



# Reelmaster® 6500-D & 6700-D Specifications\*

	REELMASTER 6500-D MODEL 03806, 2WD OR MODEL 03807, 4WD	REELMASTER 6700-D MODEL 03808, 4WD																																			
<b>ENGINE</b>	Kubota® V1505-T liquid-cooled diesel engine. 4-cylinder, over-head valve. 1.5 liter displacement. Turbo-charged. 46 hp (34.3 kW) gross rated, 42 hp (31.3 kW) net at 3000 rpm. 40 amp alternator. Donaldson two-stage air cleaner with safety filler and restriction indicator.																																				
<b>RADIATOR</b>	Rear mounted, cross-flow agricultural type radiator, 7 fins per inch. Cooling system capacity is 3.5 gallons (13.25 liters). Air to oil cooler with 2 rows, 6 fins per inch, mounted in front of radiator tips outward for cleaning. Removable oil cooler/radiator screen.																																				
<b>ELECTRICAL FEATURES</b>	12-volt, 650 cold cranking amperes at 0°F (-18°C), 105 minute reserve capacity at 80°F (27°C), maintenance free battery. 1.4 kW electric starter. 55 amp alternator with I.C. regulator/rectifier. Automotive type electrical system. Seat switch, reel and traction interlock switches.																																				
<b>FUEL SYSTEM</b>	Bosch® in-line fuel injection pump with energized-to-run (ETR) fuel flow solenoid. Replaceable spin-on fuel filter/water separator. Fuel capacity: 15 gallons (57 liters). 2008 models Biodiesel-Ready for use up to B-20 (20% biodiesel and 80% petrol blend).																																				
<b>CONTROLS</b>	Foot operated traction and brake pedals. Hand operated throttle, traction speed limiter, parking brake latch, ignition switch, single joystick control for cutting unit on/off and lift/lower. Reel speed and backup controls located under the hood.																																				
<b>GAUGES</b>	Hour meter, speedometer, fuel gauge, engine coolant gauge, and warning light cluster: engine oil pressure, high engine temperature, charge indicator, glow plug, water in fuel indicator, low water indicator. Reel control lamp that lights to indicate the reels are not providing desired clip.																																				
<b>DIAGNOSTICS</b>	The Automatic Control Electronics, ACE™ system allows precision timing and control of machine functions for maximum reliability. Optional diagnostic display connects to an electronic control unit to pinpoint any electrical problems quickly and easily. Available DATA LOG™ system allows mechanic to find intermittent problems. Diagnostic test ports are provided for front and rear cutting unit drive, cutting unit lift, steering, and hydrostatic transmission charge pressure.																																				
<b>TRACTION DRIVE</b>	Power to the front drive wheel is via servo-controlled hydrostatic pump operating individual fixed displacement axial piston wheel motors that operate a planetary gear final drive assembly. Foot pedal control of forward/reverse ground speed. <b>Toro 4-Matic® 4WD System only:</b> couples rear drive axle to hydrostatic transmission via overrunning clutch for full time on-demand 4WD. A Roll Over Protection Structure (ROPS) and seat belt are standard on 4WD models.																																				
<b>GROUND SPEED</b>	0-10 mph (0-16.1 km/hr) forward; 0-4 mph (0-6.4 km/hr) reverse.																																				
<b>TIRES/WHEELS/PRESSURE</b>	Two rear steering tires: 20 x 10-10, tubeless, 6-ply rating. Two front traction drive tires: 29 x 14-15, tubeless, 6-ply rating. Recommended tire pressure: 10-15 psi (59-103 kPa).																																				
<b>MAIN FRAME</b>	All welded steel frame includes tie-down loops.																																				
<b>BRAKES</b>	Wet triple disc brakes on front planetary assemblies may be actuated individually for service brakes or locked together for transport or parking brakes. Dynamic braking through hydrostatic traction drive.																																				
<b>STEERING</b>	Power steering with dedicated power source.																																				
<b>SEAT</b>	Deluxe seat with adjustable suspension and fore-aft location. Optional Armrest Kit, Model 30707.																																				
<b>ROPS</b>	A 4-post ROPS with seat belt and optional canopy; standard on Models 03807 and 03808, optional on Model 03806.																																				
<b>OVERALL DIMENSIONS</b>	<table border="1"> <thead> <tr> <th></th> <th>Height</th> <th>Length</th> <th>Transport Width</th> <th>Operational Width</th> <th>Wheel Tread</th> <th>Wheelbase</th> </tr> </thead> <tbody> <tr> <td><b>Models 03806/03807:</b></td> <td>60" (152 cm) w/o ROPS</td> <td>120" (305 cm)</td> <td>84" (213 cm)</td> <td>110" (279 cm)</td> <td>72.25" (178 cm) - front</td> <td>58" (147 cm)</td> </tr> <tr> <td></td> <td>84" (213 cm) w/ ROPS</td> <td></td> <td></td> <td></td> <td>41" (104 cm) - rear</td> <td></td> </tr> <tr> <td><b>Model 03808:</b></td> <td>84" (213 cm) w/ ROPS</td> <td>120" (305 cm)</td> <td>84" (213 cm)</td> <td>147" (374 cm)</td> <td>72.25" (178 cm) - front</td> <td>58" (147 cm)</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>41" (104 cm) - rear</td> <td></td> </tr> </tbody> </table>			Height	Length	Transport Width	Operational Width	Wheel Tread	Wheelbase	<b>Models 03806/03807:</b>	60" (152 cm) w/o ROPS	120" (305 cm)	84" (213 cm)	110" (279 cm)	72.25" (178 cm) - front	58" (147 cm)		84" (213 cm) w/ ROPS				41" (104 cm) - rear		<b>Model 03808:</b>	84" (213 cm) w/ ROPS	120" (305 cm)	84" (213 cm)	147" (374 cm)	72.25" (178 cm) - front	58" (147 cm)						41" (104 cm) - rear	
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<b>NET WEIGHT WET</b>	<b>Model 03806:</b> 3,100 lbs. (1,407 kg) with 5-blade cutting units and full fluid levels. <b>Model 03807:</b> 3,200 lbs. (1,453 kg) with 5-blade cutting units and full fluid levels. <b>Model 03808:</b> 3,850 lbs. (1,748 kg) with 5-blade cutting units and full fluid levels.																																				
<b>SOUND LEVEL</b>	82 dB(A) under normal operating conditions.																																				
<b>WARRANTY</b>	Two-year limited warranty. Refer to the Operator's Manual for further details.																																				
<b>CERTIFICATION</b>	The Reelmaster 6000 series complies with American National Standards Institute (ANSI B71.4-1999) and European Community (CE) specifications with required weight kits and ballast installed.																																				

