

**TORO**

# Reelmaster® 5010-H

## Hybrid Reel Mower

## A TRUE “GAME CHANGING” HYBRID REEL MOWER

The Reelmaster 5010-H provides all the power required from an efficient, smart dual power system. The world's first true hybrid reel mower, the 5010-H's patented PowerMatch™ technology smartly interprets power needs in real time, drawing variable, independent energy levels from the efficient diesel engine and battery pack to match conditions on the ground. Electric motors on the cutting units improve performance, reduce power requirements and virtually eliminate leak points. The result is increased fuel efficiency, quiet and worry-free operation, reduced maintenance, and unmatched quality of cut.



**SMART POWER™** EdgeSeries™ Reels

## F E A T U R E S

- **Specifications**

Tier 4 Compliant 24.8 hp (18.5 kW) Kubota® diesel engine and 48-volt Absorbed Glass Mat (AGM) battery pack.

- **PowerMatch™**

Matches machine power output to what the conditions require. When hilly terrain and challenging mowing require more power than the engine can provide, the Reelmaster 5010-H automatically redirects the cutting unit load from the engine to the battery pack, giving the machine the equivalent of over 40 horsepower (29.8 kW).

- **Fuel Savings**

Save an average of 20% in fuel consumption over comparably equipped mowers.

- **Smart Power®**

Automatically adjusts the mower's ground speed for the terrain and cutting conditions to protect the electric reel drive components and maintain desired reel speed, taking the guesswork out of a consistent cut.

- **Electronic Cruise Control**

Easily keep a consistent speed and reduce fatigue while mowing large areas.

- **Proven Platform**

Durability, performance, comfort, and serviceability come standard.

- **InfoCenter™**

The onboard LCD display provides system information, alerts, service reminders, diagnostics, and more.

- **Reel Control (Exclusive)**

After desired clip rate is easily set in the InfoCenter, the 5010-H's reel speed automatically and continuously adjusts to ground speed, ensuring consistent cutting performance.



REELMASTER 5010-H, MODEL 03950	
<b>POWER SYSTEM</b>	Tier 4 compliant 24.8 hp (18.5 kW) Kubota® 3-cylinder, liquid-cooled, diesel engine. Four 12V Absorbed Glass Mat (AGM), sealed, maintenance-free lead carbon batteries.
<b>LUBRICATION</b>	Pressurised lubrication system with 3.5 quart (3.3 litre) capacity.
<b>FUEL FILTER</b>	Replaceable spin-on fuel filter/water separator.
<b>COOLING</b>	Rear mounted radiator with industrial tube and fin construction, 6 fins per inch, 5.5 quart (5.2 litre) system capacity.
<b>FUEL TANK CAPACITY</b>	14 gallons (53 litres), diesel fuel.
<b>TRACTION DRIVE</b>	Front drive wheels powered in a parallel circuit by an electronically controlled hydrostatic pump with individual wheel motors. All-wheel drive optional with CrossTrax® All-Wheel Drive system, which transfers power from the front wheels to the opposite rear wheels via independent rear wheel motors.
<b>GROUND SPEED</b>	0-10 mph (0-16 km/h) forward transport; 0-8 mph (0-12.8 km/h) mow; 0-4 mph (0-6.4 km/h) reverse mow; 0-5 mph (0-8 km/h) reverse transport.
<b>TYRES</b>	Front traction tyres: 26.5 x 14-12; Rear steer tyres: 20 x 12-10.
<b>MAIN FRAME</b>	High strength steel frame with welded construction.
<b>BRAKES</b>	Dynamic braking through hydrostatic traction drive. Parking brake is activated when engine is turned off, when operator leaves seat, or by rocker switch.
<b>STEERING</b>	Rear wheel, power steering with an independent hydraulic pump and circuit.
<b>GAUGES</b>	InfoCenter™ onboard LCD display shows gauges, alerts, faults, service reminders, electrical systems diagnostics, indicates fuel level, coolant temp., low oil pressure, alternator, engine hours, engine rpm, voltage, reel speed, backlap speed, glow indicator, lift/lower indicator.
<b>CONTROLS</b>	Single foot-operated traction pedal. Hand-operated key ignition switch, switch-operated throttle, cutting unit raise/lower joystick, cutting unit engage switch, parking brake switch, cruise control switch, and LED headlight switch, all positioned on right hand pivoting control console.
<b>ELECTRICAL</b>	Heavy duty 12-volt battery, 570 CCA, 40 amp alternator. Electronic control unit is a microprocessor based, solid state control unit with diagnostic capabilities. Traction pedal, parking brake, operator presence in seat, and cutting unit engage/disengage safety interlock switches.
<b>REEL DRIVE</b>	Five independent reel motors, each individually fused. Reel speeds are electronically adjustable in nine incremental settings. 5010-H exclusive feature, reel speed continuously adjusts to ground speed, keeping desired clip rate consistent. On-board backlapping is standard.
<b>SEAT</b>	Deluxe high back suspension seat with fore, aft, height and weight adjustment.
<b>DIMENSIONS</b>	Height: 63" (160 cm) to seat, 85.5" (217.2 cm) to ROPS. Length: 111" (281.9 cm) Wheelbase: 60" (152.4 cm) Operational Width: 116" (294.6 cm) Transport Width: 92" (233.7 cm).
<b>WEIGHT</b>	With 7" cutting units: 2WD – 2,907 lbs. (1,319 kg), 4WD – 2,965 lbs. (1,345 kg).
<b>SAFETY / CERTIFICATION</b>	ROPS Standard. Complies with ANSI B71.4, ISO EN 5395 and CE requirements
<b>WARRANTY</b>	Two-year limited warranty. Refer to the Operator's Manual for further details.

