



# Reelmaster® Frames & Cutting Units Specifications\*

REELMASTER TRANSPORT FRAME - 5 UNIT, MODEL 33455 - 5 TO 7 UNIT CONVERSION KIT, MODEL 33452																									
<b>CUTTING CAPACITY</b>	6.7 acres/h (2.7 hectares/h) @ 5.5 mph (8.8 km/h) with 5 Unit Frame. 9.4 acres/h (3.8 hectares/h) @ 5.5 mph (8.8 km/h) with optional 7 Unit Frame. Assumes no reduction in total area mowed due to overlap, turning, stops, etc.																								
<b>LIFTING MECHANISM</b>	Hydraulic lift - 1st, 2nd and 3rd cutting units operate together. Cutting units 4 and 5 (and optional 6 and 7) operate individually.																								
<b>MAIN FRAME</b>	Tubular and structural steel; bolted and electrically welded construction.																								
<b>WING LIFT ARMS</b>	Tubular steel, reinforced welded construction.																								
<b>AXLE ASSEMBLY</b>	Implement type. Maximum load capacity is 4940 lbs. (2241 kg) at maximum tire inflation of 28 psi (1.9 bars).																								
<b>TRAILER TRANSPORT WHEELS</b>	6 bolt, 15 x 8" implement style wheels with 11L-15, 6-ply rating implement rib tires. Recommended tire pressure: 24-28 psi (1.6-1.9 bars).																								
<b>TRAILER TONGUE</b>	Tubular and structural steel; welded construction. Trailer clevis is adjustable to 3 positions.																								
<b>CONTROL TOWER</b>	Adjustable to 12.5" (32 cm) fore/aft and 7" (18 cm) up and down; controls are operable from tractor seat.																								
<b>JACK</b>	Side-screw type trailer jack. 10" (25.4 cm) stroke. Stores inside trailer tongue when not in use. Load capacity: 2200 lbs. (998 kg).																								
<b>HYD. SYSTEM CAPACITY</b>	2 gallons (7.6 liters) hydraulic oil with cylinders retracted.																								
<b>HYD. SYSTEM COUPLERS</b>	Quick-disconnect coupler for easy hook-up to tractor.																								
<b>HYDRAULIC VALVE</b>	Heavy duty directional control valve, parallel circuit open center, stack design. Cast iron valve bodies with hardened spools and plated for corrosion protection. Primary relief valve [approx. 1500 psi (103.4 bars)] shim adjustable. Relief valve prevents excess pressure build-up in the hydraulic system and safeguards the hydraulic pump and hoses.																								
<b>HYDRAULIC CYLINDERS</b>	Tie rod construction, 3" (7.6 cm) bore, double-acting cylinders; chrome-plated rods 1.375" (3.5 cm) diameter for units 1, 2, and 3; and 1.125" (2.8 cm) diameter for units 4, 5, 6, and 7; all with precision finished bore in cylinder tubes.																								
<b>HYDRAULIC HOSES</b>	SAE 100R7, two braid, 1/2" (12.7 mm) ID feed line hoses from tractor to valve body. SAE 100R7, two braid, 5/16" (7.9 mm) ID cylinder hoses from valve body to hydraulic cylinders.																								
<b>CUTTING UNITS</b>	Reelmaster 5, 7 or 11-blade cutting units.																								
<b>FRAME DIMENSIONS</b>	<table border="1"> <thead> <tr> <th>Transport Frame w/ Cutting Unit</th> <th>Tread Width</th> <th>Length</th> <th>Transport Width</th> <th>Mowing Width</th> <th>Transport Height</th> <th>Weight w/ Cutting Units</th> <th>Clearance</th> </tr> </thead> <tbody> <tr> <td>5 Unit Frame</td> <td>68" (173 cm)</td> <td>150" (381 cm)</td> <td>7' 11" (241 cm)</td> <td>11' (335 cm)</td> <td>58" (147 cm)</td> <td>2760 lbs. (1252 kg)</td> <td>71/2" (19 cm)</td> </tr> <tr> <td>7 Unit Frame</td> <td>68" (173 cm)</td> <td>150" (381 cm)</td> <td>7' 11" (241 cm)</td> <td>14' 4" (437 cm)</td> <td>58" (147 cm)</td> <td>3560 lbs. (1615 kg)</td> <td>71/2" (19 cm)</td> </tr> </tbody> </table>	Transport Frame w/ Cutting Unit	Tread Width	Length	Transport Width	Mowing Width	Transport Height	Weight w/ Cutting Units	Clearance	5 Unit Frame	68" (173 cm)	150" (381 cm)	7' 11" (241 cm)	11' (335 cm)	58" (147 cm)	2760 lbs. (1252 kg)	71/2" (19 cm)	7 Unit Frame	68" (173 cm)	150" (381 cm)	7' 11" (241 cm)	14' 4" (437 cm)	58" (147 cm)	3560 lbs. (1615 kg)	71/2" (19 cm)
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<b>OPTIONS</b>	<p><b>Conversion Kit, 18" (46 cm) Cutting Unit Wheels, P/N 51-3060:</b> Using 18" (46 cm) semi-pneumatic cutting unit wheels. Kit is required for 6 &amp; 7 position cutting units.</p> <p><b>Hitch Ball Couple Kit, P/N 53-9760:</b> Coupler bolts directly to frame and replaces the standard clevis type hitch.</p> <p><b>Hydraulic System, Closed Center, Conversion Kit, P/N 48-1900:</b> Pressure reducing valve, and hydraulic fittings to provide installation for tow tractors with closed center hydraulic systems.</p> <p><b>5-7 Conversion Kit, Model 33452:</b> consists of component parts to allow the installation of two additional cutting units.</p>																								
<b>WARRANTY</b>	Two-year limited warranty. Refer to the Operator's Manual for further details.																								

