

# Lineup



Gasoline engine model



Diesel engine model

# Attachment



## Vibration Roller Unit

Application: Three individual 22" roller units. Follow your greens' contours easily. Roll straight stripes that match your mowing width. Quick to use and to transport from green to green. Vibrate-in topdressing without bridging over coring holes.  
 • Weight: 63.93lb(29kg)



## Thatching Reel Unit

Application: Increases Green speed. Removes a lot of Thatch whilst leaving a clean finish. Long lasting tungsten tipped blades. Quick and easy to change on the LM315GC.  
 • Work width: 56.69in(144cm)  
 • Work depth: Maximum of 0.079in(2mm)



## Spiker Unit

Application: Greens and tees, allows quick and efficient aeration for improved roof development.  
 • Work depth: Maximum of 1.57in(40mm)



## Rotating Brush Unit

Application: Picking up of thatch, debris, etc. A spiral brush picks up thatch, debris, etc. while improving the green surface at the same time.



## Brush unit for brushing green

Application: A flat brush system that attach to the LM315GC, brilliant for brushing in top-dressing. Also fantastic for removing/spreading out worm casts on both greens and tee areas.

\*The model shown is equipped with optional features.

# Specification



Model	Gasoline			Diesel					
	LM315GC (for greens)	LM315GC (for tees)	LM315GC (for fields)	LM315GC (for greens)	LM315GC (for tees)	LM315GC (for fields)			
Dimensions	Total length								
	94.09 in   239 cm								
	Total width								
67.72 in   172 cm									
Total height/Steering wheel									
51.97 - 55.51 in   132-141 cm									
Weight	2WD (with ROPS and empty fuel tank)								
	1316.14 lb   597 kg								
	3WD (with ROPS and empty fuel tank)								
	1371.25 lb   622 kg								
Grass catcher (for one machine)									
26.46 lb   12 kg									
Groomer (for one machine)									
22.05 lb   10 kg									
Minimum turning radius									
354.94 in   161 cm									
Engine	Model								
	Vanguard 356447			Kubota D722-E4B					
	Type								
	Air-cooled 4-cycle gasoline engine			Vertical water-cooled 4-cycle diesel engine					
Total displacement									
34.78 cu.in.   570 cm <sup>3</sup> (0.57 L)			43.87 cu.in.   719 cm <sup>3</sup> (0.719 L)						
Maximum output									
13.4 kW (18.2 PS) / 3,600 rpm			-						
Rated output									
-			12.4 kW (16.9 PS) / 3,000 rpm						
Fuel tank capacity									
Gasoline 5.28 U.S.gal.   Gasoline 20.0 dm <sup>3</sup> (20.0 L)			Diesel 5.28 U.S.gal.   Diesel 20.0 dm <sup>3</sup> (20.0 L)						
Operating width (Mowing width)									
59.84 in   152 cm			59.84 in   152 cm						
Operating height (Mowing height)									
0.059 - 0.709 in   1.5 - 18.0 mm		0.236 - 0.787 in   6.0 - 20.0 mm		0.059 - 0.709 in   1.5 - 18.0 mm		0.236 - 0.787 in   6.0 - 20.0 mm		0.394 - 1.575 in   10.0 - 40.0 mm	
Blades									
9 or 11		7		7		9 or 11		7	
Drive									
HST 2WD [3WD (2WD/3WD selectable)]			HST 2WD [3WD (2WD/3WD selectable)]						
Speed (HST)	Forward								
	0 - 9.32 mph   0 - 15.0 km/h			0 - 9.32 mph   0 - 15.0 km/h					
Reverse									
0 - 3.73 mph   0 - 6.0 km/h			0 - 3.73 mph   0 - 6.0 km/h						
Efficiency									
1.8 acres/hour   7,296 m <sup>2</sup> /h (6.0 km/h x mowing width x 0.8)			1.8 acres/hour   7,296 m <sup>2</sup> /h (6.0 km/h x mowing width x 0.8)						
Maximum inclination for operation									
15 degrees			15 degrees						
Tire size	Front wheel								
	Smooth 18x9.50-8 2P		Pillow Dia 18x8.50-8 4P		Smooth 18x9.50-8 2P		Smooth 18x9.50-8 2P		
Rear wheel									
Smooth 18x9.50-8 2P		Pillow Dia 18x8.50-8 4P		Smooth 18x9.50-8 2P		Pillow Dia 18x8.50-8 4P		Smooth 18x9.50-8 2P	

The factory default maximum engine rpm is 3,000 rpm. [US]

**⚠ Safety notes**  
 ● Read the Owner's Operating Manual and other training material carefully. Be familiar with the controls, safety signs and the proper use of equipment before operation.