	HYDRAULIC SYSTEM
<b>PUMP</b>	A three section gear pump provides hydraulic flow to power the cutting units, power steering and cutting unit lift.
<b>CONTROL BLOCKS</b>	All hydraulic functions are controlled by two integrated hydraulic control blocks utilizing cartridge type relief valves, solenoid controlled proportional valves and solenoid operated directional control valves.
<b>REEL SPEED CONTROL</b>	Reel drive circuit is split into front and rear independent circuits. Each circuit has a manually adjustable control for reel speed and backlap adjustment.
<b>LIFT CYLINDERS</b>	The front right and left units and the rear two units are raised by individual cylinders in separate series circuits. The front center unit and outer rear units on Model 03802 are raised individually. All lift and lower sequences are controlled by the ECU.
<b>HYDRAULIC OIL RESERVOIR</b>	100% of oil from reservoir passes through a 100 mesh suction strainer before entering the reel drive circuit. 8.5 gallon (32 liter) capacity.
<b>HYDRAULIC OIL FILTER</b>	11 gram capacity at 10 gallon (37 liter) per minute flow Average Beta = 20 at 3 micron. Filter head has integral 50 psi (3.4 bars) bypass and a true differential pressure service indicator.

\*Specifications and design subject to change without notice.



# Reelmaster® 6500-D & 6700-D Specifications\* (continued)

## DPA Cutting Units – Retrofit 2001 and newer traction units

		8 AND 11-BLADE DPA CUTTING UNITS, MODELS 03863 AND 03864	
		Reelmaster 6500-D	Reelmaster 6700-D
<b>TYPE</b>		Five hydraulically driven, balanced cutting units with adjustable rear weight transfer spring. Cutting units feature quick disconnect for removal/installation and are interchangeable to all positions. Cutting units also feature rear throw capability.	Seven hydraulically driven, balanced cutting units with adjustable rear weight transfer spring. Cutting units feature quick disconnect for removal/installation and are interchangeable to all positions. Cutting units also feature rear throw capability.
<b>WIDTH OF CUT</b>		96" (244 cm).	133" (338 cm)
<b>SIZE</b>		22" (56 cm) wide, 7" (17.8 cm) diameter, 8 and 11 blade cutting units.	
<b>HOC RANGE</b>		0.25" - 1.0" (6.4-25.4 mm) standard. Up to 2.0" (50.8 mm) with high height of cut kit.	
<b>REEL SPEED</b>		Manually controlled, variable reel speed for control of clip frequency.	
<b>BEDKNIFE ADJUSTMENT</b>		Dual Precision Adjustment (DPA), bedknife to reel.	
<b>ROLLERS</b>		3" (7.6 cm) diameter, deep groove Wiehle front roller. 3.0" (7.6 cm) diameter rear roller. Other roller configurations optional.	

