

EXTREME CONDITIONS DEMAND
EXTREME PERFORMANCE

EN

BISON ANTARCTIC



Pinotti

EXTREME CONDITIONS DEMAND EXTREME PERFORMANCE

To help you be successful in extreme conditions we produce reliable heavy equipment designed for your specific purposes. Prinoth vehicles, like the Panther XL and the Bison Antarctic, allow you to perform any task where nature is at its toughest, making your daily work easier, more efficient and more secure.



DEVELOPED FOR ANTARCTICA

SERVICE MADE SIMPLE

High-quality original parts and remote support to keep your systems running.

CABIN COMFORT

Modern, stylish, quiet, comfortable – a cockpit for top performance with center seat concept for perfect visibility.



TOP RELIABILITY

Steel Tracks for durability and long service life.

CONSISTENT HANDLING

Same user interface for all Prinoth snow groomers and Panther XL with the Prinoth Control Unit.

EUROMOT STAGE IIIA

6 / 7



ENGINE: CATERPILLAR C9.3B

OUTPUT: 310 kW @ 1,800 rpm

TORQUE: 1,810 Nm @ 1,400 rpm



FOR TOUGH, COLD CONDITIONS

To be powerful and reliable in the toughest cold conditions the Bison has a Stage IIIA engine, which does not require AdBlue/DEF and can use a variety of different fuel types, such as Jet A1, SAB, or AN8. To start the engine in the toughest conditions and keep it running smoothly, it comes with the purpose-built Polar Kit. Specialized protection systems prevent ice buildup on the cooling system, exhaust pipe and air intake.

APPLICATIONS

RUNWAY PREPARATION

The Bison, outfitted with the Power Tiller UC and the Ice Ripper on the blade, is the ideal vehicle to create the even and long-lasting snow surfaces which are needed for runways and roads. The Power Tiller UC is designed to easily process ice and hard snow, creating a compact surface, while requiring low maintenance. Its function is supported by the ice ripper on the back of the blade and the optional tiller camera, which gives the operator a perfect view of the surface produced.

WORK AROUND THE BASE

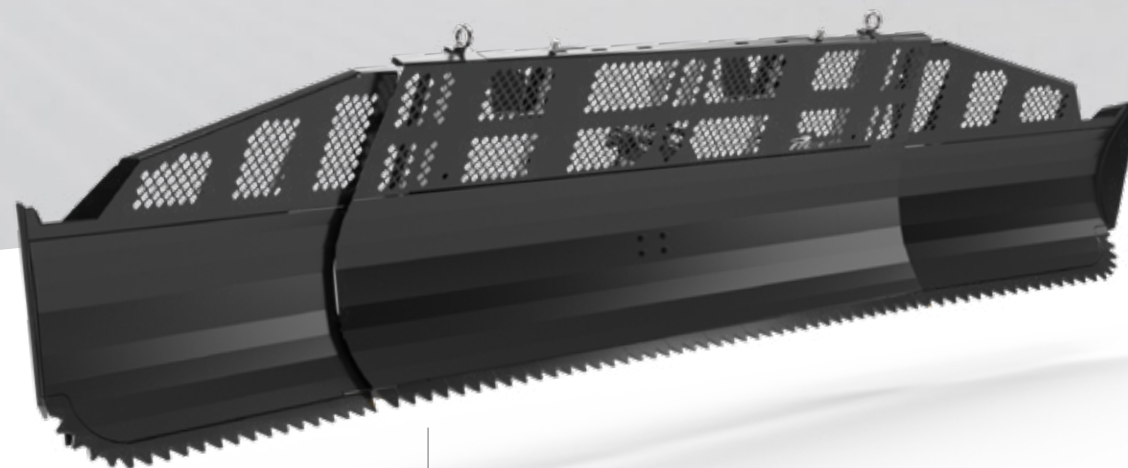
The closed profile steel tracks provide grip and traction while requiring minimal maintenance. The versatile X Blade pushes snow and ice effectively. Additional bolt-on solutions, like the transport rack and the transport box allow the vehicle to be adapted to your specific needs.

CONSTRUCTION

If the Bison is planned to be used for heavy lifting, a crane can be installed and certified by a third party. Alternatively the vehicle can be prepared for a crane, which can be mounted at a later point in time.



