



# BISON BISON X

PROFESSIONALISM  
ON PARKS, PIPES  
AND SLOPES.

*Pinotti*<sup>®</sup>



**CLEAN MOTION  
MORE WITH LESS**

CLEAN MOTION is PRINOTH's cutting-edge philosophy, which is not only a synonym for low energy consumption and sustainable environmental protection but also creates vehicles boasting efficiency, excellent performance, and a long service life. Achieve more with less.

**ENGINE TECHNOLOGY  
STAGE IV/TIER 4 FINAL**

With 298 kW/406 HP, the BISON is a real energy-package. With low fuel consumption and a 90% reduction in nitrogen oxide and fine dust emissions, its innovative engine technology meets the strictest current exhaust emission standard, "Stage IV/Tier 4 final."

**OPERATOR'S CAB  
ERGONOMIC AND COMFORTABLE**

The operator's cab serves as a comfortable workstation, offering superb visibility and space for everything an operator needs. The standardized PRINOTH instrumentation with a multi-functional joystick and digital 8.4 inch color display makes working the night shift a real pleasure. And thanks to innovative sound insulation and a noise-optimized engine, all that can be heard is the sound of crunching snow.

**UNATTAINABLE STANDARDS  
TILLING TECHNOLOGY**

The POWER tiller ensures deep, fine-grained tilling results and offers an exceptional trailing configuration thanks to a newly developed rear mounting frame with enhanced kinematics even on curves. Optimized tiller teeth guarantee unprecedented slope quality and long-lasting results.

**BISON X  
THE ULTIMATE XPERIENCE**

Developed to meet the evolving and creative requirements of the park industry, the BISON X is the unbeaten number one when it comes to park building – combining elements from the snowboard and freestyle scene with innovative features, styling any park to absolute perfection. Outstanding performance, unobstructed view, and exceptionally comfortable operator's cab are all part of the package.

**PROFESSIONALISM ON PARKS, PIPES  
AND SLOPES.**

When it hits the slopes, the BISON is guaranteed to impress thanks to its exceptional thrust, excellent maneuverability, unrestricted vision, and outstanding comfort. The park version BISON X is the undefeated champion when it comes to building terrain parks and ski cross courses. It also makes the perfect tool for preparing and maintaining cross-country and snowmobile trails.



**BRAINS AND BRAWN**

With 298 kW/406 HP, the BISON is a real energy-package, it also offers lower fuel consumption and reduced emissions despite its high power. The exceptionally efficient power transmission delivers high torque and therefore greater pushing performance at low engine speed.



**STAGE IV/TIER 4 FINAL**

The combination of the SCR system, exhaust gas recirculation, and diesel particulate filter generates 90 percent less nitrogen oxide and particulate matter than its predecessor. The BISON therefore meets the exhaust emission standard "Stage IV/Tier 4 final."

# CLEAN MOTION

**MORE WITH LESS**

CLEAN MOTION by PRINOTH is a pioneering philosophy, which is not only Synonym for low energy consumption and sustainable environmental protection but also creates vehicles boasting efficiency and excellent performance. Using natural resources sustainably is one of PRINOTH's primary concerns when developing products.

