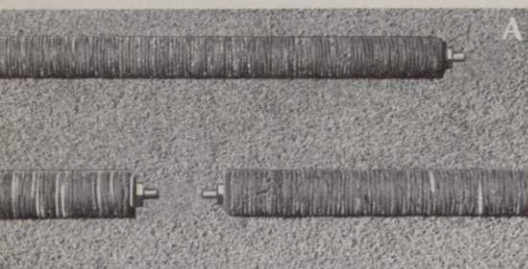
## HEVI-DUTY WHIRLWINDS

- A** Bagging Kits 21" and 25" **WHIRLWIND®**
- B** Heavi-duty Sully (Model No. 60003)
- C** Leaf Mulcher (Model No. 4-8989)



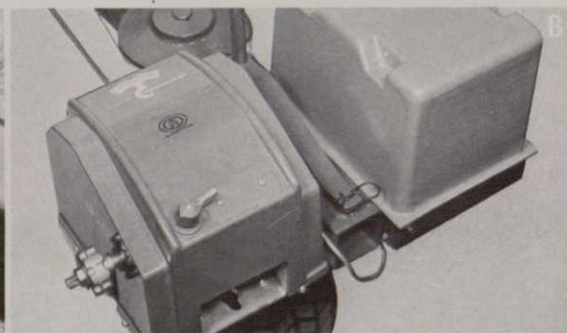
## 70" PROFESSIONAL®

- A** Front and Rear Roller Kits (Model No. 4-7379 & 4-8349)
- B** Rear Rubber Coated Roller (Model No. 4-5279)
- C** Grass Basket Kit (Model No. 4-7469)
- D** Electric Starting (Model No. 03225 & 03235)



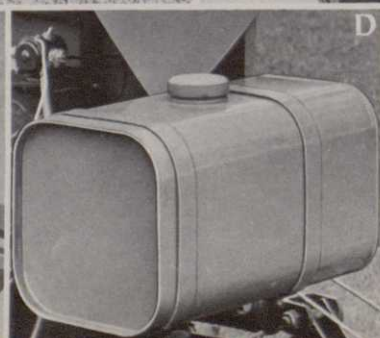
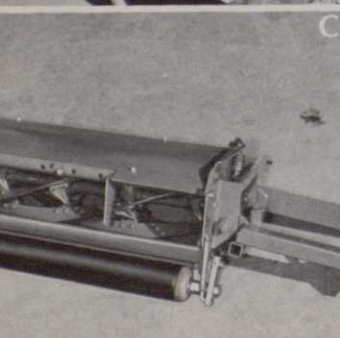
## 76" PROFESSIONAL®

- A** Rubber Roller Kit
- B** Electric Starting Kit (Model No. 1-6969)

