

ROBOTICS



RTKⁿ

Real-time kinematic to the
power of network



Warranty

KR161, KR172/172.A, KR173, KR174
3-year warranty

KR233, KR236
3-year warranty*

*For home use. 2-Year for commercial use.
Specific policies may vary depending on the model.
Please refer to the official website for detailed information.



OPERATIONAL SAVINGS

Eliminates labor costs, has negligible impact on energy bills, and minimizes maintenance expenses when compared to the operational costs of conventional mowers.



UNPLUGGED

No need to create additional electric connections around the mowing area, since there are no antennas that need to be powered.



RELIABLE AND RESILIENT

Without the need for powered antennas on-site, our system remains immune to power surge damages.



EFFICIENCY

The mower works in parallel lines, as an experienced landscaper would.



ZERO EMISSION

No polluting exhaust fumes, no emission of greenhouse gas.



QUIET OPERATION

Hotels can manicure their lawns while guests are sleeping.



UNINTRUSIVE

No ugly antennas in the middle of the lawn or on the roof.



STAY IN THE KNOW

With the Kress app on your smartphone, you can control and monitor your mower anytime, anywhere.

Mows like a seasoned groundskeeper. Without one.

Guided by satellites, Kress RTKⁿ unmanned mowers perfect vast lawns with centimeter-level precision. Day in and day out. All at zero labor cost.



Who will benefit from Kress RTKⁿ?

Residential lawns. Large properties. Athletic Fields. School Campuses. Resorts. Corporate facilities. Unmanned mowing is the ideal solution for countless applications, providing quiet and emission-free turf management that removes the cost of manned mowing.

Features

RTKⁿ

Real-time kinematic to the power of network

CENTIMETER-LEVEL POSITIONING ACCURACY

Kress's proprietary RTKⁿ network delivers correction data to each robot mower without the need for any GNSS receiver antenna on the lawn.



UNIQUE MAP™ (MOWING ACTION PLAN) TECHNOLOGY

MAP technology automatically determines the most efficient path to complete the job.



RBS

recharging brake system

RBS™ REGENERATIVE BRAKE SYSTEM

When running downhill, the robot mower slows down and converts its kinetic energy into power that's stored in the battery for a longer runtime.



FULL IOT FUNCTIONALITY

All Kress robot mowers are IoT devices that connect to cellular networks to receive OTA software updates, support theft protection, adjust operation for weather conditions, and more.





FUSION ALGORITHM

When satellite connection is blocked by trees or buildings, Kress's proprietary algorithm uses the mower's inertial and odometry data to maintain accurate navigation.



PRECISE MULTI-ZONE MANAGEMENT

Kress's MAP technology allows the mower to move between zones independently.



KI - KRESS INTELLIGENCE

Lawn size, edge length, weather, and other factors are automatically processed by a powerful cloud computing system to determine the optimal algorithm and mowing cycle.