POWER TILLER



X BLADE



STEEL TRACKS



TRANSPORTATION

PASSENGERS, RESCUE & RESEARCH

The multipurpose Transport Cabin can be used for passenger transportation, rescue or as a research vehicle, providing a capacity of 11.3 m³ or 15 people. An autonomous heating system doesn't place restrictions on the standard use of the snow groomer.

The fixation point for a rescue sled ensures safe transportation of individuals in need of medical care. Together with the seatbelts, the ROPS certification and the intercom system which connects the Transport Cabin with the operator, utmost safety is guaranteed.

HEAVY DUTY

The Bison is designed to move loads up to 30 tonnes. This makes the Bison the ideal transport vehicle for fuel tanks, residential and research units, containers and everything else you need, without compromising its standard functions as a snow groomer.

PRINOTH CONTROL UNIT

A LARGE DISPLAY AND A MULTIFUNCTIONAL JOYSTICK, PERFECTLY ADAPTED TO THE OPERATOR'S NEEDS – THAT'S THE PRINOTH CONTROL UNIT.

CUSTOMIZED INTERFACE WITH A SINGLE TOUCH

The customizable Prinoth Control Unit is convenient and practical. Operators can tailor the user interface with their preferred shortcuts and vehicle settings. This means that each time they're in the operator's seat, the relevant settings are saved—making the start-up process faster.

- The 12-inch tilting touchscreen makes everything easy to see at night or during the day.
- The display of the rearview camera can be changed to large or small on the screen.
- Vital details about the machine such as engine, tiller, and quick access pages are always visible.

PRECISE CONTROL & COMFORTABLE OPERATION

The “joystick-in-joystick” design provides precise blade and tiller control and allows simultaneous blade movement. The ergonomic joystick hand rest enables hours of smooth, comfortable operation. The reaction time has been reduced making it easier for operators to feel the blade in action which increases accuracy and operator comfort.

QUICK ACCESS PAGES:
RUNNING GEAR, ENGINE,
VEHICLE SETTINGS,
CABIN, FRONT TOOLS,
REAR TOOLS

FLEXIBLE CAMERA
DISPLAY SETTINGS:
SMALL OR LARGE

PERSONALIZED
USER PROFILE

FULL MENU, VIRTUAL
BUTTONS FOR MIRRORS,
LIGHTS AND
BELT TENSIONERS

JOYSTICK-IN-JOYSTICK DESIGN
FOR INTUITIVE OPERATION

ADJUSTABLE JOYSTICK
ORIENTATION

COLOR CODING: MAKES IT
EASY TO FIND FUNCTIONS

KEYPAD: FOCUS
ON DIRECT ACCESS
TO FUNCTIONS



CABIN COMFORT

A COCKPIT FOR TOP PERFORMANCE

Modern, stylish, quiet, comfortable – the Bison's large cabin makes working a pleasure. Its center seat, tilting touch display, LED lighting with a halogen spotlight give a great all-round view and allow the operator to get in and out on either side. The cabin can be equipped with two additional full-size passenger seats to transport your team. The low center of gravity guarantees stability going uphill and downhill. The large cabin with its compact interior heater and optional sound system creates a comfortable home base for the operator, working long shifts in the vehicle.

To enhance safety, an inactivity alarm is activated when there is no action on the Prinoth Control Unit for a certain period of time, for example if the operator experiences drowsiness or distraction while driving. It sets off a visual and acoustic alarm and if there is no response, it slows down the vehicle eventually stopping it.



PRINOTH CONNECT

PRINOTH CONNECT OFFERS VARIOUS SERVICES TO REDUCE WORKLOAD AND TO COLLABORATE AND MANAGE RESOURCES EFFICIENTLY. DATA FROM ALL VEHICLES WITHIN ONE BASE CAN BE TRANSMITTED, SHOWN, SHARED AND COORDINATED, MAKING IT EASY AND EFFICIENT TO MANAGE THE AVAILABLE RESOURCES. THE OFFERED TOOLS ARE INTUITIVE AND EASY TO USE WITHOUT ANY UNNECESSARY INFORMATION, ALLOWING DATA TO LOAD QUICKLY ON A SINGLE USER INTERFACE.

SNOW MEASUREMENT

In addition to the measurement of the snow depth, the system helps you create perfectly level surfaces for runways or roads and to work efficiently around the base. To use this service, the appropriate infrastructure is needed.