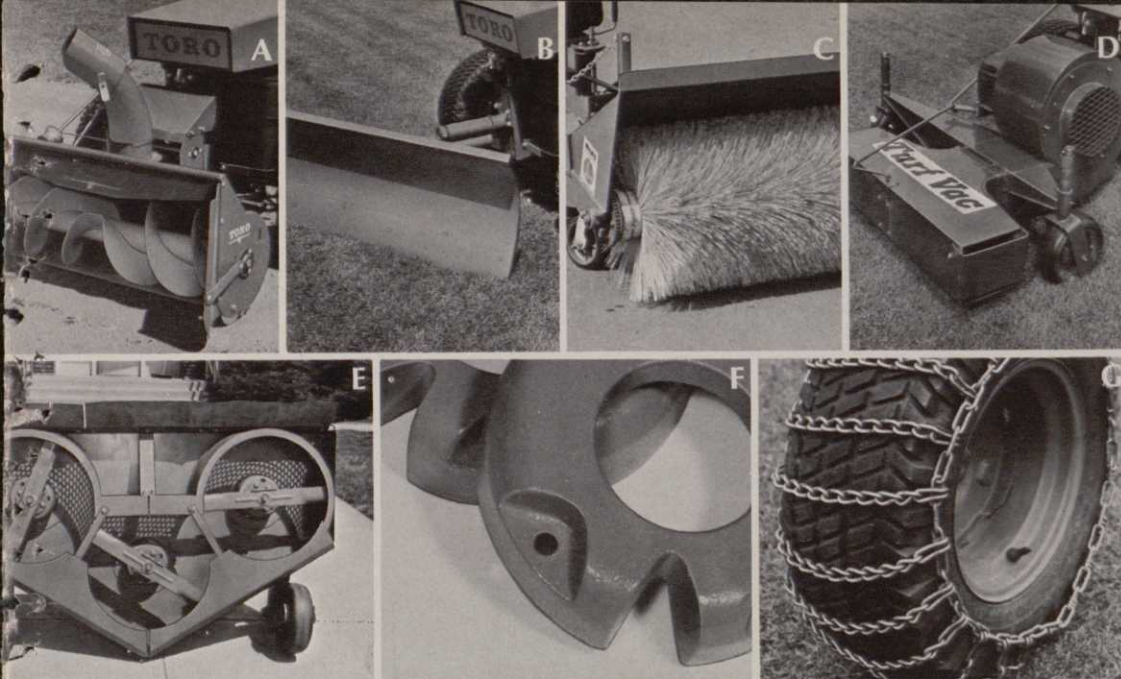


## SUPER PRO®

- A** Dual Wheel Kit (Model No. 3-9459)
- B** Electric Winch (Model No. 5-4550)
- C** Rubber Roller Kits (Model No. 4-4699 (3) & 4-4709 (2))
- D** Dual Fuel Tanks (Model No. 4-4329)
- E** Wheel Weights (Model No. 59013)

