FLEXIBLE. POWERFUL. SAFE.

RAPTOR 100

REMOTE CONTROLLED CARRIER VEHICLE



Prinoth®

REMOTE CONTROLLED CARRIER VEHICLE

The **Raptor 100 from Prinoth** is a unique, remote-controlled carrier vehicle that meets the highest demands for performance and reliability in day-to-day forestry and green maintenance.

Its multifunctionality and flexibility make it extremely versatile: with a forestry mulcher, a stump grinder, a snow blower, a flail mulcher, a forestry winch or a variety of other hydraulically driven attachments, it can master a wide range of tasks.

In combination with the **Grizzly M450h** forestry mulcher, the Raptor 100 is ideal for mulching brush and branches in difficult-to-access or narrow terrain, maintaining green areas, forestry work, on steep terrain, along paths and roadsides and ground-conserving work on sensitive surfaces.

With the **Beaver S500h** stump grinder, it can reliably clear tree stumps and rootstocks along roads and on green areas of commercial and residential properties.

The Raptor 100 offers excellent performance, versatility, reliability, safety and flexibility.

MAXIMUM PERFORMANCE
An innovative drive concept and a powerful hydraulic drive system give you everything you need, whatever the work involves.

MOBILITY
A compact design and low weight make it easy to transport from job to job.

SAFETY AND EASY OPERATION
Operator safety is paramount. All of its functions can be conveniently controlled using an ergonomic remote control with a range of 100 meters.

UNCOMPROMISINGLY GOOD



CONVENIENT REMOTE CONTROL

The ergonomic controller with comfortable waist belt, intuitive joysticks and controls for all work functions as well as emergency stop ensure efficient work from the safety zone up to 100 m away. You can steer the vehicle with one hand while operating the attachment with the other.

POWERFUL HYDRAULIC DRIVE

A powerful hydraulic drive delivers optimum power to the rotor. An innovative hydraulic system with three fully separate systems for propulsion, on-board and power hydraulics is state of the art

- Propulsion hydraulics | 2x 22 l/min
- On-board hydraulics | 18 l/min, 200 bar
- Power hydraulics | 85 l/min, 350 bar
- Six double-acting hydraulic sections

COOLING WITH CLEANFIX® REVERSIBLE FAN

A Cleanfix reversible fan guarantees maximum air flow and pressure so that the cooler and screens are cooled efficiently and cleaned thoroughly.









POWERFUL AND ECONOMICAL
An efficient and powerful 75 hp Deutz engine complies with the Euro 5 exhaust gas standard.



LED WORK LIGHTS
Four bright LED headlights at the front and rear of the RAPTOR 100 mean you can see and be seen, even in difficult lighting conditions.



SAFETY
A chain curtain provides additional protection against flying pieces of wood and stones.



ASSISTING WINCH
The hydraulic 360° cable winch with a pulling force of 10 kN can be used as a recovery winch.



OPERATING PANEL WITH STATUS DISPLAY
Keep an eye on everything: a protected display shows the most important Diesel engine data such as speed, consumption, temperature, and operating hours, visable at a glance.



STORAGE SPACE AND 12V CONNECTION
Big, lockable storage space for extra tools and food. Always ready: a charger with a spare battery for the remote control, enabling you to get straight back to work.

PERFECT WHEN IT'S FLAT –

SAFE ON THE SLOPES

ADJUSTABLE TRACK SPACING

The Raptor 100's running gear can be widened hydraulically between 1,200 and 1,600 mm, which significantly increases stability, especially on rough terrain. It can then be retracted again for navigating narrow paths and gaps. This allows the Raptor 100 to move along narrow, steep pathways where larger vehicles can't go.



GOOD FOR THE ENVIRONMENT – GOOD FOR THE FOREST

Less ground pressure means less environmental damage. The Raptor 100's wide rubber tracks and low weight exert less pressure on the ground, so the soil is protected, even if it is soft.



OVERCOMING OBSTACLES WITH EASE

With a ground clearance of 320 mm and the ability to lift its attachment to 600 mm, the vehicle can easily overcome obstacles such as large tree stumps.