**RESPONSIBILITY**

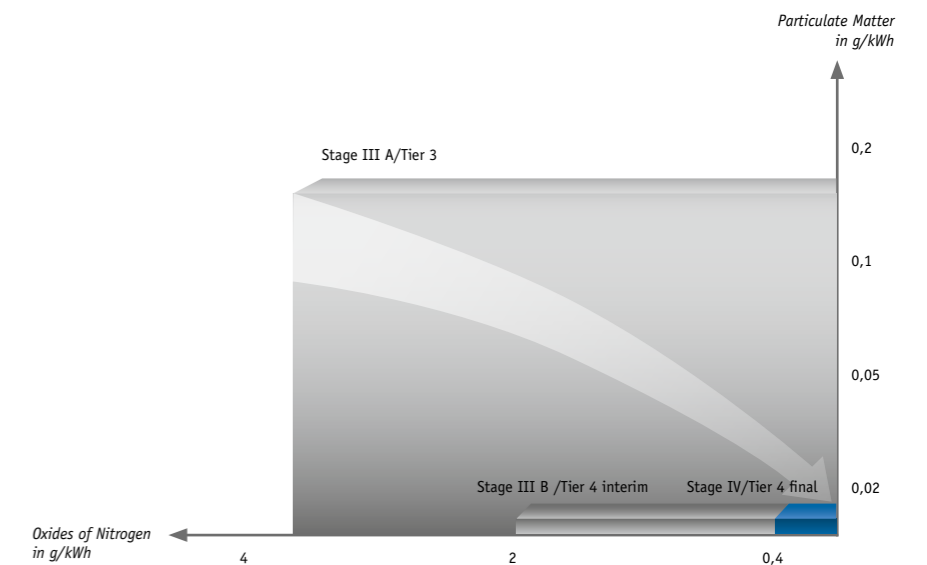
PRINOTH cares about clean slope preparation. We make sure to keep exhaust emissions low and use resources sensibly, while ensuring high economic efficiency and a long service life. After all, our vehicles are used day in, day out wherever outstanding technology needs to be combined with a high degree of environmental responsibility.

**THINKING SUSTAINABLY**

When it hits the slopes, the BISON is guaranteed to impress thanks to its exceptional thrust, excellent maneuverability, unrestricted vision, and outstanding comfort. Its powerful diesel engine with 298 kW/406 HP provides all the momentum it needs. At the same time, a fully electronic engine management system guarantees lower fuel consumption and reduced maintenance costs.

**POWERFUL AND HIGH-TORQUE**

With an increased torque of 1,726 Nm and a whole host of efficient, comprehensive solutions, the BISON offers brand new opportunities to optimize work procedures. Thanks to the new drive system, the diesel engine can be used in the lower speed range without reducing working speeds, while cutting fuel consumption.





**STANDARDIZED INSTRUMENTATION**

The standardized PRINOTH control system has been implemented across the product line and ensures greater efficiency and optimal workflow. The learning curve is therefore optimized for operators switching from one vehicle model to another.



**WELLBEING**

Windows that slide open on both sides and a sunroof ensure that air can circulate through the cab.



**FOOTWELL HEATING**

No more cold feet. The footwell heating system on the BISON provides a pleasant climate even at extreme outside temperatures and it will ensure a high working comfort level.



**CUSTOMIZABLE COMFORT**

The Recaro™ operator seat is packed with comfort features such as lateral supports, pneumatic suspension and multi-position ergonomic adjustments. A good seating position reduces strain on the body when working long night shifts.

# COMFORTABLE CAB

**FIRST-CLASS COMFORT IN THE CAB**

The exceptionally roomy cab in the BISON boasts an unobstructed view. Optimized sound insulation, a quiet engine, and highly efficient external lighting ensure unparalleled comfort for the operator. The intuitive operation of all control elements and the ergonomic positioning of the armrest and joystick make driving a pleasure.

**SEAT CONFIGURATION**

The central seat in the BISON provides an unlimited panoramic view and optimum ride comfort. In the park configuration, a swivel seat that can be moved to the side allows the operator to switch easily from the central position to the left-hand side, ensuring a clear view whatever the situation.

**OPTIMUM SUPPLY OF FRESH AIR**

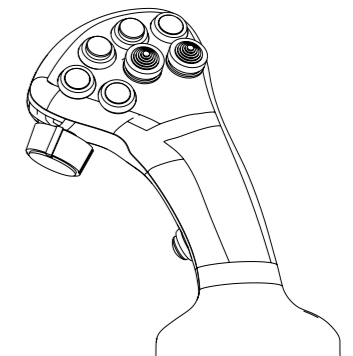
The cab features an integrated sunroof and adjustable side windows on both sides for an optimum supply of fresh air. Standard cab and window heating ensures a comfortable environment and unhindered visibility.

**INNOVATIVE ONBOARD DIAGNOSTICS**

The operator is alerted to fault messages by audible alarm signals and can easily find details in the fault log. Gas pedal characteristics, interval times, steering characteristic curves, and other properties can be stored individually for up to 6 operators and accessed at any time.

**ERGONOMIC CONTROL ELEMENTS**

With the 8.4 inch color display, you have all the required information perfectly in sight. The primary vehicle functions can be controlled with one hand thanks to the electric joystick. The secondary vehicle functions can be operated via the direct-access keys. The central dial button offers information navigation on the display's configuration menu.