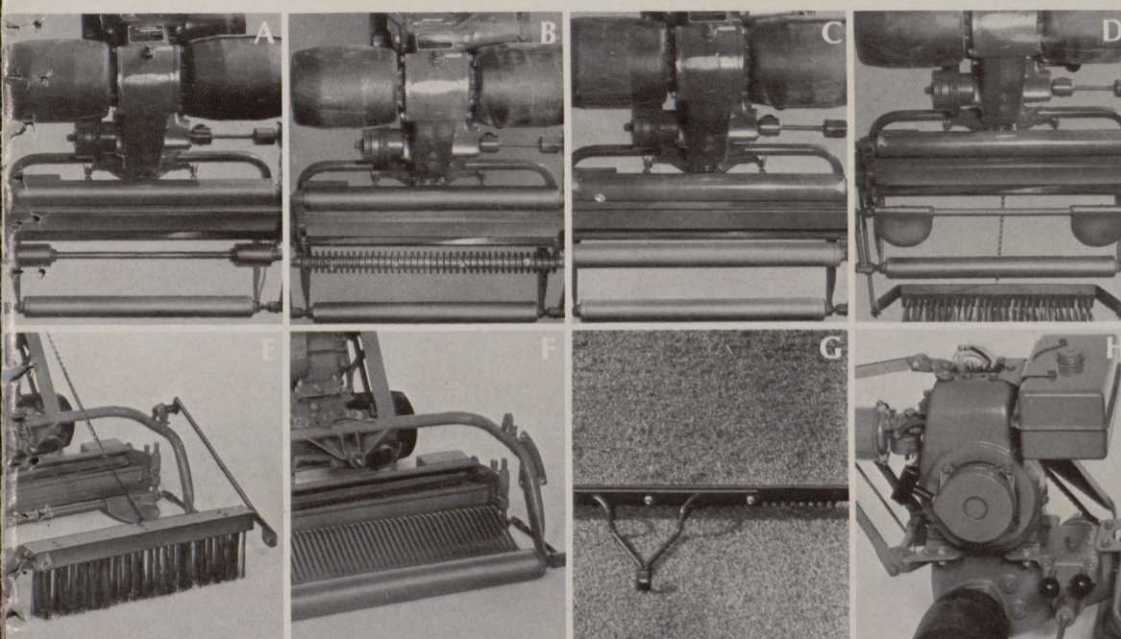






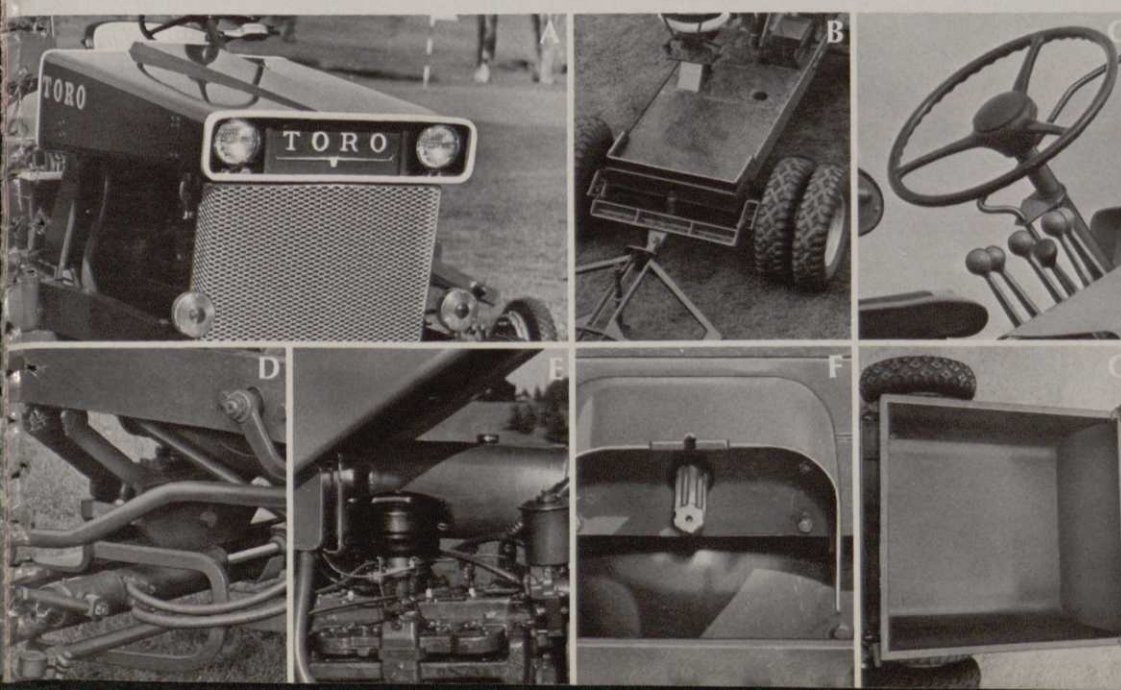
## TROJAN II

- A** 48" Snow Blower  
(Model No. 30400)
- B** 54" Snow Blade  
(Model No. 30500)
- C** 48" Angle Broom (Mars)
- D** Leaf Blower (Turf-Vac)
- E** Leaf Mulcher  
(Model No. 2-9539)
- F** Wheel Weights  
(Model No. 59013)
- G** Tire Chains  
(Model No. 59015)



## GREENSMaster

- A** Sectional Roller Kit  
(Model No. 4-7319)
- B** Wiehle Roller Kit  
(Model No. 4-7289)
- C** Full Roller Kit  
(Model No. 4-7309)
- D** Skid Kit  
(Model 4-7299)
- E** Brush Kit  
(Model No. 2-2949)
- F** Delmonte Comb  
(Model No. 2-2939)
- G** Rigid Comb  
(Model No. 2-2849)
- H** 4 Horsepower Cast Iron Engine  
(Model No. 04117)



## GENERAL TRACTOR

- A** Road Package  
(Model No. 70097)
- B** Platform Extension  
(Model No. 70053)
- C** Governor-hand Throttle  
(Model No. 70103)
- D** Power Steering  
(Model No. 70064)
- E** Hydraulic Kit  
(Model No. 70023)
- F** Power Takeoff  
(Model No. 70113)
- G** Dump Box  
(Model No. 70043)