<b>CUTTING UNITS:</b> 7" 8-BLADE, RADIAL: 03638    7" 8-BLADE, FORWARD-SWEPT: 03639 7" 11-BLADE FORWARD-SWEPT: 03641    7" 11-BLADE RADIAL: 03643	
<b>TYPE</b>	Five electrically driven, DPA cutting units with low-drag seal and bearing package. Frame precision manufactured, die-cast aluminum for increased strength, simple click adjustment maintenance.
<b>SIZE</b>	22" (56 cm) wide, 7" (17.8 cm) diameter.
<b>WIDTH OF CUT</b>	100" (254 cm)
<b>HOC RANGE</b>	0.25" - 1.5" (6.4 - 38.1 mm)
<b>REEL SPEED</b>	Electronically controlled, variable reel speed for optimal clip frequency and independently controlled backlap speed.
<b>BEDKNIFE ADJUSTMENT</b>	Precision machined cutting units maintain levelness and hold adjustments. Dual Precision Adjustment (DPA) allows quick bedknife to reel adjustment.
<b>ROLLERS</b>	Wihle front roller and standard rear roller included. Optional front full and shoulder rollers, and longer rear rollers available.

\*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.

CUTTING UNITS
7" (17.8 cm) Cutting Unit Finishing Kit
7" (17.8 cm) 8-Blade DPA, RR Cutting Unit
7" (17.8 cm) 8-Blade DPA, FSR Cutting Unit
7" (17.8 cm) 11-Blade DPA, FSR Cutting Unit
7" (17.8 cm) 11-Blade DPA, RR Cutting Unit
7" (17.8 cm) Verticutter Cutting Unit

TRACTION UNIT ACCESSORIES
CrossTrax All-Wheel Drive Kit
CrossTrax All-Wheel Drive Finishing Kit
Air-ride Seat Suspension
Standard Flexible Grass Basket
Compact Flexible Grass Basket
Flex Groomer Rod Kit
Universal Sunshade - White
Universal Sunshade - Red
Switch Panel
Operator Cooling Fan
Worklights
Beacon
Wire Harness

7" (17.8 cm) CUTTING UNIT ACCESSORIES
Universal Groomer
22" (56 cm) Groomer Cartridge
Grooming Brush Cartridge
Universal Only Weight Kit
Powered Rear Roller Brush for Groomers
Universal w/RRB Weight Kit
Powered Rear Roller Brush Only
Weight for Cutting Units Without Attachments

BEDKNIFE OPTIONS
EdgeMax™
Standard
EdgeMax Low Cut
Low Cut
EdgeMax Extended Low Cut
Extended Low Cut
Heavy Duty

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The Reelmaster 5010-H is manufactured in Tomah, WI ISO 9002 Certified Plant.



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**Count on it.**