**♥ Assurance inspection**  
 ● Regular inspection of the machine ensures long-lasting superior performance and safety.  
 \* There are parts of machine prone to wear and deterioration from long periods of use. Please consult with local dealer or distributor for proper inspection and maintenance schedule.



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- Colors in print may slightly vary from actual colors.
- Catalog No: LM315GC-CA--USZ/23M-02-keywest

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# Riding Greens Mower LM315GC



\*The model shown is equipped with optional features.





The LM315GC has the highest cutting quality in the industry for ride-on green mowers. The LM315 is equipped with sophisticated sharp reel cutters, produced from an original special steel, made exquisitely by proven craftsmanship and cutting-edge manufacturing technology. This ride-on green mower is capable of achieving a fine cut comparable to the quality of cut produced by the walk behind green mower due to the unique design concept. The mower is equipped with a reel rotation speed (high speed, low speed and backlapping) switching mechanism to easily change the FOC with just one action. The LM315 has many variations to set the HOC and blade angle allowing the operator to set the optimal mowing angle to match the HOC and turf condition. In addition, the reel is powered by our original wire cable system that eliminates the risk of hydraulic oil leaking from the cutting unit on to the greens. The mower will automatically switch to 3WD for excellent climbing and turning performance to give you the best possible cut in any location. The LM315GC is available in a gasoline and diesel engine models. The LM315 product lineup includes a green mower, tee mower and field mower which offer a fine cut on any type of sports field to achieve the highest level of cutting performance.

Riding Greens Mower **LM315GC**

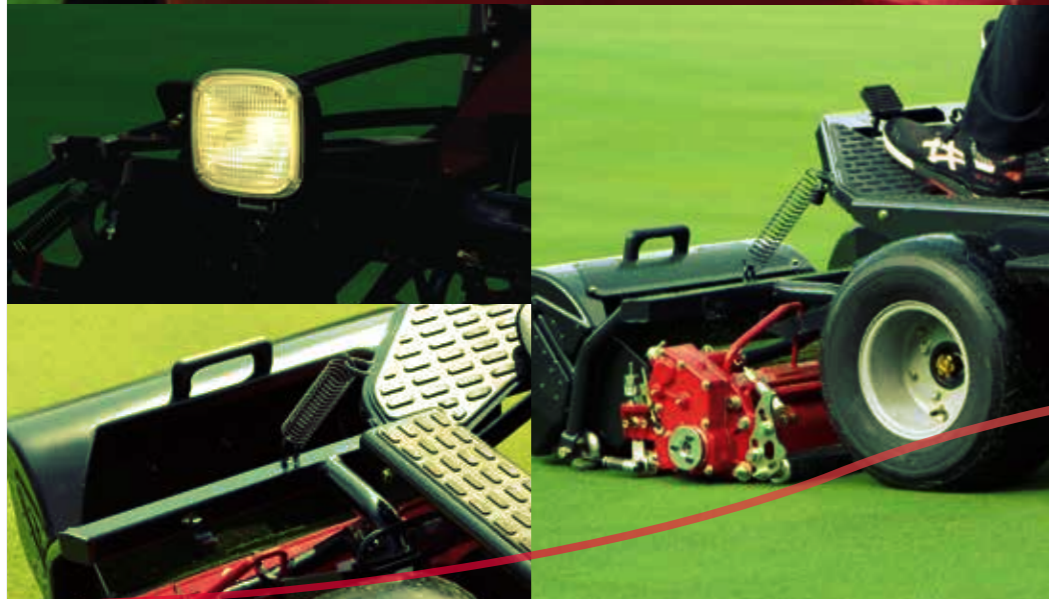
Quality on Demand

\*The model shown is the diesel engine model/equipped with optional features.





Slim body design  
with molded in storage compartments.



