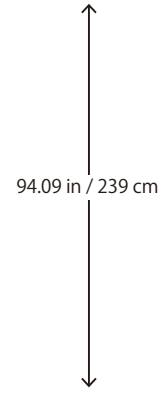


# Specifications

\*The model shown is equipped with optional features.

**BARONESS.**  
Quality on Demand

BARONESS is the global brand of Kyo-eisha Co., Ltd.



←115.75 in / 294cm (During transport 86.61 in / 220cm)→

←116.14 in / 295 cm→

<b>Model</b>		<b>LM551A</b>			
Mower unit type		22 in			
Dimensions	Total length	116.14 in	295 cm		
	Total width	During operation	115.75 in		
		During transport	86.61 in		
Total height	Roof	94.09 in	239 cm		
Weight	Machine (empty fuel tank)	LH52	with Groomer, CR brush, ROPS, Light and Ball proof net without Grass catcher	3,238.59 lb	1,469 kg
		LH62	with Groomer, CR brush, ROPS, Light and Ball proof net without Grass catcher	3,439.21 lb	1,560 kg
		LS62	with CR brush, ROPS, Light and Ball proof net without Grass catcher	3,304.73 lb	1,499 kg
	Grass catcher (for one machine)		10.14 lb	4.6 kg	
Minimum turning radius		Front wheel (outer wheel) outside	120.47 in	306 cm	
Engine	Model		Kubota V1505T-E4B		
	Type		Vertical water-cooled 4-cycle diesel engine		
	Total displacement		91.40 cu.in.	1,498 cm <sup>3</sup> (1.498 L)	
	Maximum output		33.0kW(44.9PS)/3,000rpm		
Fuel tank capacity		Diesel 13.47 U.S.gals	Diesel 51.0 dm <sup>3</sup> (51 L)		
Operating width (Mowing width)		100.00 in		254 cm	
Operating height (Mowing height)	LH52	0.197 - 0.787 in		5.0 - 20.0 mm	
	LH62	0.315 - 1.772 in		8.0 - 45.0 mm	
	LS62	0.394 - 1.811 in		10.0 - 46.0 mm	
Drive	Traveling	HST (Full time 4WD)			
Speed (HST)	Forward	0 - 9.94 mph	0~16.0 km/h		
	Reverse	0 - 4.97 mph	0~8.0 km/h		
Efficiency		6.03 acres/hour (7.46 mph x mowing width x 0.8)	24,384 m <sup>2</sup> /h (12.0 km/h x mowing width x 0.8)		

\* The factory default maximum engine rpm is 3,100 rpm.

### ⚠ 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.

Your distributor or dealer

**株式会社 共栄社**

**KYOEISHA CO., LTD.**

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- Content and designs provided here are subject to change without notice.
- Colors in print may slightly vary from actual colors.
- Catalog No: LM551A-US/19A-0600-keywest





The LM551 is designed to produce a high-quality cut for any golf course around the world. Equipped with a 22-inch standard reel along with optional cutting units and accessories, Baroness's new midweight 5-unit fairway mower allows you to create the best configuration to meet your turf conditions. The forward and backward slide function of the rear cutting units increases contour following while minimizing uncut turf. The LM551's cutting units have an industry leading range of motion combined with the unique tension support and down pressure features, allowing the machine to consistently and accurately follow the most severe undulating surfaces. The LM551 has three options of cutting units that can be fitted to better match the machine to your course. Two high grade cutting units that can be fitted with a variable optional accessories; the LH52 unit, which has a 5-inch diameter reel, or the LH62 unit with a 6.4-inch diameter reel. The other option is the lighter 6.4-inch reel cutting unit, the LS62. Each cutting unit has the option of 9 or 7 blade reels and can be fitted with a groomer, power brush, front roller scraper and newly-designed grass catchers. All the units come with the Baroness reel cutter, known for its precise engineering and sharp edge, made of special steel and produced by highly skilled craftsmen and cutting edge manufacturing technology. Equipped with the BACCS system, which makes the clip pitch uniform, the LM551 enables any operator to produce the same high-quality cut. With a variety of cutting units available and improved cutting technology, Baroness's new fairway mower, the LM551 helps superintendents create their ideal turf quality on any fairway.



Fairway Mower  
**LM551**



# Heart of BARONESS

In developing its reel cutter, Baroness has extensively researched how to cleanly cut "Zoysia Japonica" grass, which is found predominantly in Japan. Zoysia has a high tolerance for humidity and heat with a strong fibrous component. To cleanly cut this grass, the cutting blade needs to be sharp and strong. The Baroness reel's reputation for being sharp and strong is based on its success in these conditions.

