

# HyCut

# KERSTEN

## Remote control slope mower with hybrid drive

### True Hybrid drive

The internal combustion engine generator unit is decoupled from all consumers by a serial (real) hybrid system with a battery pack. On the one hand, this results in a full performance potential, on the other hand enormous savings in gasoline consumption for all drive units, which makes it very environmentally friendly. Thanks to this real hybrid system, there is always available 100% power guaranteed because the travel drive and the cutting unit are powered by the charged batteries.

### Intuitive Radio control

The radio control of the HyCut from Kersten is intuitive and user-friendly, yet light in weight. Operation is easy to learn. The Speed Control function allows the speed to be continuously and effortlessly adapted to the working conditions. If the crop is too high or too dense in some places, the intelligent load management prevents the mower from becoming blocked by automatically reducing the driving speed and automatically increasing it again as the load decreases. When the conditions are normal again, the speed returns to the previously set level. As with a remote-controlled car, the 2-lever control enables intuitive control of the remote control without having to take your eyes off the slope mower.

### 120% Slope capability

The innovative electronics ensure precise control. The internal combustion engine is specially modified for slope suitability, which means that it provides permanent performance in every position. The slope mower is optimized for a well-balanced weight balance of the aggregates for slopes, so that the slope mower achieves maximum grip on the slope and there is no drop in performance. Because no turning maneuvers are necessary and the device moves forwards and backwards. The turf is not destroyed and the productivity is increased enormously.



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### FACTS

- Real hybrid system: 2 x 3 kW electric motors for the track drives, 1x 10 kW electric motor for the cutting deck, 48V 35Ah backup battery. The machine can drive without the internal combustion engine running, especially for returning from the work area, e.g. if the petrol tank is empty or entering a building or delivery van for transport etc.
- 23 HP B&S Vanguard engine just to drive the generator; modified for up to 50° = 120%
- 25 liters removable fuel tank (marine style, when changing loses no gasoline)
- Mowing in both directions alternately, prevents turning maneuvers on slopes, increases the productivity and reduces damage to the ground.
- Mower with 2 spindles, each with 2 or 4 massive blades per spindle; different blades available.
- Cutting width 1150 mm, cutting height 50-180 mm or 80-210 mm (in relation to the blade type)
- Driving and mowing speed 0-7 km / h (forward / backward)
- Speed control for setting the driving and mowing speed on the remote control from 0-100%
- Load management system: If the cutting deck is overloaded, the driving speed is automatically reduced to relieve the cutting deck. With relaxation of the power set cruising speed is resumed. Better, smoother cutting results and lower fuel consumption.
- Rubber tracks in 150 mm width.
- Simple and tool-free track tensioning system, extremely stable track rail.
- Safety brakes so that the machine stands safely on steep slopes when it is not being driven or in an emergency.
- Work lights in both directions.
- Real lifting and lashing points.
- Weight 580 kg; extremely low center of gravity approx. 400 mm above the ground; Machine handles gradients up to 50° = 120%.
- Very intuitive remote control; Range up to 300 meters each by environment.
- All settings by remote control: driving / steering, engine start / stop, cutting deck on / off, cutting height, trimming the undercarriage, speed limit, horn, work lights, emergency stop, reset.
- Remote control with tilt sensor: If the operator stumbles or falls, or the remote control is tilted more than 45°, the machine stops.
- Remote control with replaceable battery; 2 exchangeable batteries standard.
- Emergency stop on machine and remote control.
- Option-Service link to diagnostic center option: data logging of all important data such as temperatures, current flows, voltages, speeds, etc., GPS tracking.