MAP™ ROUTE OPTIMIZATION

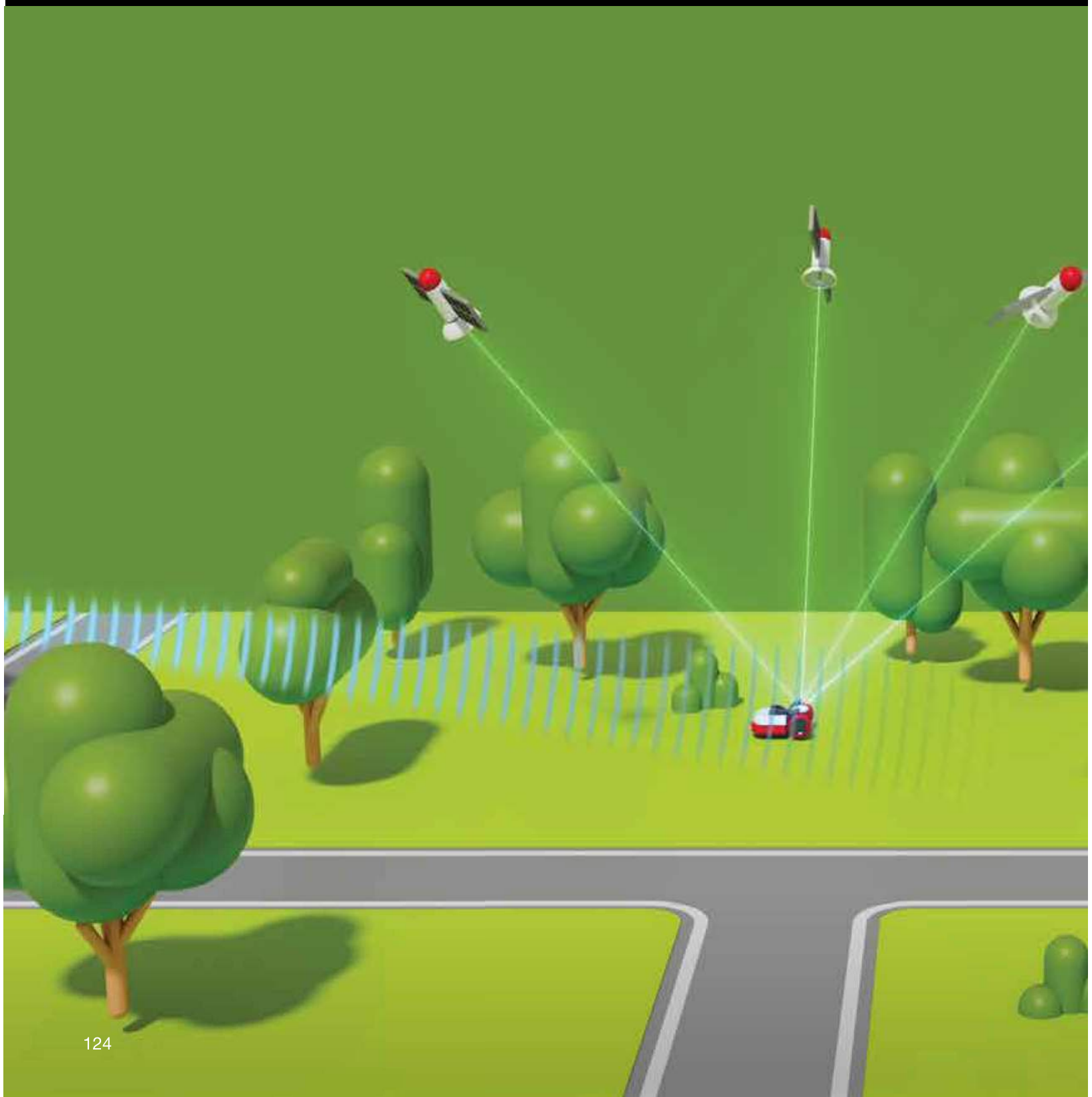
MAP technology automatically calculates the mower's shortest route to the charging station from its current position.

RTKⁿ

Real-time kinematic to the
power of network

RTKⁿ: Real-time kinematic to the power of network

To ensure centimeter-level accuracy, Kress's expanding exclusive network of reference GNSS receivers continuously delivers RTK correction data to each mower via the cellular network.



How it works

The global navigation satellite system (GNSS) provides geo-spatial positioning with 2 to 5 meters accuracy, then real-time kinematic correction is applied to achieve centimeter-level accuracy.

What if there's poor satellite signal?

Should buildings or trees block satellite signals, inertial navigation and odometry will take over to precisely route the mower until it reaches an open-sky area and satellite navigation is restored.



Robotic mowers

OAS obstacle avoidance system

OAS obstacle avoidance system

OAS obstacle avoidance system

KR161
(1/4 ACRE*)

KR172
(3/4 ACRE*)

KR172.A
(3/4 ACRE*)

KR173
(1¼ ACRE*)

KR174
(1¼ ACRE*)



Mission RTKⁿ

RBS 
recharging bike system

RTKⁿ
Real-time kinematic to the power of network

KI 
Kress intelligence

MZ 
multizone function



MISSION RTKⁿ KR161, KR172/172.A, KR173, KR174

Centimeter-level positioning accuracy

Dead reckoning navigation

Unique MAP (Mowing Action Plan™) technology

OAS (Obstacle Avoidance System, KR172.A, KR173, KR174)

Auto-leveling cutting disc

Full IoT functionality

Theft protection

Double-layer blade system (KR174)

Electronic cutting height adjustment

Washable underbody

* Depending on application complexity, the cutting area may be reduced.

The future of unmanned mowing is now.

Find the perfect model for your needs.



KR233
(4½ ACRE*)

KR236
(9 ACRE*)



Mission Mega RTKⁿ

With Mega RTKⁿ mowers, Kress demonstrates once again what is possible in automated mowing today. We combine RTKⁿ, MAP, OAS, and other proven Kress technologies with unique developments to further enhance performance.