REELMASTER UNIVERSAL FRAME	
<b>FRAME UNITS</b>	5 Unit — Model 33145 & 33155 (required)      7 Unit — Model 33145 & 33155 & 33165 (required)
<b>CUTTING WIDTH (APPROX.)</b>	5 Unit — 11' (335 cm)      7 Unit — 16' (488 cm)
<b>CUTTING CAPACITY</b>	<b>Acres/hr at 5.5 mph (8.8 km/h)</b>
	5 Unit      7.2 (2.9 hectares) 7 Unit      10.5 (4.2 hectares)
<b>OVERALL WIDTH IN CUTTING POSITION</b>	<b>Mowers w/ Iron Wheels</b> <b>Mowers w/ Rubber Wheels</b>
	5 Unit      12'4" (376 cm)      12'8" (386 cm) 7 Unit      16'10" (513 cm)      17'2" (523 cm)
<b>MAIN FRAME CONSTRUCTION</b>	Reinforced structural steel and tubular steel welded construction.
<b>CUTTING UNIT</b>	Reelmaster 5, 7 or 11-blade cutting units.
<b>OVERALL LENGTH</b>	10' (304 cm).

\*Specifications and designs subject to change without notice.





# Reelmaster® Frames & Cutting Units Specifications\* (continued)

REELMASTER GANG MOWERS - 5-BLADE, MODEL 01005; 7-BLADE, MODEL 01007; 11-BLADE, MODEL 01011					
<b>TYPE OF MOWING</b>	<b>Reel Type</b>	<b>Turf Application</b>		<b>Width of Cut</b>	
	5-Blade w/16" (40.6 cm) wheels 5-Blade w/18" (45.7 cm) wheels 7 Blade 11 Blade	Semi-formal Informal (rough) Formal Super-formal		30" (76.2 cm) 30" (76.2 cm) 30" (76.2 cm) 30" (76.2 cm)	
<b>HEIGHT OF CUT (HOC)</b>	<b>Reel Type</b>	<b>Recommended HOC Range</b>			
	11-Blade w/16" (40.6 cm) wheels 7-Blade w/16" (40.6 cm) wheels 5-Blade w/16" (40.6 cm) wheels 5-Blade w/18" (45.7 cm) wheels	.5" - 1.25" (12.7 mm - 45 mm) .75" - 1.75" (19 mm - 45 mm) 1.25" - 2.25" (32 mm - 57 mm) 2" - 3" (51 mm - 76 mm)			
<b>HOC ADJUSTMENT</b>	Roller brackets adjust the height of cut, offering 53 individual settings in .040" (1 mm) increments.				
<b>REEL CONSTRUCTION</b>	<b>5-Blade:</b> 8.0625" (20.4 cm) diameter with 5 medium carbon steel induction hardened blades. <b>7-Blade:</b> 8.0625" (20.4 cm) diameter with 7 medium carbon steel induction hardened blades. <b>11-Blade:</b> 7.0625" (18 cm) diameter with 11 medium carbon steel induction hardened blades. <b>All Reels:</b> blades are welded to seven, 7-gauge, steel spiders. 1.5" (3.8 cm) diameter shaft on tapered roller bearings with adjustment nut to compensate for bearing wear. Blade hardness at cutting edge is Rc 44-51.				
	<b>CHASSIS CONSTRUCTION</b>	Ribbed cast iron gear cases with tubular cross member. Front cross member provides lift point for the cutting unit to all Toro Reelmaster Frames. Front cross member provides frame rigidity.			
<b>REEL DRIVE</b>	Two ground engaged wheels transmit power to gear train in both sides. Machine cut hardened steel gears and clutch idler gear; 75T ring gear to 10T pinion gear through 14T disengaging idler gear. All gears are sealed from dirt. Reel to wheel speed ratio: 7.5:1.				
