



Reelmaster® 4000-D Specifications*

REELMASTER 4000-D 2WD, MODEL 03706 OR 4WD, MODEL 03707 TRACTION UNITS	
ENGINE	Kubota® liquid-cooled diesel, 4-cylinder, 49 gross hp (37 kW) @ 2,800 RPM, governed to 2,300 RPM. 134 cu. in. (2,197 cm ³) displacement. Pressurized lubrication system with 8.1 U.S. qt. (7.6 liter) capacity. Heavy duty three phase air cleaner. Replaceable spin-on fuel filter/water separator with water in fuel sensor and warning.
RADIATOR/OIL	Rear air intake with full-flow hydraulic oil cooler and agricultural type radiator with 3.7 gallons (14 liter) system capacity with 7-row staggered tube construction. Two speed fan.
FUEL SYSTEM	Replaceable spin-on fuel filter/water separator has built-in water sensor and console warning. Fuel capacity: 17 gallons (65 liters) diesel fuel. 2008 models Biodiesel-Ready for use up to B-20 (20% biodiesel and 80% petrol blend).
TIRES/WHEELS	Front tires: (2) 31 x 13.50-15, 4-ply high flotation. Rear tires: (2) 23 x 10.50-12, 6-ply, high flotation turf tires.
BRAKES	Hand operated twin disc brakes ahead of gear reductions provide positive parking and emergency braking. Dynamic braking through closed-loop hydrostatic drive.
STEERING	Automotive type full power steering.
GROUND SPEED	Forward speed of 0-12 mph (19.2 km/h) in 2WD, and 0-8.5 mph (13.7 km/h) in 4WD. Reverse speed of 0-4 mph (0-6.4 km/h).
TRACTION DRIVE	2WD: Closed-loop hydrostatic system driving industrial double planetary gear reduction front wheel drives. 4WD: Closed-loop hydrostatic system driving industrial double planetary gear reduction front wheel drives in parallel with two high torque hydraulic rear wheel motors. Solenoid-operated selector valve.
CONTROLS	Foot operated: forward/reverse traction pedal and front cutting unit latch release. Adjustable traction pedal stop. Hand operated: key ignition switch, throttle, reel speed control, cutting unit raise/lower controls, cutting unit pto lever, parking brake lever. Hydraulic cutting unit counterbalancing control under control panel. 2WD/4WD selector switch on 4WD model only.
GAUGES & DIAGNOSTICS	Gauges: Fuel level and hour meter. Warning systems with light and alarm: low hydraulic oil level, hydraulic filter change required, low voltage indicator, high reservoir oil temperature, low engine oil pressure, water in the fuel, high engine temperature (override button allows unit to be moved short distances), and air cleaner restriction. Engine shutdown protection provided for low hydraulic oil level and high engine temperature (with over-ride button).
SEAT	Two piece deluxe seat with armrests, adjustable backrest angle and suspension adjustable for operator's weight.
OVERALL DIMENSIONS	Wheel Tread: 53" (134.6 cm). Overall Height: 56" (142.2 cm), 82" (208.3 cm) with ROPS. Wheel Base: 57" (144.8 cm). Transport Width: 91.5" (232.4 cm). Overall Length: 111" (281.9 cm). Approx. Weight: 4,360 lbs. (1,979.4 kg).
CERTIFICATION	This product complies with the American National Standards Institute (ANSI B71-4 – 1999) and European Community specifications (CE Certified). 4-post ROPS meets OSHA and SAE certification requirements, standard on 4WD, available on 2WD models.
WARRANTY	Two-year limited warranty. Refer to the Operator's Manual for further details.

HYDRAULIC SYSTEM	
CUTTING UNIT DRIVE SYSTEM	High efficiency fixed displacement pump. Filtration and cooling of the full cutting circuit flow for cool running, long life. Flow control system maintains constant reel speed regardless of cutting load. Reel speed is adjustable to permit matching clip length to ground speed while maintaining full engine power availability. Backlap capability. High torque toothed belt on reel drive.
CUTTING UNIT LIFT SYSTEM	Hydraulic lift system provides for simultaneous or independent lift control. Lift valve has automatic float position feature. Center three cutting units operate together; two wing units operate individually. Reels automatically shut off when raised. Mechanical transport locks may be released without leaving operator's seat. Single acting lift cylinders with air bleed screws.
HYDRAULIC OIL RESERVOIR	11 gallon (42 liter) capacity with large diameter fill cap with stainless steel strainer. Sight glass level indicator. Remote-mounted 40 micron replaceable breather element. Water collector/drain fitting. 125 micron suction screen. Internal baffle system. Oil level warning protection switch.
HYDRAULIC FITTINGS	Hydraulic system utilizes O-ring face seals at all connections.
HYDRAULIC FILTRATION	A single large spin-on hydraulic filter element. A filter change warning light is on the front console.

*Specifications and design subject to change without notice.





