

BISON BISON X

THE ELEGANT
REVOLUTION FOR SLOPE
AND TERRAIN PARK



LEITNER
TECHNOLOGIES

Prinoth®

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Prinoth®



“PROGRESS IS
THE REALIZATION
OF UTOPIA.”

OSCAR WILDE





**THE BISON AND
THE BISON X
CONVINCING IN
EVERY WAY**



UNIQUE CABIN COMFORT

1

The high quality cabin designed by Pininfarina provides the operator with a low level of noise and vibration. The perfect 360 degree view comes from the central position of the operator's seat and the generous window areas. The PRINOTH designed driver's seat guarantees ergonomic comfort and optimum support. The cabin also offers plenty of storage.

INNOVATIVE TECHNOLOGY

2

The new joystick, designed and developed by PRINOTH, gives the operator total control of blade and tiller with maximum precision and minimum effort. The onboard microprocessor display provides user-friendly diagnostics for the operator and service technician. State of the art electronics make it possible to easily adjust the driving characteristics for the operator's preferences.

UNRIVALED PERFORMANCE

3

The optimum combination of engine performance and weight results in excellent climbing and downhill steering control in the most challenging snow conditions. Ease of operation comes from its ideal dimensions and the powerful Caterpillar engine. In addition, the perfectly balanced ground pressure makes the groomer ready-to-use in any situation and in any place.

EFFICIENT IMPLEMENTS

4

The highly productive PRINOTH POSIFLEX provides incomparable slope quality for the Bison. The design of the proven and tested POSIFLEX reduces the accumulation of snow and guarantees a good rear visibility for the operator. The flexible 12-way blade proves its value when moving large volumes of snow. Made of highly resistant steel, it supports tremendous pushing forces thanks to its optimum shape.

OPTIMIZED OPERATING COSTS

5

The Bison maintenance costs remain quite low in spite of all of its benefits. For one thing, it provides higher drive efficiencies and low fuel consumption. It also scores points by having very low maintenance costs. The use of original equipment manufactured components guarantees long service intervals.



**THE ULTIMATE
SLOPE PERFORMER**

Pinotti



A REAL HEAD TURNER »

It could only come from Pininfarina. The renowned Italian industrial design studio is responsible for the futuristic appearance of the Bison. Let there be no doubt, the Bison is both sporty and modern. No matter how you look at the Bison, it catches the eye. Exciting shapes, balanced proportions and clear contours make it an exceptional design. Aesthetics and technology joined in a perfect balance of design.

AN IDEAL WORKING ENVIRONMENT »

The exterior of the Bison is impressive and it also offers exceptional features inside. The spacious cab provides the operator with maximum comfort in an ideal working conditions. The interior of the cabin was designed beyond the grooming operator's wildest dreams. It is apparent that the ergonomics are the main focus: all the important operator controls are within easy reach of the new seat. The center seating position, large windows, and the layout of the operator's con-

trols allow an unobstructed 360 degree view. The robust construction and generous use of interior sound insulation make the cab extremely resistant to vibration and sound. Safety is integrated into the cab with the ROPS (roll over protective structure) standard EN 15059.





COMFORT ALL AROUND »

PRINOTH searched for innovative solutions that would make it possible for the operator to work hour after hour and as comfortably as possible. The result is a custom-built air suspension operator seat that features a multitude of seating positions to satisfy a wide spectrum of individual seating needs.



A STABLE WORKING PLATFORM FOR THE OPERATOR »

To ensure the operator remains stable even in extreme operating situations, the Bison features an ergonomic seat cushion which includes a design concept that stabilizes the operator during downhill operation and when working the sidehill slope. The seat back has been redesigned to provide additional stability when operating on the side hill. The electrically adjustable lumbar support protects the lower back and ensures seating comfort.



EVERYTHING IS UNDER CONTROL »

The operator is positioned slightly offset of cab center. This ensures a full field of vision to the front and rear of the vehicle. The operator has easy access to the controls. The right armrest has an integrated color display and controls for the important functions. Other controls are located on the headliner directly in front of the driver within easy reach.



INNOVATION THAT
INDULGES THE BACK
AND MORE

Prinoth





KEEPING IT RIGHT

Piunoth

EASE OF OPERATION »

The right armrest features all the controls an operator could ever want. It combines all the main controls and functions in a simple configuration. The controls of the Bison are right at the operator's fingertips. With the ergonomic joystick designed by PRINOTH, the operator can literally be the master of any situation. The tiller and blade can be controlled with maximum precision and minimal effort. At the same time, the controls and displays

have been matched to the human anatomy and allow the operator to work without undue strain and fatigue.