MISSION MEGA RTKⁿ KR233, KR236

Mission RTKⁿ features plus...

Dual disc

In-hub drive motor with all-terrain wheels

TeamWork collaborative technology

The Mission Mega RTKⁿ KR233/KR236 includes the features of the Mission RTKⁿ models - and additionally come with dual discs. Apart from a wider cutting width of 13.8 in. and TeamWork collaborative technology, the unique In-Hub drive ensures more accurate and quieter mowing. Together with our patented RTKⁿ positioning system, OAS ultrasound system, and easy-clean IPX5 rated construction, the Mega mowers set a new standard of combined efficiency, power, intelligence, and reliability.

Robotics

1/4 Acre mower

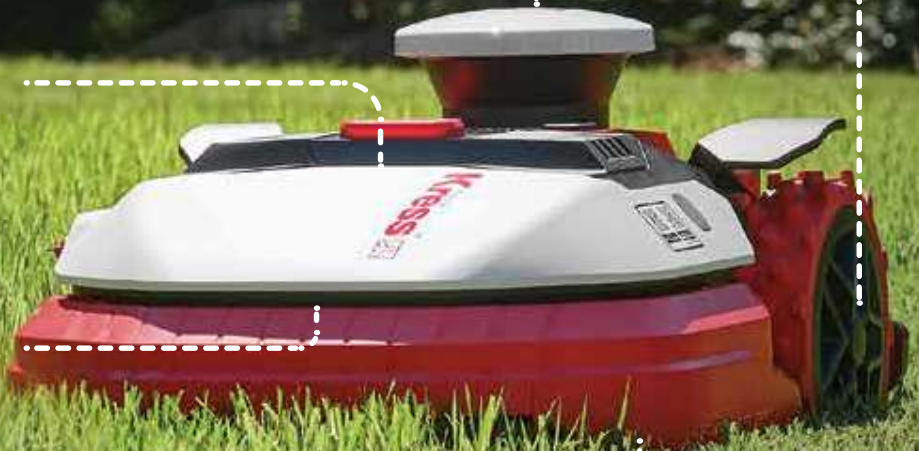
**RBS™ REGENERATIVE
BRAKE SYSTEM**

**CENTIMETER-
LEVEL POSITIONING
ACCURACY**

**UNIQUE MAP (MOWING
ACTION PLAN™)
TECHNOLOGY**

**ELECTRONIC CUTTING
HEIGHT ADJUSTMENT**

**WASHABLE IPX5
UNDERBODY**



Mission RTKⁿ

KR161



1/4 ACRE AREA

7.9 IN. CUTTING WIDTH

4.0 AH BATTERY



SPECIFICATIONS

Rec. area performance	1/4 acre
Cutting width	7.9 in.
Cutting height	1.57 in. - 3.54 in.
Battery capacity	20V Max / 4.0 Ah Li-Ion
Average running time	60 min
Average charging time	180 min
Blade motor	Brushless
Max. incline	40% 22°
Dimensions	26.0 x 18.9 x 13.2 in.
Weight	26.48 lbs.

Robotics

3/4 Acre mower

**RBS™ REGENERATIVE
BRAKE SYSTEM**

**CENTIMETER-
LEVEL POSITIONING
ACCURACY**

**OAS™ (OBSTACLE
AVOIDANCE SYSTEM)**

**UNIQUE MAP™
(MOWING ACTION PLAN)
TECHNOLOGY**

**WASHABLE IPX5
UNDERBODY**

**ELECTRONIC CUTTING
HEIGHT ADJUSTMENT**



Mission RTKⁿ

KR172 / KR172.A

RTKⁿ
Real-time automatic to the power of network

OAS obstacle avoidance system

RBS recharging brake system

KI Kress Intelligence

MZ multiZone function



3/4 ACRE AREA

7.9 IN. CUTTING WIDTH

4.0 AH BATTERY



SPECIFICATIONS

Max. area performance	3/4 acre
Rec. area performance	1/2 acre
Cutting width	7.9 in.
Cutting height	1.57 in. - 3.54 in.
Battery capacity	20V Max / 4.0 Ah Li-Ion
Average running time	60 min
Average charging time	180 min
Blade motor	Brushless
Max. incline	40% 22°
Dimensions	26.0 x 18.9 x 13.2 in.
Weight	26.48 lbs.