*Innovative PRINOTH joystick*



#### HYDRAULIC WINDING SYSTEM

The new linearly guided automatic winding system extends the life of the winch cable thanks to the precise way it works. The cable can be wound quickly and easily.



#### ROLL-OUT SYSTEM

The optional, optimized roll-out system supports the pull-out procedure of the winch cable in order to reach the anchor point.



#### REAR VIEW CAMERA

The AUTOMATIC winch comes equipped with a heated rear view camera, also available as an option on a standard vehicle. The live camera feed is shown automatically in the information display when operating in reverse and can be activated independently if required.

# AUTOMATIC WINCH

#### OPTIMAL VEHICLE HANDLING WITH WINCH

The AUTOMATIC winch is perfectly integrated to the vehicle, as the central position of the winch pivot point ensures neutral driving behavior. Even with lateral stresses above the side mirrors, the BISON maintains its lateral stability and offers various possibilities for the preparation of steep slopes and difficult terrain.

#### IMPROVED OVERALL PERFORMANCE

With a maximum pulling force of up to 44.1 kN/4.5 t, the winch can be operated in manual or automatic mode. The automatic mode uses the maximum pulling force to achieve a higher grooming speed, while the eco mode employs a limited pulling force of up to 34.3 kN/3.5 t in order to reduce the fuel consumption.

#### CONCENTRATING ON THE SLOPE

The working speed can be adapted to suit the snow conditions. In all situations, the operator can override the automatic mode by activating a control on the joystick. The automatic mode allows the operator to devote his full attention to the slope surface.

#### AUTOMATIC WINCH AT A GLANCE

- » 4.5 t pulling force
- » Automatic WINCONTROL pulling force
- » Choice of automatic, eco, or manual mode
- » Cable length up to 1,200 m
- » Cable diameter 11 mm
- » Breaking load 150 kN

#### ADJUSTABLE PULLING FORCE

When at high grooming speeds, the pulling force does not have to be dialed back. Cable lengths of 850 m, 1,050 m or 1,200 m are available to fit any slope requirements. One particular advantage is the availability of the maximum pulling force regardless of the corresponding cable length on the drum. This design increases the life of the winch.



**KINEMATICS OF THE TILLER**

The tiller's improved kinematics make the BISON exceptionally easy to maneuver and allow park features to be modeled precisely.



**REAR ATTACHMENT FRAME**

The redesigned attachment frame on the BISON improves the trailing configuration of the tiller, allowing it to keep up with the growing demands of slope and cross-country trail preparation.



**NORDIC LINER**

The NORDIC LINER with automatic cutting angle compensation puts the finishing touches on cross-country trails and sets a precise and lasting track in the snow. Since the track setting plates and the tillers can be used independently, the use of the tillers can vary depending on the requirements and the condition of the cross-country trail.

# POWER TILLER

**NUMBER 1 IN SLOPE GROOMING**

The POWER tiller ensures deep, fine-grained tilling results and offers an exceptional trailing configuration thanks to a newly developed rear mounting frame with enhanced kinematics. Optimized tiller teeth ensure unprecedented slope quality and lasting, clear to see results.

**THE PRINOTH POWER TILLER**

- » Deep and fine-grained tilling results
- » Unique slope quality thanks to an innovative tiller shaft
- » Durable preparation result thanks to ideal conditioning of the snow mantle
- » Robust tiller teeth prevent premature wear and tear
- » Perfect slope surface and snow through put thanks to the anti-adhesive coating
- » Reduced maintenance thanks to simplified construction

**FOR PERFECT PISTES**

With a working width of 4.3 m and a high working speed, the BISON delivers exceptional grooming results. Its outstanding pushing capabilities and high-performance drive make it a truly powerful package that guarantees perfect slope quality.

**A DAZZLING LOOK**

The POWER tiller produces a perfect slope that lasts much longer than ever before. With its specially arranged teeth, the tiller can prepare perfect snow packs, facilitating snow infeed in the tiller housing and ensuring an even layer of snow.