FLEET MANAGEMENT

Whether snow groomer, snowmobile or any vehicle—you can know where vehicles are and what they are doing. Fleet Management gives you the big picture, which helps you optimize operations and productivity, ultimately saving time, money and resources.



TASK MANAGER

Task Manager simplifies communication making it easier to manage the magnitude of tasks at your station. It gives you peace of mind that your operations are running smoothly by keeping you continuously updated.



MAINTENANCE OVERVIEW

Whether it's a single snow groomer or an entire fleet, Maintenance Overview allows easy and efficient management and organization of all maintenance and repairs saving time and money through optimized, standardized processes and documentation.



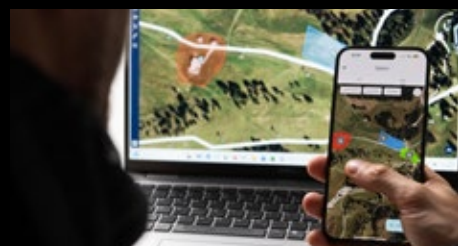
SMART ZONE

Define sensitive areas and set speed limits for your Prinoth vehicles. When entering the Smart Zone, the vehicle automatically slows down and notifies the operator. This can help minimize risks and ensure efficient operations—even in challenging conditions like heavy snow. To use this service, appropriate infrastructure is needed.



OBJECT EDITOR

View and manage the infrastructure of your station with the Object Editor. Simply create, edit or delete objects on your map to help your operators orient and organize, making their work safer and more efficient.



CUSTOMER SERVICE

THE RIGHT PARTNER FOR EVERY ASPECT OF GROOMING
FOR OVER 60 YEARS, PRINOTH HAS BEEN SYNONYMOUS WITH INNOVATION, QUALITY, PROFESSIONALISM, AND CARE—SETTING THE STANDARD NOT ONLY ON THE SLOPES BUT ALSO IN SERVICE. WITH A GLOBAL NETWORK OF SKILLED TECHNICIANS, WE OFFER COMPREHENSIVE SUPPORT, INCLUDING RELIABLE PARTS, EXPERT ADVICE, AND ENGAGING TRAINING PROGRAMS.

PRINOTH PARTS SHOP

Guaranteed Prinoth Original Parts ensure long-term performance and reliability, and are available at the click of a button on the Prinoth Parts Shop.

- Simple, quick and straightforward. Get the right parts, right now in the online shop
- Certified Prinoth Original Parts – components are developed, tested and proven specifically for your snow groomer to avoid time loss and costly miss-ordering
- A full lineup of spare parts kits are available for your particular vehicle, which lets your mechanics spend more time working and less time searching

parts-shop.prinoth.com

PRINOTH SERVICE

Expert support and technical assistance during inspections, repairs and maintenance work are all part of Prinoth's customer service promise.

- Fast, flexible, reliable service
- Worldwide infrastructure backed by a network of local expert technicians and state-of-the-art tools to get your groomer fixed right here, right now
- Available throughout the entire season, including an emergency hotline to reduce critical downtime

PRINOTH ACADEMY

Knowledge and skills are the foundations for creating perfectly groomed slopes, parks and trails. Training programs are available for both technicians and operators. Choose from theory, hands-on practice, or both.

- We strengthen your team and ensure you have the most skilled professionals at your research station
- Three-level system: Basic, Advanced and Expert
- Flexible online courses – wherever, whenever
- In-person training available at regional offices, or customized to your needs

www.prinoth.com/academy

Contact your local Prinoth partner for further information

EXTREME PERFORMANCE



TECHNICAL SPECIFICATIONS



Dimensions and weight

Total vehicle length	4,630 mm
Total vehicle length with attachments	8,730 mm
Total height with tracks	3,030 mm
Track working width	4,210 mm
Transport dimensions (length/width/height)	7,020 / 2,535 / 2,770 mm
X Blade with blade wings open	5,750 mm
X Blade with blade wings closed	4,640 mm
Power Tiller with side wings raised	5,400 mm
Power Tiller with side wings lowered	6,200 mm
Weight with tracks and blade	From 8,835 kg

Driving specifications

Max. speed	21 km/h
Turning circle	0 (around its own axis)

