



RAPTOR 800

THE PROFESSIONAL
MULCHING SYSTEM



AHWI *Prinoth*

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BUILT FOR THE TOUGHEST JOBS IN THE WORLD

As the world leader of mulching technology, the RAPTOR 800 was specifically developed for the hardest jobs such as heavy land clearing, vegetation management, right-of-way clearing, seismic exploration, oil & gas exploration, pipeline maintenance, creation of firebreaks and recultivation tasks in professional plantation. The RAPTOR 800 is the perfect combination of power and function. The construction and production of the RAPTOR 800 is completely "Made in Germany". Down to the last detail, everything has been designed for reliability, ease of service and high efficiency.

AHWI *Pinotti*

PRODUCTIVITY

1

The new patent pending Power Belt System provides up to 30% more efficient power transfer compared to equivalent hydraulic systems. The gains in efficiency will translate in to more productivity and less fuel consumption. The Power Belt System is very reliable and easy to maintain which will provide lower overall operating costs.

QUALITY AND SAFETY

2

The RAPTOR 800 is equipped with high-quality branded components. German engineering ensures that they are optimally matched and can develop their full potential. Safety is ensured by means of a certified ROPS/FOPS structures and features such as an optional automatic fire-extinguishing system in the engine compartment. The cab protection device (front guard) is also tested and approved to ISO 10262.

RELIABILITY

3

The RAPTOR 800 is manufactured and assembled by certified mechanics according to rigorous assembly instructions and the most current standards for safety, quality, and efficiency. All of the RAPTOR 800 components have been meticulously designed and tested in the most difficult conditions to ensure they meet the demands of your work environment, where productivity, reliability and safety are essential.

PERFORMANCE

4

The electronically controlled traction drive allows you to navigate the RAPTOR 800 with pinpoint accuracy even in the most difficult terrains. All machine functions are controlled through a CANBUS system. The high-torque, electronically controlled 6-cylinder Caterpillar® turbo diesel engine with an output of 470 KW (630 HP) develops its maximum torque of 2,769 Nm at 1,400 rpm. It is low-emission certified and conforms to the Euromot 3a/Tier 3 standard.



ACCESS »

All components of the RAPTOR 800 requiring maintenance are readily accessible via large dimensioned service panels and the hydraulic tilting of the cab. An optional central lubrication system will save you both time and money. A programmable reversing fan helps clear away debris. The coolers are installed on sliders which make daily cleaning easy.



MECHANICAL DRIVELINE »

The unique Power Belt System provides the mulcher with a very high range of vertical reach even under full load of the engine which in turn increases productivity and all terrain mobility. The mulcher lift frame allows for 40mm (1 3/4 in) vertical movement up and down which allows mulcher to follow terrain and reduces stress and impacts on mulcher and vehicle.



CAB »

The "best in class" cab designs offer the ideal working environment for operators. The cab has enough room for 2 persons (optional passenger seat available) and the active suspension reduces noise and vibrations to a minimum. The fully adjustable operator seat can be installed in 3 different positions. All controls are positioned ergonomically for efficient operation.

TRACK SYSTEM »

The newly developed delta pivoting undercarriage provides optimal all-terrain mobility, less vibrations and provides outstanding comfort for the operator. The delta shape undercarriage allows the vehicle to be driven through water up to 50 cm (20 in) deep and has an exceptional self-cleaning effect. The CATERPILLAR® compatible D5 heavy duty undercarriage parts provide durability and performance in all types of terrain.

**QUALITY RIGHT DOWN
TO THE LAST DETAIL**

AHWI *Piloth*





ENGINE

Manufacturer	Caterpillar
Model	C18
Displacement	18.1 L (1,105 in ³)
Power	470 kW (630 HP)
Rotational speed max.	2,100 rpm
Fuel tank capacity	820 L (217 gal.)

DRIVER'S CAB

- 14 work lights
- Air conditioning
- Insulated cab
- Tiltable driver's cab with suspension
- Seat belt
- Adjustable seat with suspension
- Seat heating
- Storage compartment
- Roof light
- Front windshield wiper
- Polycarbonate window - impact resistant
- Certified ROPS/FOPS safty structure for cab

CONTROLS

- Type microcontroller with colour display
- Control Input through joystick or display
- Additional features via microcontroller error diagnosis, continuous monitoring of all vehicle functions during operation

ELECTRICAL SYSTEM

Voltage	24 V
Alternator	150 A

STANDARD EQUIPMENT

- Parking brake: can be activated by button, automatic activation after 5 sec vehicle standstill
- Parts, service and operating manual
- Windshield washing system
- Horn
- Back-up camera
- Radio with hands-free equipment
- Front protective grill and headlamp protection
- Fire extinguisher
- 6 front lights
- 4 rear lights
- 4 side headlights
- Reversible suction fan on combi radiator
- Compressor unit
- Mirror heating
- Engine cold-start system
- Cooler
- Tool box

OPTIONAL EQUIPMENT

- Hydraulic drum winch approx. 14,000 kg (30,864 lb)
- Side window wiper
- Centralised lubrication system
- Fire extinguishing system
- Driver's cab overpressure system
- Refuelling pump
- Laptop holder
- GPS
- Park heating
- Xenon headlights
- Maximum load control
- Additional driver seat

PERFORMANCE AND MANOEUVRABILITY

Maximum speed	7.5 km/h / 4.66 mph
	Continuously variable FWD/REV
Turning radius	0 m
Vehicle weight (with mulcher)	20,750 kg (45,746 lbs)
	26,000 kg (57,320 lbs)

GROUND PRESSURE (WITH MULCHER)

Track width 600 mm (23.6 in) - standard	0.54 kg/cm ² (7.68 psi)
Track width 700 mm (27.56 in) - optional	0.47 kg/cm ² (6.69 psi)
Track width 800 mm (31.47 in) - optional	0.42 kg/cm ² (5.98 psi)

TRANSMISSION, GEARBOX AND UNDERCARRIAGE

Hydraulic pumps and motors	Bosch Rexroth
Planetary gearbox	PMP
Chain link type	steel link chain D5H
Delta design undercarriage	
Crawler track width	600 mm (23.62 in) standard
	700 mm (27.56 in) optional
	800 mm (31.47 in) optional

DRIVE FOR ATTACHMENTS

- Direct drive via Power Belt System safeguarded by fluid turbo clutch which can be coupled and uncoupled through V-belt

We reserve the right to carry out modifications in the context of continuing technical development.

PRINOTH®, Caterpillar® and Bosch Rexroth® are registered trademarks.

**OUTSTANDING
PERFORMANCE
THROUGH
INNOVATIVE
TECHNOLOGY**

AHWI PRINOTH

M900 - MORE THAN JUST A MULCHER »

The M900 clears ground efficiently. It will increase productivity and last longer which reduces the total cost of ownership. The large 900 mm (35 in) diameter rotor provides the best combination of torque and cutting power in its class. Post-shredding elements in the housing and deep milling skids allow you to work the soil up to a depth of 20 cm (8 in) providing the ideal soil for recultivation.



TECHNICAL DATA

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