**LOW-MAINTENANCE AND EFFICIENT**

Its optimized structure means that the POWER tiller requires low maintenance and it is really simple to operate and adjust. It can be locked in a rigid position from the cab without the operator having to get out. The tiller teeth are perfectly arranged, reducing fuel consumption, and extremely robust, preventing premature wear.



**UNIQUE PUSHING PERFORMANCE**

Optimal snow rolling in the MASTER blade thanks to the ideal shaping of the radius. This feature reduces the power needed and increases the amount of snow moved, achieving unique pushing performance.



**FLOATING POSITION**

The blade has an optional floating position that operates fully vertically and follows the desired unevenness of the ground.

# BLADE & TRACKS

**MASTER BLADE**

The tried-and-tested MASTER blade ensures good pushing performance and precise slope edges. The angle of the blade teeth facilitates the breaking up of ice and snow, which ultimately increases efficiency during slope preparation.

**PARK BLADE**

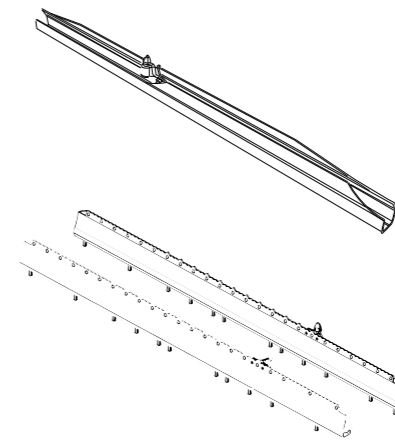
The high-performance park blade on the BISON X has been specially developed for park construction, with its newly designed blade teeth that leave a perfect finish even when the vehicle is backing up. The two side cutters help the operator to shape obstacles with precision and create sharp edges.

**TRANSPORT DEVICE ON THE PARK BLADE**

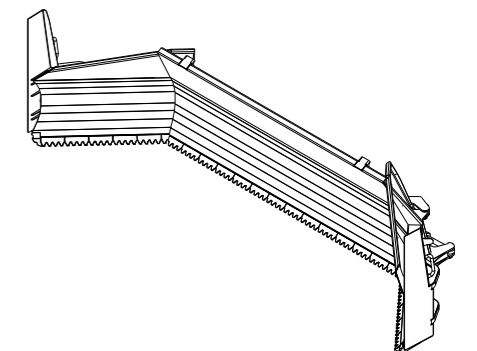
The side cutters can be removed very easily and can be fastened to the back of the blade when not in use. Additional hooks to transport park construction tools bring a new dimension of functionality to the blade.

**TRACKS**

If you are looking for climbing ability and grip, then PRINOTH tracks are the answer. Tracks are important because the performance potential of a snow groomer can only be fully exploited if they function perfectly. With the BISON and BISON X, you can choose between the tried-and-tested PRINOTH aluminum track and the optimized steel track.



Steel track  
PRINOTH aluminum track



Park Blade with side cutters



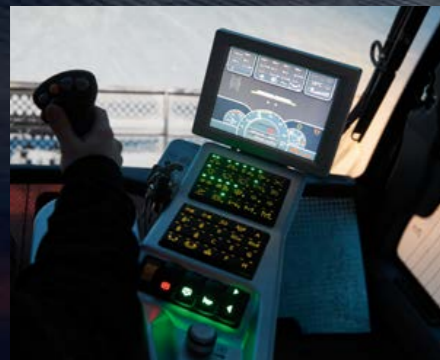
### PREMIUM LED LIGHT PACKAGE

The BISON vehicles can be quipped with a PREMIUM LED package. This premium light package provides optimum lighting, guaranteeing maximum visibility and improved productivity.



### SEARCH LIGHT

The search light allows the targeted lighting of specific or whole areas, making it easier to work during twilight and nighttime hours.



### ILLUMINATED DISPLAY

The 8.4 in illuminated display features high resolution and user-friendly color contrast that adapts to the lighting in different working situations. The keyboard is always illuminated, providing a clear view of all information and guaranteeing pleasant working conditions.