PRECISE CUTTING DEPTH AND MAXIMUM RESISTANCE

BCS rotor system with BCS08: BCS stands for "Bite Control System", an automatic limitation of cutting depths for very uniform mulching material. This rotor system prevents the rotor from digging too deeply into the wood, which would cause the rotor speed to drop too drastically. The tooling of the rotor can be easily changed and adapted to any type of application. BCS08 is particularly resistant to stony soils! Ideal for shredding in wear-intensive applications.



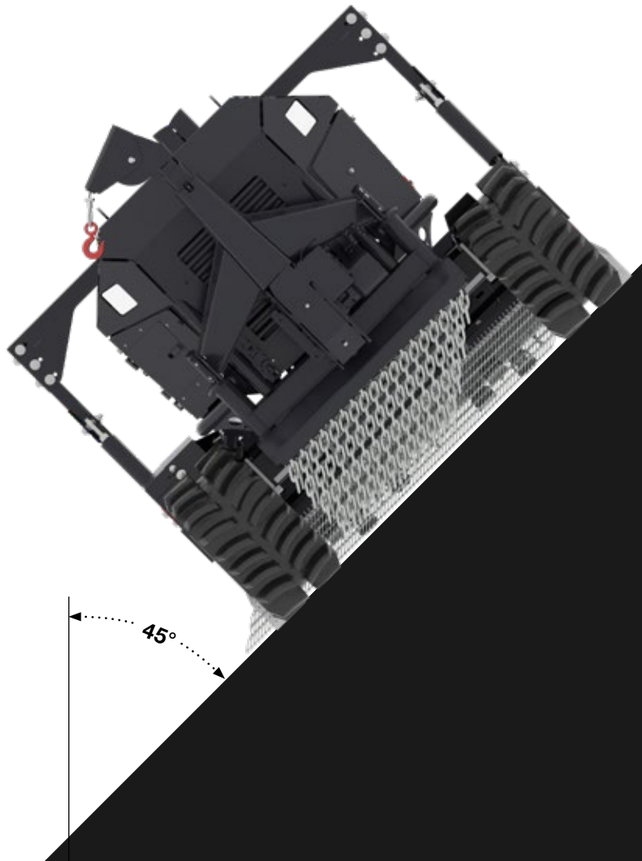
TRUST – EVEN IN THE MOST AWKWARD PLACES

COPES WITH ANYTHING

Slopes, embankments, hills, inclines: thanks to its impressive traction and ideal load distribution, the Raptor 100 can deal with gradients of up to 45 degrees, even on challenging surfaces.

AUTOMATIC TRACK TENSIONING

No need to stop working and manually adjust the track tension: hydraulic, maintenance-free track tensioning reliably prevents the rubber tracks from coming off and ensures maximum traction on slopes.



FLEXIBILITY THANKS TO ATTACHMENTS



GRIZZLY M450h FORESTRY MULCHER

The Grizzly M450h is a lightweight, powerful forestry mulcher for universal use - and the perfect combination with the Raptor 100. It is characterized by easy handling, low maintenance and high productivity with low power requirements. Counter blades ensure smooth cutting action and prevent the rotor from blocking. The mulcher effortlessly masters thick undergrowth and tall grass.

	1250	1450
Volume flow	22.5 gpm (85 l/min)	22.5 gpm (85 l/min)
Hydraulic motor	34 cc axial piston motor with suction valve	34 cc axial piston motor with suction valve
Drive	V-belt	V-belt
Max. pressure	5,070 psi (350 bar)	5,070 psi (350 bar)
Rotor diameter	17.7 in (450 mm)	17.7 in (450 mm)
Tools	26x BCS	30x BCS
Working width	49.2 in (1,250 mm)	57 in (1,450 mm)
Total width	57 in (1,450 mm)	65 in (1,650 mm)



FLAIL MOWER GRIZZLY M420h

The Grizzly M420h flail mower shreds grass, undergrowth and small branches and distributes them evenly on the ground. It is ideal for maintaining green spaces, pastures and roadsides.
Rotating flails finely shred plant residues and leave them behind as mulch, which protects the soil and improves the nutrient supply.