**For golf courses, regardless of the type of grass, the ability to cut grass cleanly and beautifully is especially important.**

The quality of blade is obviously important but equally critical is the relationship between the reel cutter and bedknife. Baroness designs the angle and distance of the reel cutter and bedknife based on its own theory in order to maximize the blade's performance.

**The Baroness reel's high quality of cut stems from the casting technique traditionally used for Japanese sword making.**

As a result, the blade is strong and malleable which leads to the best cutting quality. Combining Japan's traditional methods with innovative techniques is the uniqueness of Baroness engineering.

## What the Baroness reels offer.

### Consistent high quality of cut due to long-lasting sharpness . . .

#### Benefits of the Baroness blade:

- A clean consistent cut is maintained from the first hole cut in the beginning of the day to the last hole cut.
- The sharpness of the reel blade shears the grass cleanly and provides healthy cut grass and a beautiful after cut even when mowing fibrous grass.
- Frequent grinding is unnecessary due to the extreme hardness of our steel.
- Easy on-board back lapping setting saves service time.

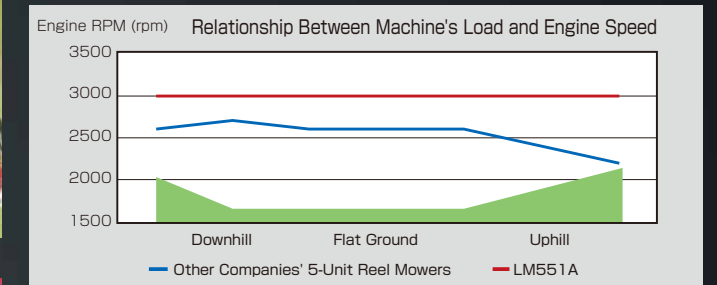
# BACCS

## BARONESS Advance Cruise Control System

## BARONESS Advance Clip Control System

The maintenance of a golf course relies on the wealth of experience of those who maintain the course. Nevertheless, it is also important that all staff should be able to optimally perform their work regardless of level of experience.

The BACCS system on the LM551 is the exact technology that meets this demand.



This technology keeps the engine speed constant even when the machine mows an undulating area or experiences an extra load while mowing.

Thus, any operator can mow at the same speed and the same clip pitch by setting an operational speed using the pedal stopper.

LH62/LS62			LH52		
TURNS	POSITION	REEL SPEED (rpm)	TURNS	POSITION	REEL SPEED (rpm)
2	6	1,150	1	7	1,250
	8	1,250		8	1,350
3	2	1,350	2	1	1,450
	4	1,450		2	1,550
	6	1,500		3	1,700

The clip pitch can be set by adjusting the oil flow rate using the reel rotation valve. This allows you to choose a cutting setup according to the turf condition.



Fairway Mower  
**LM551**



# B-ACT

BARONESS Aggression Cutting Technology

B-ACT gives the superintendents around the world optional adjustments to set the aggressiveness of the mower to best fit their individual conditions to achieve the ideal turf.

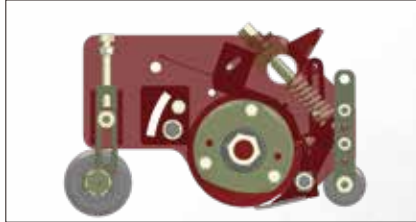
The cutting performance of the reel mower changes greatly depending on the positional relationship between the reel and the bedknife. The bedknife blade angle and the distance of the bedknife from the reel centerline defines the stance; aggressive or less aggressive.

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

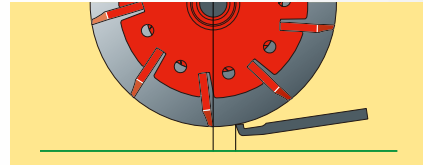
All around the world, golf courses deal with many different conditions and turf. On every golf course, both superintendents and golfers have individual ideas about ideal playing surfaces and turf conditions. B-ACT provides options to customize an optimal cutting performance for every customer's needs and preferences.



## 【 LH52 Unit 】

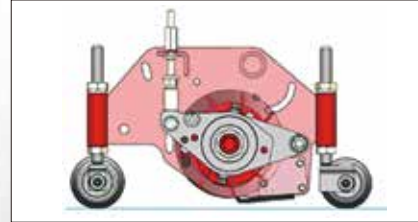


### Aggressive

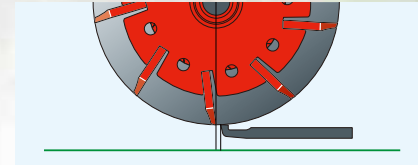


The angle or attitude of the bedknife is more pronounced and the distance of the bedknife is farther from the reel centerline. This more aggressive blade path provides the healthiest cleanest cut while creating the best visual and playing conditions. The adverse side of this aggressive setting is that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

## 【 LH62 Unit 】



### 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 lawn but also allow for more stragglers or uneven cut grass.

## Baroness's 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 uniformed 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 the turf.

