

**POWERFUL. COMFORTABLE. RELIABLE.**

# **RAPTOR 500**

FOR THE TOUGHEST CHALLENGES IN FORESTRY



***Pinotti***



# FIRST CHOICE

The **Raptor 500** is a versatile and powerful tracked vehicle designed specifically for demanding forestry and clearing work. With its 437 hp engine and an operating weight of 21 tons, it offers impressive performance combined with low ground pressure, making it ideal for a variety of applications. The Raptor 500 is perfect for clearing storm damage, preparing reforestation sites, clearing fallow land, and creating firebreaks.

It is equipped with the **Grizzly M700m** forestry mulcher, which features a hydraulic pressure device,

additional counter blades, and the patented UPT rotor system, the Raptor 500 guarantees first-class mulching results. Its delta track chassis with pendulum axle ensures excellent off-road capability and increased driving comfort, while the spacious cab offers the driver optimum visibility, safety, and ergonomic comfort.

Thanks to its well thought-out design and high-quality components, the Raptor 500 is an indispensable partner for a wide range of tasks in forestry and landscape maintenance.



**MAXIMUM PERFORMANCE**  
437 hp engine and UPT rotor ensure high throughput and torque for demanding mulching tasks across rugged terrain.



**HIGHLY EFFICIENT & POWERFUL**  
The highly efficient and powerful mechanical drive (HDDL – Heavy Duty Drive Line) transmits all of the power with virtually no loss to the mulcher via the drive shafts: Low fuel consumption, 30% more efficient.



**SAFETY & COMFORT**  
The spacious and comfortable cabin meets the highest safety standards.

# STRONG IN EVERY ASPECT



Practical tilt function, hydraulic or manual for optimum accessibility to the components under the cab.

LED work lights

Cab with rollover protection, protection against falling objects, and forestry frame.

Chassis (Delta Tracks): improved off-road capability, protection of the vehicle against obstacles such as tree stumps, large stones, and easier reversing.

Grizzly M700m forestry mulcher  
Excavation height. With hydraulic push bar, teeth and flap.

## **AUTOMATIC CENTRAL LUBRICATION SYSTEM**

The central system automatically lubricates 30 key points, reducing manual maintenance effort and minimizing downtime. This extends component life, lowers service costs, and keeps the machine operating reliably in the field.

## **OVERLOAD PROTECTION THROUGH TURBO CLUTCH**

The turbo clutch protects the drivetrain by reducing torque peaks, increasing component lifespan and lowering repair costs. Blocking of the rotor does not result in immediate standstill of the motor. Even under extreme working conditions, the entire drive train is protected against shock loads.

## **EFFICIENT HDDL**

The mechanical drive (HDDL) transmits all power to the attachment with minimal losses. This reduces fuel consumption and also enables a large digging height.



## **POWERFUL FORESTRY MULCHER**

The Grizzly M700m mulcher with UPT rotor ensures fine, consistent mulching – reducing cleanup time and enhancing site preparation quality.



## **OPTIMAL VISIBILITY DAY AND NIGHT**

High-performance LED lighting provides excellent all-around visibility for safer operation and increased productivity in low-light or nighttime conditions.



## **EVERYTHING UNDER CONTROL**

All control elements are ergonomically arranged, and the clear and intuitive display, including a rear view camera, provides comprehensive information and assists with machine and engine fault diagnosis.



## **THE MOST COMFORTABLE AND SAFEST CABIN**

The comfortable, air-conditioned, ergonomic driver's cab meets the highest safety standards: ROPS, FOPS, OPS and Front Guard certified, front guard, side forest frame, 12 mm Lexan cab window. It has a heated, ergonomic, air-suspended driver's seat for long working hours in all temperatures. Optional: Overpressure system for clean air at all times and auxiliary heating to preheat the cab and engine.

# THE RAPTOR 500 WITH SPECIALLY DEVELOPED LIFTING GEAR

## THE ADVANTAGES AT A GLANCE

- The mulcher is mounted close to the carrier, giving the entire machine an optimal center of gravity.
- Better mobility on uneven terrain thanks to the high maneuverability of the attachment head.
- Large lifting height for excellent maneuverability on rough terrain.

## EFFICIENT LIMIT LOAD AND LIFT CONTROL

An electronic system regulates the flow rate of the axial piston pumps for the travel drive depending on the engine speed. In tough applications, i.e. when there is high resistance on the rotor, the travel drive brakes automatically. The lifting mechanism control allows the mulcher to float above uneven ground. Both functions ensure higher performance, lower component loads and a longer service life. The assistance systems relieve the driver of work, especially on long working days, and help him to make optimum use of the machine.



### POWERFUL COOLING SYSTEM

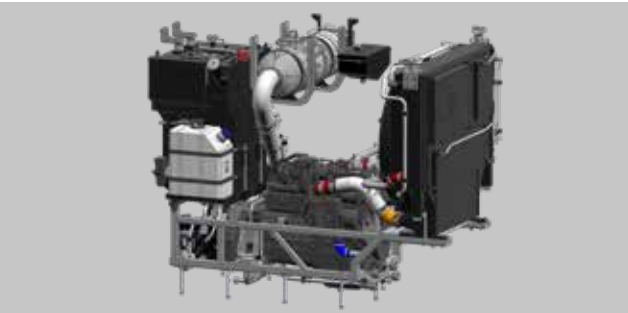
- Hydraulic cooling with automatic fan reversal maintains optimal engine temperature and reduces the risk of overheating, ensuring reliable performance in extreme climates.
- Efficient combination cooler package consisting of fuel cooler, air conditioner cooler, water cooler, and hydraulic oil cooler minimizes power losses.
- Easy access for simple cleaning and maintenance work.