Volume flow	22.5 gpm (85 l/min)
Hydraulic motor	47 cc axial piston motor with suction valve
Drive	V-belt
Max. pressure	5,070 psi (350 bar)
Rotor diameter	16.5 in (420 mm)
Tools	12 fine-cutting blades
Working width	61 in (1,550 mm)
Total width	71 in (1,800 mm)
Weight*	1,102 lbs (500 kg)



STUMP GRINDER BEAVER S500h

The Beaver S500h impresses with its generous working radius and at the same time impressive depth for efficient milling. Tree stumps and roots are removed effortlessly, space for new planting or construction projects is created.

Grinding wheel diameter	18.7 in (475 mm)
Grinding wheel thickness	1.2 in (30 mm)
Grinding wheel thickness incl. teeth	3.7 in (95 mm)
Teeth	2 x 8
Weight with Raptor 100*	ca. 5,082 lbs (2,305 kg)
Weight*	683 lbs (310 kg)
Dimensions LxWxH	55.1 x 31.5 x 23.6 in (1,400 x 800 x 600 mm)
Swiveling range	63 in (1,600 mm)
Milling depth (into the ground)	up to 27.6 in (700 mm)
Rotation speed	1,400 rpm at 22.5 gpm (85 l/min)



FOREST WINCH

By using the winch with a pulling force of 5 t, the machine can be ideally used as a pre-delivery machine. Previously felled timber can be recovered quickly and easily. The winch is controlled via the remote control of the Raptor 100.

Tensile force lowest rope layer	50 kN
Tensile force top rope layer	28 kN
Rope diameter	0.4 in (10 mm)
Rope length	3,150 in (80 m)

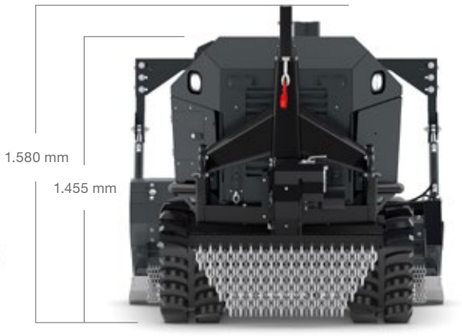


SNOW BLOWER

The Raptor 100, combined with a snow blower, is ideally suited for the rapid removal of loose and icy snow on roads, footpaths, parking lots or areas that are difficult to access. This combination is also ideal for clearing snow from already prepared slopes without causing damage to the surface. The effort required for manual snow clearing is minimized.

Working width	55 in (1,400 mm)
Milling reel diameter	22 in (550 mm)
Blast wheel diameter	20 in (520 mm)





3.170 mm

1.663 mm

TECHNICAL DATA RAPTOR 100

ENGINE

Engine	Deutz Dieselmotor TD2.9L4
Power	55 kW / 75 HP
Emissions	Level Stage V
Max. torque	260 Nm
Fuel tank	13.2 gal (50 l)

TRANSMISSION

Hydraulic pumps and motors

Hydraulic tank	7.9 gal (30 l)
Volume flow for power hydraulics	22.5 gpm (85 l/min)
Max. speed max.	3.7 mi/h (6 km/h)

(1. driving stage 1.86 mi/h (0 – 3 km/h), 2.driving stage 3.7 mi/h (0 – 6 km/h))

WEIGHT* AND MOBILITY

Weight Raptor 100 with assistant winch and lift	4,396 lbs (1,994 kg)
Weight with mulcher	5,710 lbs (2,590 kg)
Ground pressure without mulcher	2.98 psi (0.210 kg/cm²)
Ground pressure with mulcher	3.88 psi (0.273 kg/cm²)

GRADEABILITY

in all directions	45°

UNDERCARRIAGE

Undercarriage typ	undercarriage with rubber tracks
Width	11.8 in (300 mm)
undercarriage	widening hydraulically controlled, 47 - 63 in (1,200 - 1,600 mm)

*Weight depending on the configuration of the machine