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Electric travel drive with  
Safety brake, always  
100% power on the drive



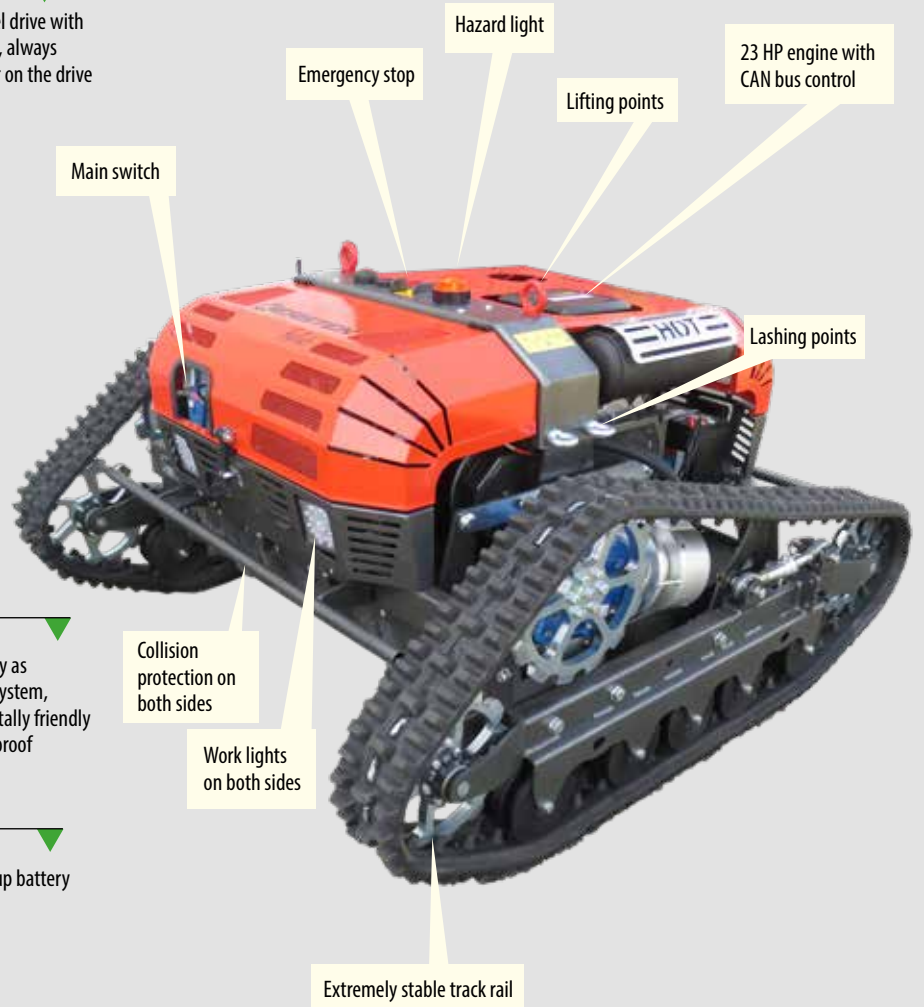
Power supply as  
real hybrid system,  
environmentally friendly  
and future-proof



Hybrid backup battery



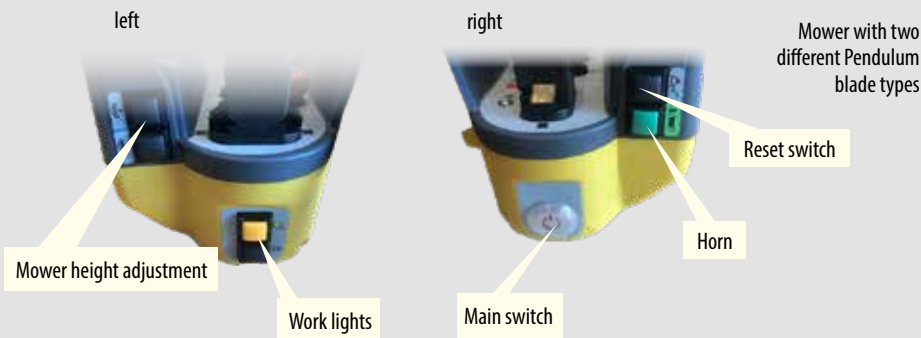
Electric mower drive  
with electrical load management