<b>DIFFERENTIAL</b>	The differential provides disengaging overrunning idler gear in the gear train to disengage reel for free wheeling in turns and transport.				
<b>AVERAGE CLIP FREQUENCY</b>		<b>Inch</b>	<b>Millimeter</b>	<b>Wheel Diameter</b>	<b>Cuts Per Meter</b>
	<b>11-Blade</b>	.58"	14.7 mm	16" (40.6 cm)	68
	<b>7-Blade</b>	.91"	23.1 mm	16" (40.6 cm)	43
	<b>5-Blade</b>	1.28"	32.5 mm	16" (40.6 cm)	31
<b>5-Blade</b>	1.51"	38.3 mm	18" (45.7 cm)	26	
<b>BEDKNIFE-TO-REEL ADJUSTMENT</b>	Bedknife adjusts against reel positively with a single hand-controlled knob located at center of bedbar. Adjustment knob contains detent with .001" (.025 mm) movement of bedknife for each indexed position. No tools required. Top pivot points are greaseable.				
<b>BEDKNIFE &amp; BEDBAR</b>	High carbon steel bedknife attached to a fabricated steel bar; single screw adjustment pivots at three points on vibration isolating bushings with eccentric shoulder bolt leveling adjustment. Bedknife hardness is Rc 40-51.				
<b>CUTTING UNIT SUSPENSION</b>	Drawbar attaches to two low pull points on cross tube. Chain pick up at center of cutting unit for transportation. System allows for flotation in all directions in mowing mode.				
<b>REAR ROLLER</b>	3.5" (8.9 cm) diameter steel roller has greaseable tapered roller bearings with a double lip oil seal and wear sleeve to help keep out grit and moisture. Roller brackets adjust the height of cut.				
<b>BEARINGS</b>	The reel, roller and wheels have adjustable tapered roller bearings.				
<b>LUBRICATION</b>	Gears and bearings are continuously lubricated from main reservoirs filled with 16 ounce (473 ml), 80-90 weight gear oil.				
<b>FRAME APPLICATIONS</b>	5 or 7 unit Reelmaster Transport Frame, 3 unit Reelmaster Lift Frame of 3, 5 or 7 unit Reelmaster Universal Frames. See Reelmaster Frame sales specification literature for more details.				

OVERALL WEIGHTS[1] & DIMENSIONS (APPROXIMATE)					
	5-Blade Model 01005	7-Blade Model 01007	11-Blade Model 01011	Height	Wheel Tread Width
16" dia. w/ Semi-pneumatic Wheels, Model 01304	239 lbs. (108.4 kg)	244 lbs. (110.6 kg)	248 lbs. (112.5 kg)	16" (40.6 cm)	41.375" (105 cm)
16" dia. w/ Pneumatic Wheels, Model 01323	225.5 lbs. (102.2 kg)	230.5 lbs. (104.5 kg)	234.5 lbs. (106.3 kg)	16" (40.6 cm)	41.375" (105 cm)
16" dia. w/ Steel Wheels, Model 01336	237 lbs. (107.5 kg)	242 lbs. (109.7 kg)	246 lbs. (111.6 kg)	16" (40.6 cm)	41.375" (105 cm)
18" dia. w/ Semi-pneumatic Wheels, Model 01035	252 lbs. (114.3 kg)	N/A	N/A	18" (45.7 cm)	45.5625" (114.7 cm)

OPTIONAL ACCESSORIES	
Part No.	Description
47-4540	Roller Scraper Kit
47-5390 (11-blade) 51-0800 (5-blade, 7-blade)	Grass Dispersion Shield Kit

\*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 design, required attachments and safety features. Consult your local Toro Distributor.

[1] Weights exclude drawbars.