Reelmaster® 4000-D Specifications* (continued)

REELMASTER 5, 7 OR 11 BLADE CUTTING UNITS													
TYPE OF CUTTER	Five 30" (76 cm) wide hydraulically driven cutting units. Heavy duty welded steel cutting unit frame with 8" (20.3 cm) diameter welded steel reels in self aligning bearings. Reel adjusted to bedknife with precision screw adjustment on ends of reel.												
CUTTING UNIT CONSTRUCTION	Welded steel frame, welded reel with heavy duty, self aligning bearings. Precision machined cast iron bearing housings support reel. Bedbar and rear roller are isolation-mounted in rubber bushings. Adjustable deflector shields standard.												
REEL CONFIGURATION	8" (20.3 cm) diameter reels. 5, 7 or 11 blade reels available. Heavy duty, all welded construction with induction hardened alloy steel blades.												
CUTTING UNIT SUSPENSION	Patented cutting unit head using heavy duty U-joint provides precision mounting; choice of 1-axis or 2-axis cutting unit flotation. The fixed head, 1-axis flotation is suitable where ground contours are minimal. High strength forged alloy steel pivot with sealed needle bearings for all direction free flotation. Equal length lift arms act uniformly on all five cutting units. Counterbalance force is adjustable to match the cutting unit options installed and local conditions. Plated lift arm pivot and cylinder pins.												
BEDKNIFE/BEDBAR	Replaceable single edged high carbon alloy steel bedknife mounted to the bedbar with screws. Precision machined bedknife and bedbar.												
REEL TO BEDKNIFE ADJUSTMENT	Reel is adjusted to bedknife with precision screw-type adjusters. Stainless steel and sintered bronze components.												
REAR ROLLER	3.5" (9 cm) diameter, heavy duty rear roller with bearings and seals. Roller bearings are greased through protected fittings on shaft ends. Steel roller has greaseable tapered roller bearings with double lip seal. Zinc plate shaft for long, trouble-free service in corrosive/high moisture environments. Optional Wiehle or full front rollers for floating cutting units. Side Skid Kit available for fixed position cutting units.												
HEIGHT OF CUT ADJUSTMENT	Heavy duty casting supports on either end of roller are adjustable for different HOC ranges. Supports locked in place on stainless steel shaft with two self centering steel nuts.												
HEIGHT OF CUT & CLIP FREQUENCY	<table border="1"> <thead> <tr> <th></th> <th>5 Blade Cutting Unit</th> <th>7 Blade Cutting Unit</th> <th>11 Blade Cutting Unit</th> </tr> </thead> <tbody> <tr> <td>Recommended Height of Cut range:</td> <td>1" - 4" (25 - 102 mm)</td> <td>.5" - 2" (12.7 - 51 mm)</td> <td>.375" - 1" (9.5 - 25 mm)</td> </tr> <tr> <td>Clip Frequency (adjustable):</td> <td>0.176" clip per mph (4.47 mm per 1.609 km/h)</td> <td>0.126" clip per mph (3.2 mm per 1.609 km/h)</td> <td>0.080" clip per mph (2.03 mm per 1.609 km/h)</td> </tr> </tbody> </table> <p>Multiply clip by operating speed. All @ 1200 rpm maximum reel speed.</p>		5 Blade Cutting Unit	7 Blade Cutting Unit	11 Blade Cutting Unit	Recommended Height of Cut range:	1" - 4" (25 - 102 mm)	.5" - 2" (12.7 - 51 mm)	.375" - 1" (9.5 - 25 mm)	Clip Frequency (adjustable):	0.176" clip per mph (4.47 mm per 1.609 km/h)	0.126" clip per mph (3.2 mm per 1.609 km/h)	0.080" clip per mph (2.03 mm per 1.609 km/h)
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CUTTING CAPACITY	Up to 10.5 acres (4.25 hectares) per hour maximum at 7.5 mph (12 km/h); assumes no overlap or reduction due to turns, stops, or adverse conditions.												

THATCHING REELS	
THATCHING UNITS	Model 03730; left, 2 required per machine. Model 03732; right, 3 required per machine. Skids are included with each unit. The fixed head mount kit is recommended to facilitate the mounting of thatching reels.
THATCHING WIDTH	Effective width per unit 27" (68.5 cm); overall width of set of 5 units 134" (340 cm).
PENETRATION DEPTH	Infinitely variable through rear roller up to a maximum depth of 1.12" (28 mm).
REEL CONSTRUCTION	Reel diameter: 9" (23 cm). Hardened steel blades are .105" (2.7 mm) thick. Spacing between blades 1.25" (31.8 mm).

REELMASTER 4000-D ACCESSORY MATRIX							
	5 Blade Cutting Units Model 03752/L Model 03753/R	7 Blade Cutting Units Model 03723/L Model 03724/R	11 Blade Cutting Units Model 03725/L Model 03726/R	Thatching Reels Model 03730/L Model 03732/R	Cruise Control Kit Model 03770	4-Post Roll Over Protective Structure	Service Manual 94-817-SL
2 Wheel Drive Traction Unit, Model 03706	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.
4 Wheel Drive Traction Unit, Model 03707	Opt.	Opt.	Opt.	Opt.	Opt.	Std.	-
Flotation Mounting Kit (5), Model 03760	Opt.	Opt.	Opt.	Opt.	-	-	-
Wiehle Front Roller Kit (5), Model 03740	Opt.	Std.	Std.	-	-	-	-
Rear Roller Scraper Kit (1), P/N 59-6090	Opt.	Opt.	Opt.	-	-	-	-
Front Roller Scraper Kit (1), P/N 62-6220	Opt.	Opt.	Opt.	-	-	-	-

*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.

The Reelmaster 4000-D is manufactured in Tomah, WI ISO 9002 Certified Plant.