Engine

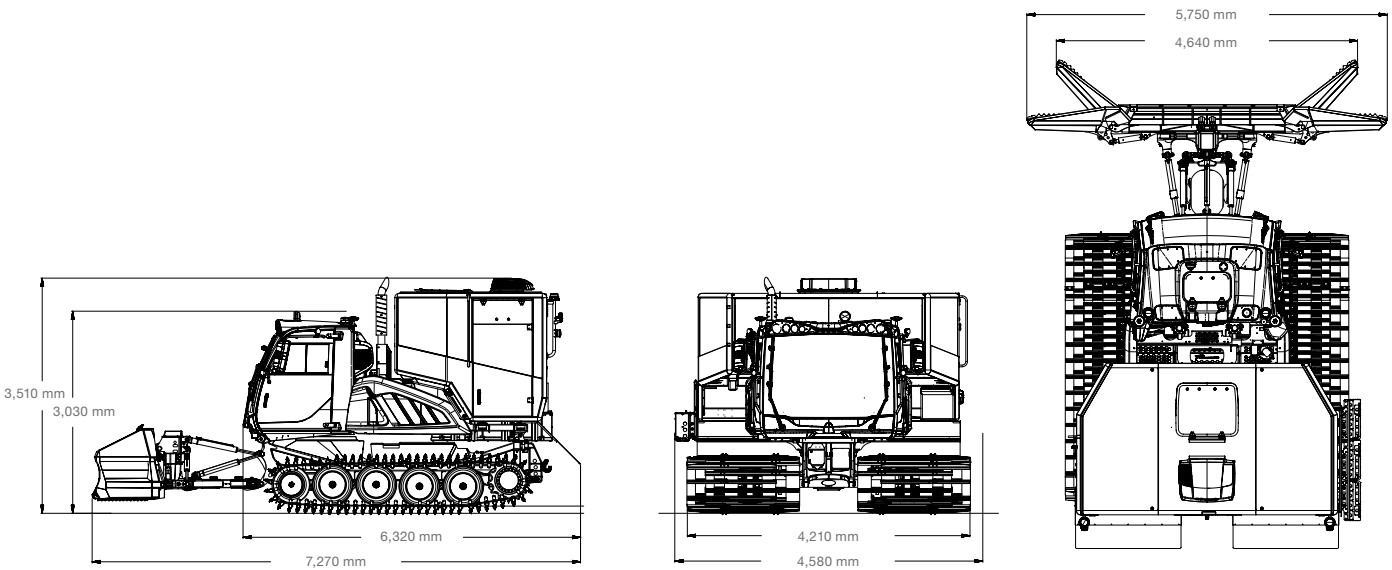
Model	CAT 9.3B
Emission standard	Euromot Stage IIIA / EPA Tier 3
Fuel types	Jet A1, SAB, AN8 or similar
Power output (ECE)	310 kW @ 1.800 rpm
Max. torque	1,810 Nm
Capacity	9.3 l
Cylinder configuration	Straight-6
Tank capacity	320 l*

Lights

Four LED working lights at front – dimmable	Two LED lights on mirror holders
Two high beam / low beam lights	Two position lights and directional indicators
Two LED working lights at rear – dimmable	Two rotating beacons

Operator cabin

Operator seat: comfort center seat with pneumatic suspension, height adjustable
Prinoth Control Unit: 12” touch display, armrest with multifunctional joystick, steering levers, multimedia box with digital radio, MP3/WMA, AUX-In, USB, Bluetooth hands-free system
Radio set ready
Heated side, front and rear windows
Automatic heating and ventilation with touchscreen control
Footwell heating system
Electro-hydraulic tilting cab
ROPS tested pursuant to EN 15059



Standard functions

Hydraulic track tensioning
Cruise control
On-board diagnostics
Reversing alarm
Automatic heating system
Engine preheating
Personalized operator settings stored via NFC
Loading platform
Blade floating position

Options

Seatbelt tensioners
Additional siren
Front hydraulics
Brush guard
Prinoth carpet
Instructor seat on the storage box right
Rear view camera
Tiller camera with LED lighting
Air conditioning system
Towing hook
Prinoth Connect
Additional passenger seats
Full size right passenger seat

*with 50l auxiliary fuel tank

Prinoth AG

Via Brennero 34
39049 Vipiteno (BZ)
Italy
Tel. +39 0472 72 26 22
info@prinoth.com