* Only for KR172.A

Robotics

1¹/₄ - 1³/₄ Acre mowers

**RBS™ REGENERATIVE
BRAKE SYSTEM**

**CENTIMETER-
LEVEL POSITIONING
ACCURACY**

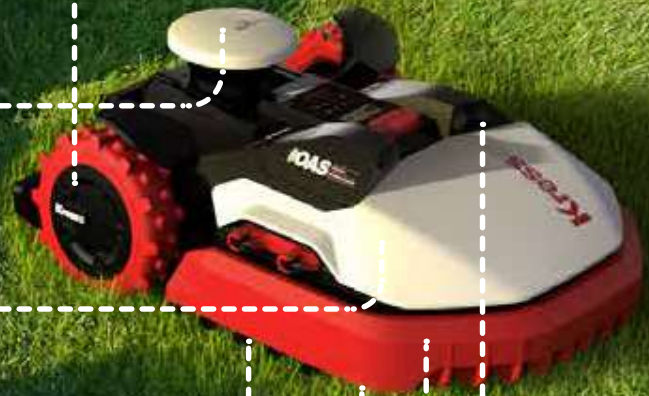
**UNIQUE MAP™
(MOWING ACTION PLAN)
TECHNOLOGY**

**OAS™ (OBSTACLE
AVOIDANCE SYSTEM)**

**ELECTRONIC CUTTING
HEIGHT ADJUSTMENT**

**WASHABLE IPX5
UNDERBODY**

**DOUBLE-LAYER BLADE
SYSTEM**



Mission RTKⁿ

KR173 / KR174

RTKⁿ
Real-time kinematic to the power of network

OAS obstacle avoidance system

RBS recharging brake system

KI Kress intelligence

MZ multiple function



KR173

1 1/4 ACRE AREA

7.9 IN. CUTTING WIDTH

4.0 AH BATTERY

KR174

1 3/4 ACRE AREA

8.7 IN. CUTTING WIDTH

6.0 AH BATTERY



SPECIFICATIONS

	KR173	KR174
Max. area performance	1 1/4 acre	1 3/4 acre
Rec. area performance	3/4 acre	1 1/4 acre
Cutting width	7.9 in.	8.7 in.
Cutting height	1.57 in. - 3.54 in.	1.57 in. - 3.54 in.
Battery capacity	20V Max / 4.0 Ah Li-Ion	20V Max / 6.0 Ah Li-Ion
Average running time	60 min	85 min
Average charging time	90 min	72 min
Blade motor	Brushless	Brushless
Max. incline	40% 22°	40% 22°
Dimensions	26.0 x 18.9 x 13.2 in.	26.0 x 18.9 x 13.2 in.
Weight	27.58 lbs.	28.46 lbs.

Robotics

4¹/₂ - 9 Acre mowers

OAS (OBSTACLE AVOIDANCE SYSTEM)

**UNIQUE MAP™
(MOWING ACTION PLAN)
TECHNOLOGY**

**CENTIMETER-
LEVEL POSITIONING
ACCURACY**

**TEAMWORK
COLLABORATIVE
TECHNOLOGY**

**RBST™ REGENERATIVE
BRAKE SYSTEM**

**IN-HUB DRIVE MOTOR
WITH ALL-TERRAIN
WHEELS**

**ELECTRONIC CUTTING
HEIGHT ADJUSTMENT**

**DUAL-LAYER BLADE
SYSTEM & WASHABLE
IPX5 UNDERBODY**



Mission RTKⁿ

KR233 / KR236

RTKⁿ
Real-time kinematic to the power of network

OAS obstacle avoidance system

RBS recharging base system

KI Kress intelligence

MZ multifunction



KR233

4 1/2 ACRE AREA

13.8 IN. CUTTING WIDTH

10.0 AH BATTERY

KR236

9 ACRE AREA

13.8 IN. CUTTING WIDTH

10.0 AH BATTERY



SPECIFICATIONS

KR233

KR236

Max. area performance	4 1/2 acre	9 acre
Rec. area performance	3 acre	6 acre
Cutting width	13.8 in.	13.8 in.
Cutting height	1.18 - 3.54 in.	1.18 - 3.54 in.
Battery capacity	20V Max / 10.0 Ah Li-Ion	20V Max / 10.0 Ah Li-Ion
Average running time	80 min	66 min
Average charging time	84 min	30 min
Mowing speed	2.0 ft/s	2.6 ft/s
Blade motor	Brushless	Brushless
Max. incline	40% 22°	40% 22°
Dimensions	30.0 x 21.7 x 12.8 in.	30.0 x 21.7 x 12.8 in.
Weight	46.34 lbs.	46.34 lbs.