Style and performance.  
Stylish design  
with **the best cutting quality**

*Riding Greens Mower*  
**LM315GC**

\*The model shown is the diesel engine model/equipped with optional features.



# LM315GC features



## Razor sharp reel cutter

Baroness' reel cutters are made from an original special steel to achieve the hardness and tenacity of Japanese swords. The hardness of the reel cutter and bed knife is designed to avoid countering, and the precise mating surface between cutters contributes to increased durability. The Baroness reel cutter is built using highly skilled craftsmanship and the latest manufacturing technologies in a 16 step process to achieve a sharp and beautiful cut that can finish greens quickly and smoothly.

## Reel Rotation (High Speed / Low Speed) Switching Mechanism

The reel's rotational speed (high and low speeds) can be easily switched by sliding the lever on the gear box. The clipping pitch can also be adjusted to conform to the type of grass or condition of the green.

## Adjustable Cutting Height and Mower Angle

Optional adjustments for HOC and angle settings. Ability to change the mowing performance and quality of cut when using an identical mowing height. The posture of the mower can be changed to counteract wear on the reel cutter.

## Flexible Wire

Utilizes our original wire cable system. The reel rotation is powered by the flexible wire and eliminates the risk of severely damaging the turf due to leaking hydraulic oil.

## 3WD Automatic Switching Mechanism

The 3WD specifications allocates power to the rear wheels when power is most needed to climb hills. When operating, the LM315GC will automatically switch to 3WD without changing the work speed. While turning on the LM315GC, there is no worry of damaging the turf due to the front wheels slipping because the rear wheel will assist by rotating into the turning direction reducing damage to the turf.

## Simple maintenance

Rear gull wing opening ensures easy access and room for maintenance. Disassembling the mower unit is simple, reducing the maintenance time when changing attachments or when replacing parts each time it is required.

*Riding Greens Mower*  
**LM315GC**

# Cutting control of LM315GC

## B-ACT

BARONESS Aggression Cutting Technology

**B-ACT gives the world's superintendents unique optional settings to adjust the aggressiveness of their mowers to achieve their ideal conditions.**

The cutting performance of the reel mower changes greatly depending on the positional relationship between the reel and the bed knife. The bedknife blade attitude and the distance of the bedknife from the reel centerline defines the stance, Aggressive or Less Aggressive.

Baroness reel mowers are equipped with an adjustment mechanism to achieve variable mowing performances at the same HOC setting. We call this, B-ACT.

All around the world golf courses deal with many different conditions and turf. On every golf course, superintendents and golfers have individual ideas of what are the ideal playing surfaces and turf conditions. Therefore, BARONESS provides options to customize an optimal cutting performance for every customers' needs and wants with B-ACT.

### BARONESS' philosophy

The Baroness standard is based on an aggressive cutting stance that provides the best cut for the turf. Cutting with an aggressive stance positions the grass vertically when cutting (shearing), reducing the growth of variable and larger grass leaves, while promoting healthy new shoots of grass that are more uniform in leaf size.

A less aggressive stance can be beneficial when turf conditions are softer and the grass is not tightly compacted. In such cases a less aggressive stance can help protect the appearance of your turf.

However cutting only with the less aggressive stance, does not allow your turf to reach its optimal condition.

Aggressive? Less Aggressive?

Before cutting any grass, you should always check the conditions of the turf and adjust your cutting stance to better fit your needs. Baroness' goal is to assist in creating the best turf and playing conditions possible.

BARONESS believes that a beautiful, healthy green with a truer ball roll and good surface is created from conditions where the grass is tightly compacted, there is the right number of grass shoots and the shoots grow evenly and straight up.



## B-ACT of LM315GC

LM315GC is equipped with an adjustment mechanism to achieve variable mowing performances at the same HOC setting by adjusting the position of the rear roller.

### Aggressive cutting stance

#### Aggressive

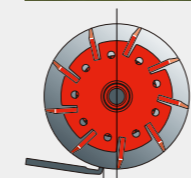
The angle or attitude of the bedknife is more pronounced and the distance of the bedknife is farther from the reel centerline. This more aggressive blade path provides the healthiest cleanest cut for the grass while creating the best visual and playing conditions. The adverse side of this aggressive setting is that any variations in conditions can be visually noticeable and at times undesirable.