# LED IT SHINE

#### FRONT LIGHTING

- » Search light
- » Position lights with indicators
- » Directional spotlights
- » High and low beams
- » Directional spotlights on the mirror holders

#### REAR LIGHTING

- » Turning lights
- » Directional spotlights
- » Position lights with indicators
- » Directional spotlights on the mirror holders

STANDARD	PREMIUM
Halogen	Halogen
Halogen	Halogen
Halogen	LED
Halogen	LED
LED	LED

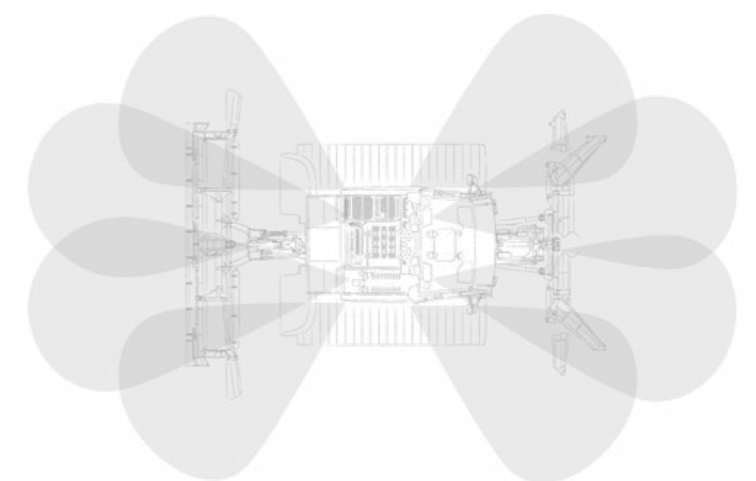
STANDARD	PREMIUM
Halogen	Halogen
Halogen	LED
LED	LED
Halogen	LED

#### PERFECT LIGHTING

The standard halogen lighting concept has been elevated to a whole new level of efficiency in the BISON in order to provide even better illumination of the vehicle's surroundings. The front lighting covers a larger distance and has uniform light distribution for the perfect overview, day or night.

#### PREMIUM LED LIGHT PACKAGE

For an even greater visibility, a LED light package is available. In comparison with standard halogen lighting, this cuts energy consumption by approximately 60% – for efficiency that pays off.