### CHASSIS (DELTA TRACKS)

The robust Delta D5 chassis enables smooth passage over obstacles and protects the ground.

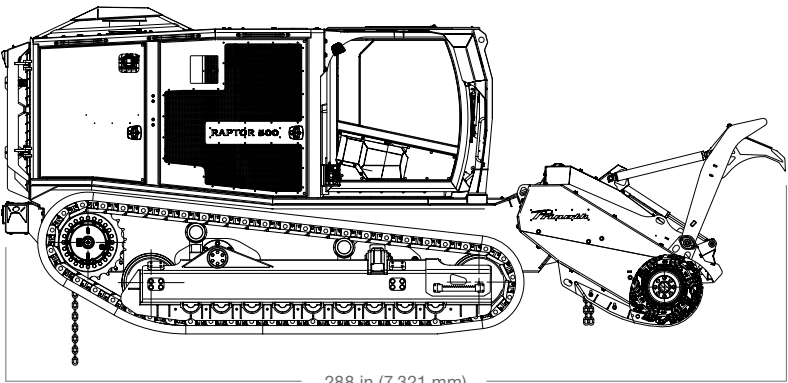
- The high ground clearance allows working in wet and dirty environments without damaging the transmission.
- The swing axle provides additional driving comfort.
- Single and double-ribbed plates with a high self-cleaning effect are available.



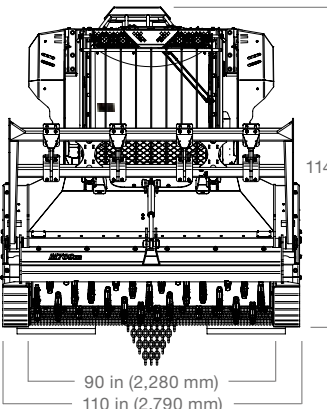
### POWERFUL ENGINE

The 437 hp 6-cylinder Cummins L9 engine offers impressive power reserves for a wide range of applications with a maximum torque of up to 1,845 Nm. Equipped with an AdBlue system and particulate filter, it complies with the latest Stage V/Tier 4 Final emissions standards.

A powerful air filter ensures effective operation even under extreme conditions.



288 in (7,321 mm)



114 in (2,896 mm)

90 in (2,280 mm)  
110 in (2,790 mm)

## TECHNICAL DATA RAPTOR 500

### ENGINE

|                |                       |
|----------------|-----------------------|
| Engine         | Cummins L9            |
| Power          | 321 kW / 437 HP**     |
| Emission       | T4f/Stage V           |
| Max. torque    | 1,845 Nm at 1,471 rpm |
| Hydraulic tank | 14.8 gal (56 l)       |
| Fuel tank      | 132 gal (500 l)       |
| Ad Blue tank   | 14.3 gal (54 l)       |

### DRIVE

|                               |                |
|-------------------------------|----------------|
| Mechanical HDDL-drive         |                |
| Max. speed                    | 5 mph (8 km/h) |
| GGenerously dimensioned drive |                |

### WEIGHT\* AND MOBILITY

|                       |                        |
|-----------------------|------------------------|
| Weight Raptor 500*    | 36,509 lbs (16.560 kg) |
| Weight with mulcher * | 46760 lbs (21.210 kg)  |
| Ground pressure       | 5.6 psi (0,39 kg/cm²)  |

### UNDERCARRIAGE

|                    |                      |
|--------------------|----------------------|
| Undercarriage type | Steel chain          |
| Ground track pad   | D5, 730 mm track pad |

### GRADEABILITY

|                       |     |
|-----------------------|-----|
| Gradeability sideways | 35° |
| Gradeability frontal  | 45° |

### ATTACHMENT GRIZZLY M700m

|                |                       |
|----------------|-----------------------|
| Rotor diameter | 27.6 in (700 mm)      |
| Working width  | 90,6 in (2.300 mm)    |
| Total width    | 110 in (2.790 mm)     |
| Weight*        | 10,031 lbs (4,550 kg) |
| Tools          | 56 x UPT              |

### WINCH

|               |                |
|---------------|----------------|
| Pulling force | 8,2 t          |
| Rope length   | 984 in (25 m)  |
| Rope diameter | 0.5 in (12 mm) |

\*Weight specifications depend on equipment / \*\*437 hp: 1 kW = 1.36 hp (conversion according to international unit system)

**Prinoth GmbH**

Im Branden 15  
88634 Herdwangen  
Germany  
Phone +49 7557 92120  
[prinoth.germany@prinoth.com](mailto:prinoth.germany@prinoth.com)

**Prinoth AG**

Brennerstraße 34  
39049 Sterzing  
Italy  
Phone +39 0472 72 26 22  
[prinoth@prinoth.com](mailto:prinoth@prinoth.com)

Locate your nearest sales and service points  
at **[vm.prinoth.com](https://vm.prinoth.com)**

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