		FAIRWAY GROOMER, MODELS 03685, 03686 & OPTIONAL BROOMER,™ MODEL 110-4085
<b>TYPE</b>		Rotating blades with optional Broomer™ brush strips that are woven within the blade helix for full width turf contact.
<b>GROOMING WIDTH</b>		20.5" (52.1 cm)
<b>GROOMING RANGE</b>		0-0.25" (0-6.4 mm) below height of cut when engaged, 0-0.25" (0-6.4 mm) above height of cut when disengaged.
<b>BLADES</b>		2.5" (6.4 cm) diameter, 0.042" (1 mm) thick heat treated spring steel blades with 0.5" (12.7 mm) spacing.

		POWERED REAR ROLLER BRUSH, MODEL 03683
<b>TYPE</b>		Rotating, helically woven, stiff bristled brush.
<b>CONTACT POINTS</b>		Tightly woven 11 point contact.
<b>SPIN RATE</b>		Rapid 2000 rpm spin rate.

ACCESSORIES					
Model/Part No.	Description	Model/Part No.	Description	Part No.	Description
03863	8-Blade DPA Cutting Unit	110-4074	Heavy Duty Bedknife	107-3280	Rear Roller Scraper
03864	11-Blade DPA Cutting Unit	03883	Grass Basket Kit	107-2993-03	Wiehle Roller Scraper
108-9072	7" - 5 Blade Reel only	110-9600	High Height of Cut Kit	110-4084	Low Cut Bedknife

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# Reelmaster® 6500-D & 6700-D Specifications\* (continued)

## SPA Cutting Units

		5, 7 AND 11 BLADE SPA CUTTING UNITS, MODELS 03860, 03861 & 03862	
		Reelmaster 6500-D	Reelmaster 6700-D
<b>TYPE</b>		Five 22" (56 cm) width cutting units; fully interchangeable. Front or rear discharge selectable with movable shield.	Seven 22" (56 cm) width cutting units; fully interchangeable. Front or rear discharge selectable with movable shield.
<b>WIDTH OF CUT</b>		96" (244 cm) total.	133" (338 cm) with 7 cutting units, 114.5" (291 cm) with 6 cutting units, or 96" (244 cm) with 5 cutting units.
<b>HOC RANGE</b>		3/8" - 1.75" (9.5-44.5 mm) height of cut range. Recommended use: 5-Blade 1" - 1.75" (25-44 mm); 7-Blade .5" - 1" (12-25 mm); 11-Blade 3/8" - 5/8" (9.5-15 mm).	
<b>REEL CONSTRUCTION</b>		All welded construction. 7" (17.8 cm) diameter reels.	
<b>REEL DRIVE</b>		Reel motors feature quick disconnect for removal or installation onto cutting unit. Cutting units can be driven from either end.	
<b>BEDKNIFE/BEDBAR</b>		Single point adjustment mechanism, .0005" (.0127 mm) adjustment per click.	
<b>CLIP FREQUENCY</b>		.375"-1.25" (9.5-31.8 mm). Reel speed is manually adjustable to maintain proper clip.	
<b>ROLLERS</b>		Front roller: 3" (7.6 cm) diameter Wiehle roller standard. Rear roller: 3" (7.6 cm) diameter Full roller. All rollers use the same heavy duty ball bearings with two conventional single lip seals and Toro labyrinth seal to provide four sealing surfaces to protect the bearings. Optional 3" (7.6 cm) diameter Full roller is available for the front position.	

		GROOMER KIT, MODELS 03810 AND 03811
<b>CUTTER WIDTH</b>		20" (50.8 cm).
<b>DEPTH PENETRATION</b>		.188"-2" (4.8-51 mm) above ground level, at mowing height-of-cut range of .375"-1.75" (9.5-44 mm). Height of Groom (HOG): .188" (4.8 mm) below height of cut when engaged in grass; .25" (6.4 mm) above height of cut when raised out of grass.
<b>CONSTRUCTION</b>		Shaft: fatigue-proof steel hexagon. Blades: heat-treated steel, .042" (1 mm) thick, 2.5" (6.4 cm) diameter, .5" (1.3 cm) spacing between blades.
<b>WEIGHT</b>		15 lbs. (6.8 kg).

ACCESSORIES						
Model No.	Description	Model No.	Description	Model/Part No.	Description	
03860	5-Blade Cutting Unit	30707	Armrest Kit	94-2836	Rear Weight Kit	
03861	7-Blade Cutting Unit	03872	Thatching Reel	85-4750	Hand Held Diagnostic Tool	
03862	11-Blade Cutting Unit	03521	TurfDefender™ Leak Detector Kit	03882	RM 5500/6000 Basket	
				When Using Groomers:	03876	RM 5500/6000 Powered Rear Roller Brush
				107-9518	Grass Basket	
				108-6743	Mounting Kit	

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The Reelmaster 6500-D and 6700-D are manufactured in Tomah, WI ISO 9002 Certified Plant.