USER FRIENDLY TECHNOLOGY »

The digital color display guarantees added working comfort. All of the important operational parameters can be seen at a glance, allowing the operator the best technical feedback on the Bison's performance. Acceleration, steering behavior, and much more can be adjusted as needed by means of the self-explanatory software menus.



TURNING NIGHT INTO DAY »

The extensive high-powered lighting system makes the Bison ready for service at any time around the clock. The xenon headlamps create a well-illuminated work area. Extra halogen lamps ensure that the Bison can see its way even during the heaviest snowfall in the darkest of night.



IN THE MOST SEVERE WEATHER ... »

... the Bison doesn't let up. The powerful heating and defrost system distributes the air to ensure a comfortable working environment no matter what the temperature is outside. And the driver view won't freeze over either: powerful window defrosters, window heating system, and heated wipers ensure excellent visibility even during the heaviest snow accumulations.



EFFICIENT
LIGHTING AND
HEATING SYSTEMS

Piaggio





**A MOBILE
POWERHOUSE**



FULL POWER AHEAD »

What makes the Bison a powerhouse is its dependable CAT C9 power plant, the very heart of this snowgroomer. With an output of 355 hp, a displacement of 537 in³, and a maximum torque of 1,152 ft-lb, it translates into pure power for slope grooming. The high performance engine offers fully electronic management for maintenance diagnostics. The cab and cargo areas can be raised to provide access to the engine and drive components. A Rexroth hydrostatic drive system

is used in the new Bison. Adverse effects to the environment are minimized by the engine technology, which complies with the EPA Tier 3 emission standard. Low fuel consumption, minimal emissions with maximum performance: PRINOTH is committed to providing high performance that is at the same time good for the environment.

WHEN THE GOING GETS TOUGH »

You wouldn't know it from their rugged appearance, but when our namesake the bison is on the prairie it is both quick and agile. The same holds true for the PRINOTH Bison when it's out on the mountain. The Bison demonstrates excellent maneuverability in even the most adverse conditions. The Bison's agility comes from a variety of factors: optimal distribution of weight, low ground pressure, and ideal location for the center of gravity all give it extremely good ma-

neuverability and climbing ability. When the going gets tough, you need a Bison.





**THE GROOMED SLOPE
AS A PRODUCT**



PROVIDING A WORLD CLASS RESULT »

PRINOTH's customers, skiers and snowboarders will confirm it: the PRINOTH POSIFLEX guarantees a perfect ski slope. With regard to ski slope appearance and quality, it consistently leaves the best surface. Whether the snow pack is soft or hard, natural or man-made, or the tilling depths are shallow or deep, it always achieves exceptional piste quality at high grooming speeds. The tiller also comes equipped with side wings. Special innovations on the POSIFLEX

allow enhanced visibility to the rear. The design of the POSIFLEX also prevents large snow build-ups on the tiller body. That means the POSIFLEX does not gain added weight due to unwanted snow accumulations, productivity will be increased and fuel consumption will remain low. Powerful, hard-working and efficient – a tiller that meets high demands.





**MAXIMUM RESULTS
WITH LITTLE EFFORT**



MOVE MOUNTAINS WITH EASE »

The 12-way blade is manufactured of heat treated steel. It sculpts ski slopes with the same ease that it constructs terrain parks and the profile of the blade allows maximum results with little effort. The standard quick-mount system makes the mounting of other attachments child's play. Snowguns can also be transported easily with the blade, making it possible to move the all important snowmaking equipment to new locations quickly and with little

effort. In short, it serves a wide range of duties on the mountain.



TRACTION IS NUMBER ONE »

Standard equipment on the Bison is the extremely durable steel track with the hydraulic track-tensioning system. Its impressive climbing ability in both soft and hard snow is the result of special side hill plates and carbide ice spikes. As an option, the tracks are also available in an aluminium version.



**THE AUTHORITY IN
TODAYS TERRAIN PARKS**



THE "X" MAKES ALL THE DIFFERENCE »

Think of the "X" as extremely agile, with an explosive use of power, making the X the most exclusive terrain park equipment available. The Bison X distinguishes itself by creating, the most sophisticated and demanding terrain park features available. The joystick-in-joystick blade control turns tough jobs into extremely simple tasks. The multifunctional hydraulic system has made it possible to operate both the front and rear accessories simultaneously.