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

Aggressive? Less Aggressive?

Before cutting any grass, you should always check the conditions of the turf and adjust the cutting stance to better fit your needs.

Baroness's goal is to assist in creating the best turf and playing conditions possible.

## Multiple Cutting Units

The LM551 can be fitted with 3 different cutting units, to customize the mower to different turf conditions.



### 【 LH52 Unit 】

It is a newly-designed cutting unit with a 5-inch diameter reel.

This LH52 unit uses the same design as the greens mower, and is fitted with the same bedknife and reel (same diameter) as the Baroness riding greens mower.

High grade but lightweight, the LH52 performs well on softer thin blade grasses because it can cut low without scalping.

The LH52 unit can fit both a groomer and CR brush, individually or simultaneously.

#### <Optional Attachments>

Front Groomer, CR Brush, Front Groomer + CR Brush, Front Scraper, Rear Scraper (Plate Type), Support Roller, Grass Catcher



### 【 LH62 Unit 】

The LH62 unit is a newly-designed, higher grade model.

The wider distance between the front and rear rollers and the weight of the unit provide great stability, resulting in a smooth surface. It creates a beautiful zebra pattern.

The LH62 unit can fit both a groomer and CR brush, individually or simultaneously.

#### <Optional Attachments>

Front Groomer, CR Brush, Front Groomer + CR Brush, Front Scraper, Rear Scraper (Bar and Wire Types), Grass Catcher



### 【 LS62 Unit 】

The LS62 unit is a newly-designed, lightweight, simple model.

The lightweight unit minimizes the stress on the turf while improving the climbing power of the mower.

The shorter distance between the front and rear rollers prevents scalping on heavily undulating surfaces and soft, mat-like surfaces.

The cutting height on the LS unit is easily adjusted and recommended when a groomer is not required.

#### <Optional Attachments>

CR Brush, Front Scraper, Rear Scraper (Wire Type), Grass Catcher

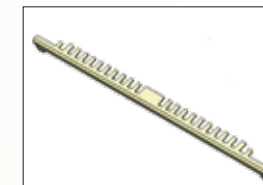


## Fairway Mower LM551

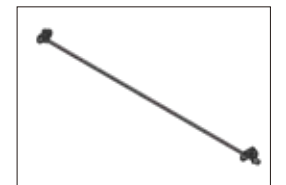
### ● The shape of the option attachment



Front Groomer



Front Scraper



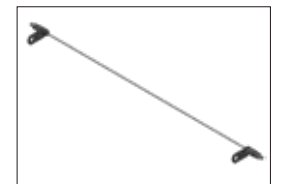
Rear Scraper (Bar Type)



CR Brush



Rear Scraper (Plate Type)



Rear Scraper (Wire Type)



Front Groomer + CR Brush



Support Roller



Grass Catcher



# Features of the LM551

## Improved Cutting

### Improved Stability (Cutting Unit)



#### Coil Spring

The installation of a coil spring between the lift arm and the connective fitting keeps the cutting units horizontal when raising and lowering. Because the cutting unit descends horizontally at the start of mowing, it reduces damage to the turf.



#### Tilted Connecting Arm

The connecting shaft is angled, improving the straightforward stability and resulting in beautiful cut lines.



#### Tension Assist Spring

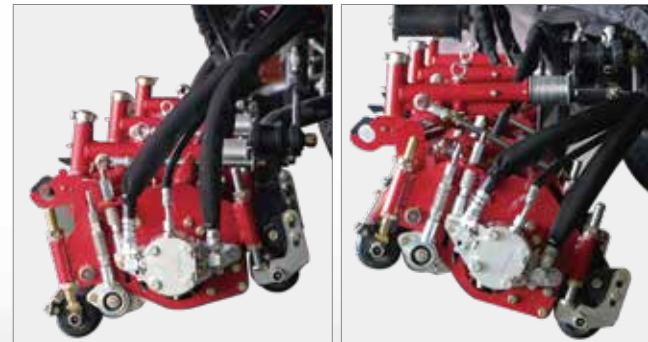
The tension spring balances the down pressure of the rear cutting units, eliminating the double cut effect, and improves the quality of cut and after cut appearance.

### Cutting Unit's Extended Range of Motion



#### Mower Unit's Vertical Range of Motion

By increasing the range of the mower unit's ascension while staying horizontal, the mower can smoothly respond to extreme undulations.



#### Unit's Tilting

By increasing the range of motion of the unit tilting up and down, the mower can follow the contour of the fairways' surface more accurately.

