



BISON BISON X

THE ELEGANT
REVOLUTION FOR
PISTE AND FUNPARK



Sales and service sites in your area to be found on www.pri노th.com

PRINOTH AG
Brennerstraße 34
I-39049 Sterzing (BZ)
Tel. +39 0472 72 26 22
Fax +39 0472 72 26 18
pri노th@pri노th.com

PRINOTH France S.A.S.
5, Rue Galilée Alpespace B.P. 62
F-73802 Montmelian, Cedex
Tel. +33 (0)479 84 76 76
Fax +33 (0)479 84 76 77
pri노th.france@pri노th.com

PRINOTH (Schweiz) AG
Gemmistraße 45
CH-3970 Salgesch
Tel. +41 (0)27 456 26 56
Fax +41 (0)27 456 47 00
info@pri노th.ch

PRINOTH Ltd.
615 Georges - Cros Street
Granby, Quebec J2J 1B4
Tel. +1 450 776 3888
Fax +1 450 776 6030
pri노th.canada@pri노th.com

PRINOTH GmbH
Michael-Seeber-Straße 1
A-6410 Telfs
Tel. +43 (0)526 262 121
Fax +43 (0)526 262 123 160
pri노th.austria@pri노th.com

PRINOTH LLC
2746 Seeber Drive Bldg B
Grand Junction, CO 81506
Tel. +1 970 242 7150
Fax +1 970 241 6722
pri노th.us@pri노th.com

Prinoth

Prinoth



“PROGRESS IS
THE REALIZATION
OF UTOPIA.”

OSCAR WILDE





**THE BISON AND
THE BISON X
CONVINCE 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. A perfect all-around view comes from the central position of the operator's seat and the generous window areas. The custom made Recaro 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. The state of the art electronics make it possible to easily adjust the driving characteristics to the driver 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, perfectly balanced ground pressure makes the groomer ready-to-use in any situation and in any place.

EFFICIENT IMPLEMENTS

4

The highly productive PRINOTH POWER TILLER provides incomparable piste quality for the Bison. The design of the proven and tested POWER TILLER reduces the accumulation of snow and guarantees a good rear view 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.

OPTIMISED OPERATING COSTS

5

The Bison maintenance costs remain quite modest in spite of all of its benefits. For one thing, it can come up with high drive efficiency and low fuel consumption. It also scores points by having very low maintenance costs. The use of original equipment manufacturer components guarantees long service intervals.



THE ULTIMATE
PISTE 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 and 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 center seat. The seating position, large windows, and the layout of the

operator's controls 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 (rollover protective structure) German standard EN 15059 ROPS.





COMFORT ALL AROUND »

The world class seat manufacturer Recaro with the assistance of 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 developed air-cushioned driver's 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 for stabilizing the operator during downhill operation. The seat back has been improved to add 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 of 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

Pinotti

EASE OF OPERATION »

The right armrest features all the control an operator could ever want. It combines all the main control 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 come to master 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 allows 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 desired 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: efficient 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 power plant, the very heart of this snowgroomer. With an output of 261 kW (355 hp), with a displacement of 8.8 liters and a maximum torque of 1,562 Nm, 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 Euromot III A 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 maneuverability and climbing ability. When the going gets tough, you need a Bison.





**THE GROOMED SLOPE
AS PRODUCT**

Prinoth

PROVIDING A WORLD CLASS RESULT »

PRINOTH's customers, skiers and snowboarders will confirm it: the PRINOTH POWER TILLER 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. As an option, it can also be equipped with side wings. Special innovations

on the POWER TILLER allow enhanced visibility to the rear. The design of the POWER TILLER also prevents large snow buildups on the tiller body. That means the POWER TILLER does not gain added weight due to unwanted snow accumulations, productivity will be heightened 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 high-tensile steel. It sculpts ski slopes with the same ease that it constructs snow 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 aluminum 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 a steel version.



**BISON X,
THE FUNPARK EXPERT**



THE "X" MAKES ALL THE DIFFERENCE »

"X" as in extreme agility, exact grooming, explosive power usage, exclusive equipment. The Bison X distinguishes itself with the shaping of jumps, pipes, rails, and more, as a true funpark expert. Hard jobs get extremely simple because of its efficient operating concept: the joystick-in-joystick control in combination with the multifunctional hydraulic system makes it possible to operate the important functions simultaneously – just for fun.



THE MOST FLEXIBLE IMPLEMENTS »

It doesn't get any more maneuverable: while the work area of the blade extends to an extraordinary 127°, the tiller convinces with a mobility of 151°. The geometry of the blade and the length of the rear mounting frame were adapted to the needs of the park. With the enormous mobility of the implements and the outstanding climbing ability, the Bison X even conquers demanding ramps and the most extreme take-offs with bravura.

FROM THE PARK TO THE PISTE »

The Bison X does not just prove itself in the funpark. Once such a park has been built and only needs to be groomed on a regular basis, the Bison X can be put to work on the ski pistes. Its agility and mobile implements prove themselves to be a great advantage both in the funpark and on the piste.



ENGINE

Make	Caterpillar
Model	C9 Acert
Turbo diesel, electronic fuel system	Euromot III A
Number of cylinders	6 in line
Displacement	8,8 l
Power	261 kW (355 hp) at 1,800 rpm
Torque	1,562 Nm at 1,400 rpm
Fuel consumption from	19 l/h
Tank capacity	230 l

DRIVER'S CABIN

Center seat
Recaro driver's 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
Drive control with steering levers
Right passenger seat
Large storage area on the left side of the driver's seat
Left passenger seat
ROPS-certified according to EN 15059
Radio with CD player, USB-connection 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
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
Max. permissible total weight	10.000 kg

DRIVE

Final drive hydrostatic pumps 140 cm³ 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 - 100 Ah
Cranking amps	800 A (standard) EN

TILLER

POWER TILLER provided with quick-coupling system
SNOW PROTECTORS
Optional 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 longer
Multifunctional hydraulic system
Joystick in joystick system

Subject to modifications in the course of technological advancement.

PRINOTH®, Pinfarina®, Recaro®, Caterpillar®, Bosch Rexroth® are registered trademarks.



TECHNICAL
DATA

Prinoth