### Less Aggressive cutting stance

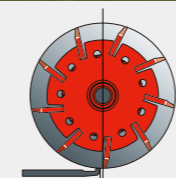
#### Less Aggressive

The distance of the bedknife to the reel centerline is positioned closer and the angle or attitude of the bedknife is decreased. This stance can visually mask imperfections of the turf but also allows for more stragglers or uneven cut grass.

**BARONESS MODELS WITH B-ACT** LM18.56.66GC, LM101, LM331, LM551B



Aggressive cutting stance



Less Aggressive cutting stance

# Frequency of Clip (FOC)

The LM315GC allows you to set the FOC to fit your unique turf conditions. The Baroness riding greens mower is equipped standard with a multi-speed transmission, where the operator can easily change the clip frequency with a switch of a lever. Combining the easy to adjust high / low clip frequency and the option to choose from 7, 9 or 11 blade reels, the desired FOC can be achieved, assuring you a consistent quality of cut.

BARONESS Riding Greens Mower FOC (Clip)

Model	Riding Mower			
	LM315GC			
Engine rpms	3,000			
Reel rpms	High Clip		Low Clip	
	1,874		1,218	
Operating speed(mph   km/h )	3.73   6.0	3.11   5.0	3.73   6.0	3.11   5.0
11-Reel Blades FOC(in/cut   mm/cut)	0.193   4.9	0.157   4.0	0.295   7.5	0.244   6.2
9-Reel Blades FOC(in/cut   mm/cut)	0.232   5.9	0.193   4.9	0.358   9.1	0.299   7.6
7-Reel Blades FOC(in/cut   mm/cut)	0.299   7.6	0.252   6.4	0.461   11.7	0.386   9.8

# LM315GC options

Optional Attachments and Kits



## Groomer, De-thatcher and Rotary brush

All optional attachments are bi-directional. Choose forward or reverse direction with a simple move of a lever.



### Groomer

Our groomer improves the turf's condition by combing and standing up laid-down grass to create a more consistent cut. The recommended attachment direction is forward.



### De-thatcher

Our De-thatcher aggressively removes thatch to help improve water penetration and air circulation. The recommended attachment direction is reverse.



### Rotary brush

Another grooming tool to help improve with turf maintenance. This is our most efficient tool when top-dressing. In reverse direction, brushes push sand away from the reel and back on to the greens. These options can be operated in either forward or reverse direction according to the intended use.



## Reel cutter

The reel's incredibly sharp blades and our original micron cutting technology assure a precision and uniform cut. Our reels are available in 7, 9, and 11 blades.



## Front Roller (Grooved or Smooth)

Select the optimal roller according to your preference or seasons conditions.



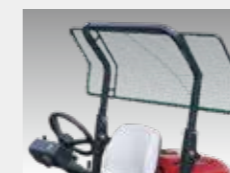
## Split Roller Kit

Split rollers are available for the front and rear cutting units. The front split roller is a made up of 3 segmented rollers and the rear split roller consists of 2 segmented rollers. Each segment of the split rollers spin smoothly and independently to ensure smooth steering of the cutting units, especially when mowing the perimeter and /or clean-up pass.



## CR brush

CR brush keeps the rear roller from building up debris enabling a consistent height of cut.



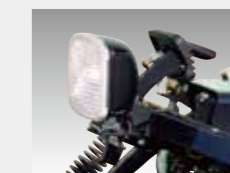
## Protective net

Our protective net attaches behind the operator's seat to the ROPS. Protecting the rear of the operator from errand golf balls.



## Front wheel weight kit

Attaching weights to the front wheel helps improve stability and climbing ability.



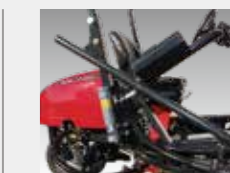
## Light

To assist and improve operator visibility in the early mornings or after sunset. Halogen light and LED light options available.



## PD tires

Optional treaded PD tire for better traction and drive power.



## Swisher holder/Broom holder

Optional Swisher or Broom holder is available. Swisher pole or Broom can be stored on the LM315GC for easy transport and use. Select from Swisher pole (long pipe) or for Broom (short pipe).