### Prevents Uncut Grass



#### Front-Rear Sliding Mechanism of the Rear Cutting Units

The mower is equipped with a mechanism for the rear cutting units to slide back and forth (to front position and rear position). In the front position, the distance to the front units becomes shorter, ensuring that there is no surface uncut during mowing in the peripheral area and the sloped area.  
※ The grass catcher can be attached only when the cutting units are in the rear position.

### Improved Grass Catching Efficiency



#### Newly-Designed Grass Catcher

Newly-designed shape improves the throw of the grass into the grass catcher. You can remove the grass catcher with one hand, and the added grips make it easy to hold and throw the cut grass away.





## New generation clean engine



### EPA Tier 4 Engine Kubota V1505T-E4B

This Kubota engine is cleaner, more environment friendly, and complies with EPA Tier 4 emissions and regulations (the most stringent emissions regulations in the world in this class). The maximum output is 33.0 kW (44.9 PS). This power enables the operator to mow without operational stress.



### Original Monitor

With the adoption of the Tier 4 Standards compatible engine, we've created Baroness's own original monitor. The display allows you to easily check data such as engine rotation, battery voltage, fuel consumption, machine operation time, failure code(s), service reminders, and more.

## Improved Workability and Operability

### ● Improved Operability



#### Operator Controls

All the control switches and levers are consolidated on the armrest on the right side of the driver's seat. An operator can control the machine without moving the arm from the armrest, which helps minimize operational mistakes.



#### Tilt Steering

The angle of the handle can be easily set with the foot lever under the handle. By setting the handle position according to the operator's preference, the operator can secure a comfortable driving posture.

### ● Improved Operator Comfort



#### Deluxe Seat

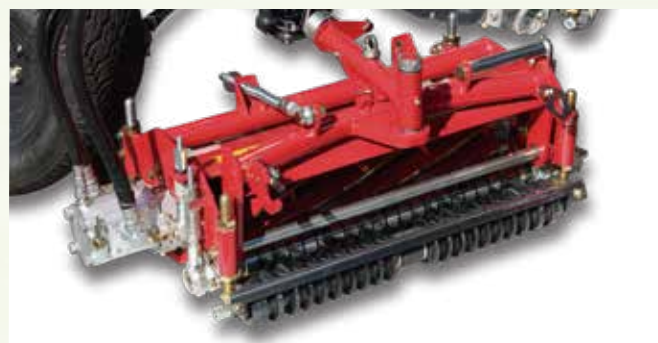
Multiple adjusting seat has a large sliding capacity with a step less height adjustment, and can recline. All of these features reduce the physical stress and fatigue for the operator.



#### Improved Getting On and Off the Machine

We designed the left side of the seat with a wide open access point and added a grip to the ROPS so that the operator can easily get on and off the machine.

## Improved Ease of Maintenance



### Maintenance of the Rear Cutting Units

The rear cutting units under the mid body rotate 45 degrees at the rear position and 90 degrees at the front position. This makes maintaining the unit such as reel to bedknife adjustment and height of cut adjustment easier and saves on the maintenance time.



### Fully Open Bonnet

You can open the cover fully without using a tool. This provides ample space for maintenance work, making work around the engine area easy and saving on maintenance time.

## Greater Safety



### ROPS / Seat Belt

ROPS and the seat belt protect the operator in case the mower turns over while operating on a sloped area.



### Protective Net

The ball proof net protects the operator's head from flying golf balls.



### Interlock System

The mower is equipped with a safety device to control the start and stop of the engine when necessary. When the safety conditions are not satisfied, the safety device kicks in to ensure the operator's safety.

## Cutting Unit Options



### Groomer

A groomer helps with thinning grass (to control the number of shoots) and controlling thatch. It also stands the grass up, which promotes photosynthesis and leads to healthy turf. (Available option for units: LH52, LH62)



### CR Brush/Rear Scraper

The CR Brush and Rear Scraper clean the heaps of fallen grass clippings, soil, or earthworm castings. They prevent grass clippings from adhering to the rear roller and keep cut grass at a uniform height, thus creating a smooth and beautiful finish.



### Front Scraper

The front scraper cleans the heaps of fallen grass clippings, soil, or earthworm castings. It also prevents grass clippings from adhering to the grooved roller and keeps cut grass at a uniform height, thus creating a smooth and beautiful finish.



### Support Roller

The support roller reduces scalping that occurs when the edge of the reel cutter makes contact with the turf surface due to uneven undulations. (Available option for units: LH52)



### Grass Catcher

Newly-designed shape improves the grass catching efficiency. You can remove the grass catcher with one hand, and added grips make it easy to hold and throw away the cut grass.



### LED Light

It is used when operating before or after sunrise and sunset, and during times of poor visibility or fog.

Fairway Mower  
**LM551**