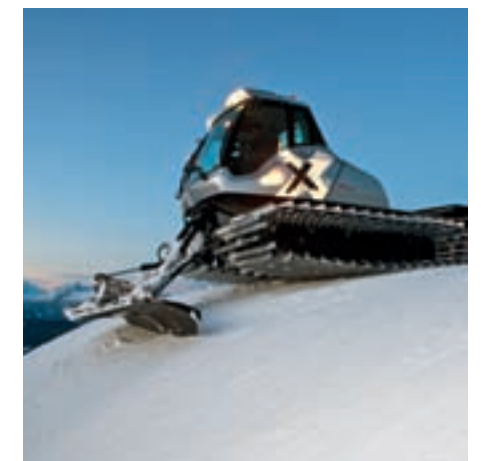


INNOVATIVE ACCESSORIES »

It doesn't get any more maneuverable: The range of motion of the blade is an extraordinary 127°, not to be out done the tiller has a range of motion of 151°. The aggressive geometry of the blade and the added length of the rear lift frame were created for the specific needs of the terrain park operator. Due to the exclusive design of the implements, combined with outstanding climbing capabilities, the Bison X can conquer the steepest ramps and the most extreme take-offs.

FROM THE PARK TO THE SLOPES »

The Bison X does not just prove itself in the construction of a terrain park. It redefines how to efficiently maintain a terrain park. Once the park has been built the Bison X can be put to work on the ski slopes. The beauty of the X is that it is equally as comfortable grooming a ski slope as it is working the world's most demanding terrain parks. Just another example of how PRINOTH is providing you with a greater return on your investment.



ENGINE

Make	Caterpillar
Model	C9 Acert
Turbo diesel, electronic fuel system	EPA Tier 3
Number of cylinders	6 in line
Displacement	8.8 l/537 in ³
Power	261 kW/355 hp at 1,800 rpm
Torque	1,562 Nm/1,152 ft-lb at 1,400 rpm
Fuel consumption from	19 l/h – 5 U.S. gal/h
Tank capacity	230 l – 60.8 U.S. gal

DRIVER'S CABIN

Centre driver seat
Three-point safety belt for the driver
Multifunction display integrated in right armrest
Drive control with steering levers
Specially developed joystick
Electronic units connected via CAN bus
Right passenger seat
Large storage area on the left side of the driver's seat
Left passenger seat
ROPS-certified according to pr EN 15059
Radio with CD player and stereo speakers
Cabin's tilting by electro-hydraulic control

DRIVING FEATURES

Turning radius 0 (turns its own axis)
Maximum speed 21.8 km/h – 13.55 mph
Gradability depending upon snow conditions up to 100%
Driving features can be configured individually

WEIGHT

Total weight including tracks, blade and tiller 8,910 kg – 19,643 lb
Max. permissible total weight 10,000 kg – 22,046 lb

DRIVE

Hydrostatic transmission Bosch Rexroth

LIGHTS

2 Xenon front lights
4 Front halogen lights
2 Mid-height front driving lights
2 Halogen work lights on the side doors
4 Rear halogen lights
Search lights
2 Rotating beacon lights, 2 direction blinkers

WINDSHIELD/WINDOWS/MIRRORS

Heated windshield, rear and side windows
Electrically adjustable and heated outside mirrors
Front wiper heating

ELECTRICAL SYSTEM

Voltage 24 V
Batteries 2 x 12 V
Cranking amps 950 CCA-195 min. RC

TILLER

POSIFLEX TILLER provided with quick-coupling system
Standard side wings

BLADE

12-way with quick-mount system

SPECIAL FEATURES OF THE BISON X

Blade operating range of 127 degrees
Blade geometry adjusted to the park requirements
Blade geometry is changeable
Tiller range of motion is 151 degrees
Rear frame 30 cm/11.8 in longer
Multifunctional hydraulic system
Proportional joystick in joystick for blade control system

SHERPA WINCH

Minimum breaking load 11.7 M Tons/26,000 lbs
Maximum speed 18.5 km/h/11.5 mph
Maximum pull force 4.4 M Tons/9,600 lbs
Cable capacity 1,000 m/3,300 ft
Cable diameter 11.1 mm/7/16"

Subject to modifications in the course of technological advancement.

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TECHNICAL DATA

Prinoth