# SPECIFICATIONS



Description and Model Number	21" Hevi-Duty WHIRLWIND® 23000 Hand Propelled 23100 Self Propelled	25" Hevi-Duty WHIRLWIND® 23201 Self Propelled	34" Hevi-Duty WHIRLWIND® 23301 Self Propelled	31" WHIRLWIND® 25233 Standard Model 25313 Reverse Model
Engine	5.0 h.p. 4 cycle with oil pump. 12.2 cu. inch displacement. Replaceable bronze bearings. Recoil starter. Oil bath air cleaner. 1" dia. x 3/4" crankshaft ext.	5.0 h.p. 4 cycle. Recoil starter. Oil pump. Flyball governor. Oil bath air cleaner. Steelite exhaust valve. 12.2 cu. in. disp. Replaceable bronze main bearings	6 h.p. 4 cycle. Oil pump 13.5 cu. in. disp. Recoil starter. Oil bath air cleaner. Replaceable bronze bearings. Mechanical flyball governor. 1" x 3/4" shaft extension	9.2 h.p. 4 cycle. Rope starter. Steelite valves. Oil bath air cleaner. Flyball governor. Float feed carburetor
Fuel Capacity	5 quarts, on handle	5 quarts, on handle	5 quarts, on handle	6 quarts
Traction Drive	Tight slack V-belt clutch operated from handle. V-belt from 2.8 p.d. sheave on engine shaft to 4.0 p.d. sheave on speed reducer input shaft. Worm gear case. Steel pinions supported by double sealed ball bearings. Laminated steel spur gears riveted to wheels (3:1 reduction)	V-belt from 2.5 sheave on engine crankshaft to 3.5 sheave on speed reducer shaft. Cast gear box. Worm and worm gear case hardened supported by thrust ball bearings and needle bearing final drive. Hardened steel pinions on sealed ball bearing to case hardened steel gear welded to wheels	V-belt from 2.5 sheave on engine shaft to 3.5 sheave on speed reducer shaft. Cast gear box. Worm and worm gear case hardened supported by thrust ball bearings and needle bearings. Final drive hardened steel pinions on sealed ball bearings to case hardened steel gears welded to wheels	A section belt to speed reducer. Rockford disc clutch. Chain drive to rear wheels. Double sheaved pulleys offer dual speed ranges
Cutter Drive	Blade held by steel adapter fastened to engine crankshaft	A section V-belt. Spring loaded ball bearing idler friction brake operates with belt tension release. Prevents blade rotation when belt drive is not engaged. Control mounted on handle of unit	A section V-belt. Engine to right spindle. Spring load bearing idler with friction brake. Special heavy 1" belt drives from right to left spindle. Friction brake prevents blade from windmilling when belt is not engaged	Tight-slack flat belt. 1 1/2" wide belt
Reverse Mechanism				Beval gear type reverse mounted on speed reducer input shaft
Construction	12 gauge stamped steel housing. Spiral grass chamber. Right hand discharge	14 gauge stamped steel housing. Spiral grass chamber. Right hand discharge	14 gauge stamped steel housing. Suspended from 1" x 12 gauge steel tubular one-piece frame	3/8" steel plate welded into one unit. Reinforced by angle iron. Adjustable front shield and hinged rear guard
Differential	One way overrunning roller clutch between each individual wheel drive and speed reducer	One way over-running roller clutch between each individual wheel drive and speed reducer	One way over running roller clutch between each wheel drive and speed reducer	Enclosed. 3 pinion. Beval gears. All gears heat treated. Alloy steel
Width of Cut	21 inches	25 inches	34 inches	31 inches
Height of Cut	1" to 4 1/4" by moving wheels	1" to 4 1/4". Spring lever on rear. Pins on front	1" to 4 1/4" by moving rear wheels and front separately	3/8" to 3 3/8" adjusted by spacers on cutter bar shaft
Wheels	Ball bearing steel disc wheels with 8" diameter x 1.75" semi-pneumatic tires. Zerk fittings for lube	Rear. Ball bearing steel wheels with 10.25 x 3.50 semi-pneumatic tires front. Ball bearing steel wheels 8" x 1.75 semi-pneumatic	Rear. 10.25 x 3.50 ball bearing steel semi-pneumatics Front. 8 x 1.75 ball bearing steel semi-pneumatics on ball bearing casters	Rear. 14 x 4.00 ball bearing steel semi-pneumatics Front. 12 x 3.00 ball bearing steel semi-pneumatics
Weight	94 lbs.—Model 23000 110 lbs.—Model 23100	164 lbs.	178 lbs.	454 lbs.
Dimensions	Width 24 1/4" Length 34" Height 15 1/4" less handle. Wheels set at 1" height setting	Width 29" Length 42" Height 19 1/2" less handle. Wheels set at 1" height setting	Width 40" Length 42" Height 19 1/2" less handle Wheels set at 1" height	Width 39" Length 66" including handle Height 36"
Blades	21" hardened high carbon steel. 3/8" thick. Suction lift design	25" hardened high carbon steel. 3/8" thick. Suction lift design	2-18" hardened high carbon steel. Positive attachment with one fastener. Blades synchronized on 16" centers with 2" overlap	3/8" thick steel arm with hardened blades riveted to ends
Handle-Steering Controls	Welded steel tube in two separate halves. Plastic hand grip. 3 position height adjustment. Throttle on handle. Traction control separate	Welded 3/4" steel tube. Plastic hand grip. 3 position height adjustment. Throttle traction and blade control located on handle	Welded 3/4" steel tube. Plastic hand grip. 3 position adjustment. Throttle, traction and blade controls mounted on handle	1 1/4" x 13 gauge steel tubing. Adjustable for operating height. Throttle, traction and blade clutch mounted on handle
Speed Range	2.84 mph at 3200 rpm	2.92 mph at 3200 rpm	2.92 mph at 3200 rpm	2, 3, or 4 mph at 3000 rpm depending on pulley selection
Mowing Capacity				7 1/2 acres per day at 3.5 mph
Optional Equipment	Bagging attachment 5 bushel capacity	Bagging attachment 5 bushel capacity	Flat blades	Heavy duty sulky leaf mulcher