Robotic accessories



Kress Mission Garage

KA0112

Provides protection for Kress Mission models. Designed for durability and reliability using superior materials and workmanship to protect against heavy rain, strong wind, and high temperatures.



**FITS ALL MISSION
MODELS**



Kress Mega Garage

KA0120

Provides protection for the Kress Mega models. Designed for durability and reliability using superior materials and workmanship to protect against heavy rain, strong wind, and high temperatures.



**FITS KR233
& KR236**

Replacement Blades (12pc)

KA0001

Spare blades are made of stainless steel to give the best cutting performance possible for your Kress RTK[®].



**FITS ALL MISSION
MODELS**





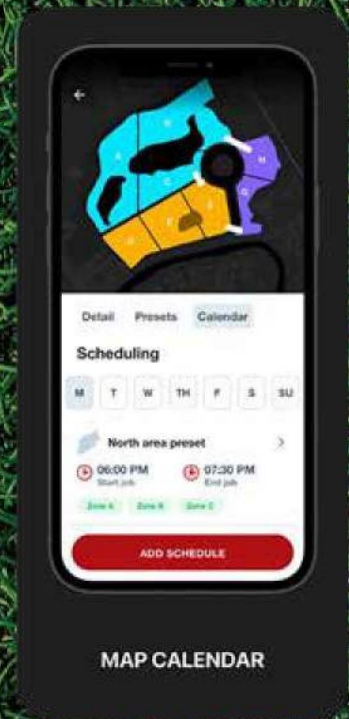
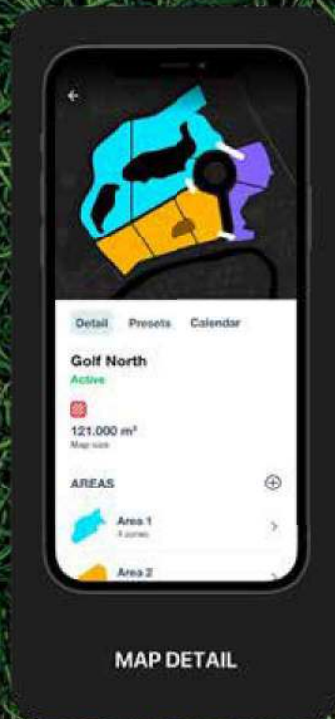
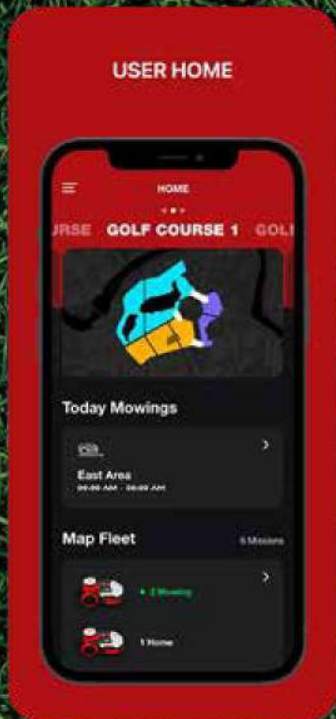


Kress Mission RTKⁿ

Mission RTKⁿ is the ultimate robotic lawn mower management app that ensures you are in control of your mower at all times.

Be always updated on mowing sessions and on your robot's schedule. Create new maps, edit them and manage charging stations. Change working hours and days according to your needs, so you're always in control.

Setup multiple working zones and assign different robots to them. Connect RTKⁿ to your chosen zone via a preset which you can edit according to the day and time span you need.



Stay always in control of your robot with Mission RTKⁿ app.





Kress 

BE THE CHANGE

Every now and then, a revolutionary technology makes things obsolete as we know them.

Stop paying for gas at the pump. Forget expensive maintenance bills. The Kress 8-minute CyberSystem delivers unprecedented power and recharges at incredible speed. With zero emission and low noise.

By switching to Kress, you're not only saving the planet and your lungs, but you're saving money as well.

Your Kress dealer

Kress
www.kress.com