## Clear remote control



## Side view



## Bottom

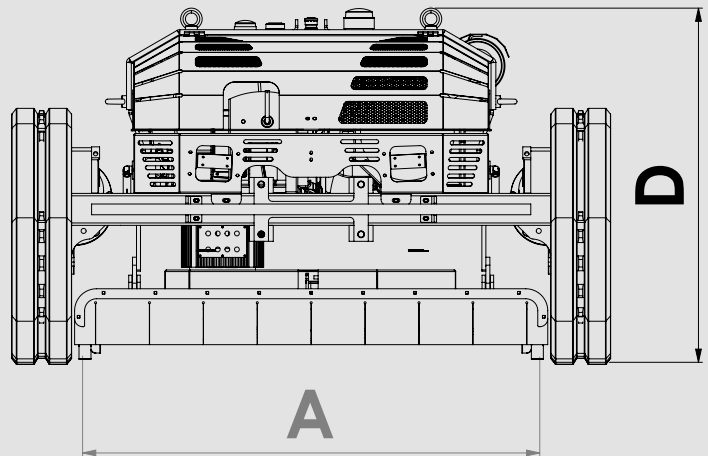
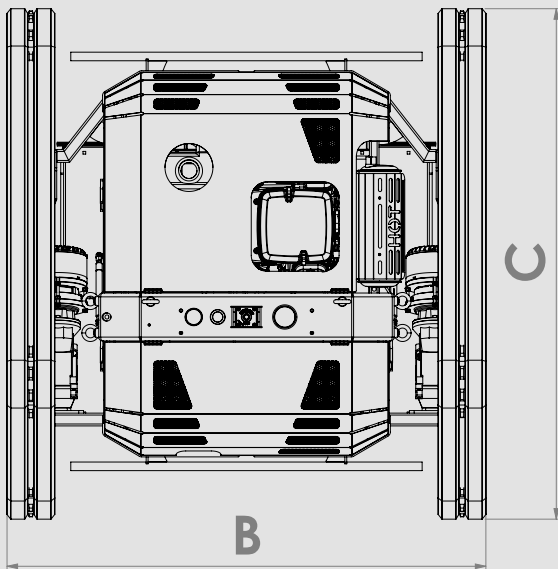




Dimensions	HyCut
A: Working width [cm]	115
B: Width [cm]	150
C: Length [cm]	160
D: Height [cm]	89
<b>Weight kg</b>	<b>580</b>

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## Remote control slope mower



Item No.	Description	Price/€	
<b>HyCut</b> 	<b>Slope mower HyCut</b> Radio-controlled mower with real hybrid drive		
<b>technical data</b>			
Weight	580 kg		
Mowing width	1150 mm (2 spindles with 4 heavy flying pendulum blades each)		
Cutting height	stepless 50-180 mm/80-210 mm		
Speed	0-7 km/h (forward / backward)		
Noise	53.4 dB with electric drive, 78.6 dB in mowing mode		
Tracks	Rubber, 150 mm width		
Engine	17.3 kW (23 hp) B&S petrol engine, emissions standard EU Stage 5 Start / stop via remote control		
Electric motors	Mower deck motor 10.0 kW / 48 V, drive 2 x 3 kW / 48 V		
Batteries	Hybrid: 35 Ah / 48V, control: 22 Ah / 12V		
Drive	2 geared motors, air-cooled		
Safety	Emergency stop on machine and remote control, Orange flashing warning light on the machine, battery disconnection via the main switch on the device		
Radio control/Handset	<ul style="list-style-type: none"> <li>• Control on / off</li> <li>• Control left/right</li> <li>• Mower height adjustment</li> <li>• Emergency stop</li> <li>• Engine stop</li> <li>• Mower on / off</li> <li>• Range up to 300 meters (visibility)</li> <li>• Exchangeable batteries</li> <li>• Radio frequency 2.4GHz</li> <li>• Trim</li> <li>• Display</li> <li>• Speed Control</li> <li>• Automatic tilt control</li> </ul>		