The energy-saving LED technology provides optimum illumination





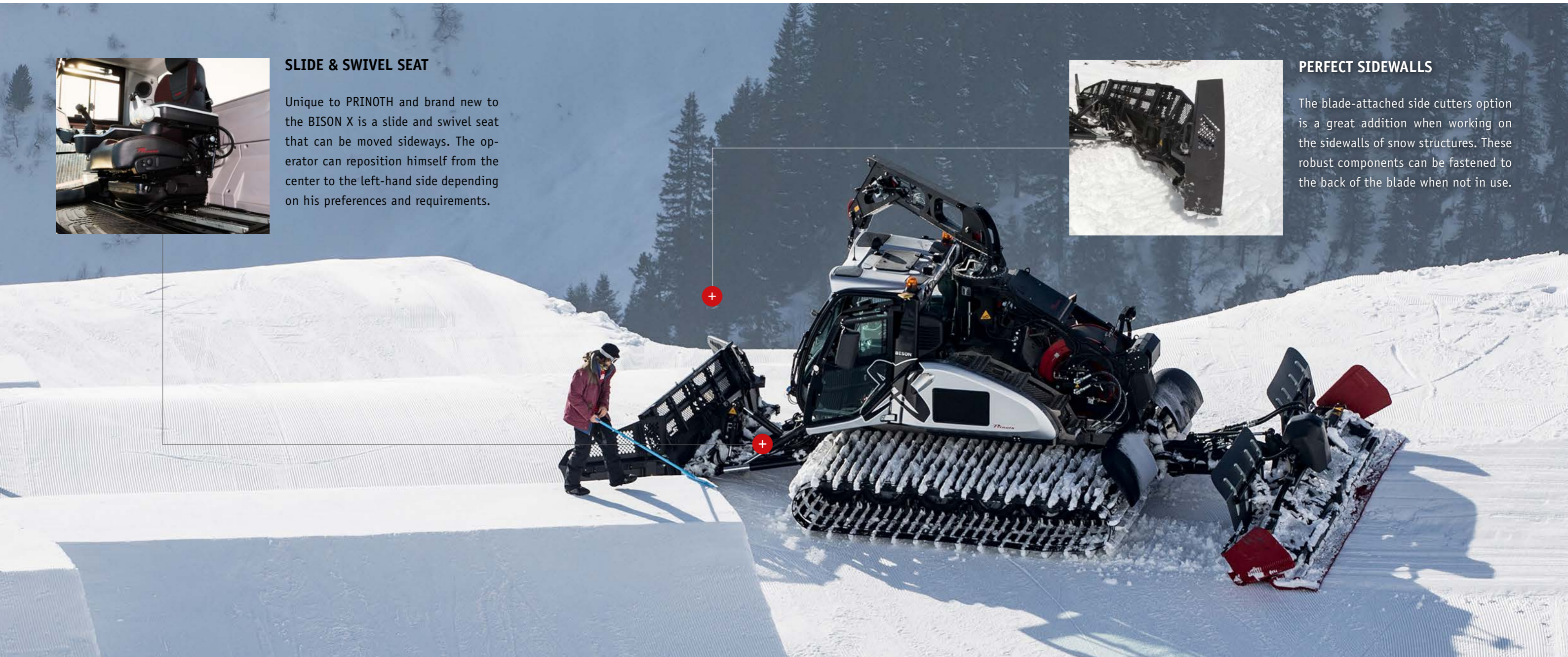
**SLIDE & SWIVEL SEAT**

Unique to PRINOTH and brand new to the BISON X is a slide and swivel seat that can be moved sideways. The operator can reposition himself from the center to the left-hand side depending on his preferences and requirements.



**PERFECT SIDEWALLS**

The blade-attached side cutters option is a great addition when working on the sidewalls of snow structures. These robust components can be fastened to the back of the blade when not in use.



# THE ULTIMATE XPERIENCE

**BISON X**

With its new features, the BISON X brings a whole new dimension to your park and boasts outstanding performance, unobstructed view, and an exceptionally comfortable operator's cab. Developed in partnership with leading park builders, this undisputed champion combines innovative features from freestyle and park building scenes to deliver perfect styling results.

**PERFECTLY SHAPED**

The high-performance park blade has targeted developed shape and arrangement teeth which conjure up a perfect finish in the snow. The blade is designed to achieve optimum results, even when used backwards, and can therefore significantly reduce work time. The side cutters ensure that obstacles are shaped to absolute precision with crisp, clean edges.

**PRECISION WORK**

A new surface treatment method with antiadhesive properties prevents snow from sticking to the blade. The side cutters of the blade help meticulous operators to carry out precision work and create sharp edges with ease. If they are not needed, they can be removed easily and stored in the transport device while the vehicle is in operation.

**360° VIEW**

With its unique sliding seat technology, the swivel seat can slide sideways, allowing operators to choose between the central and left-hand seat positions for the very first time. The seat can be adjusted by up to 500 mm and can be slid from the center to the left-hand side as required. Two gas pedals on the floor guarantee efficiency and operating comfort. Stiff necks are a thing of the past: the seat pivots up to 15° each side, providing unobstructed view from all angles.

**MANEUVERABILITY OF THE BLADE**

The maneuverability of the blade and side cutters allows the creation of sophisticated shapes when designing a park. The park blade has a working range of 128° and the tiller can move through 166°. Operators can easily construct and maintain perfect pistes using the joystick. The BISON X combines high performance with reduced maintenance costs and low fuel consumption.





**PUSH FRAME**

The geometric design of the push frame allows an optimum range of movement for the blade.

**PERFECT CONTROL**

The steering lever control allows you to keep a firm handle on everything. Comfortable work procedures and complete control over the vehicle guarantee pleasant and safe operating conditions.

**TILLING MODE**

With the BISON, pre-selection of the tilling mode (contact pressure, floating position, counter pressure) can even take place while the tiller is raised.

# FUNCTIONS

**CAN BUS CONTROL SYSTEM**

The new CAN bus technology connects all the control devices in the vehicle for efficient and reliable fault diagnosis. Faults can be resolved quickly and seamless operation guaranteed.

**SETTING THE DESIRED ENGINE SPEED**

The cruise control and manual throttle function allows the operator to set the desired engine speed and control both speed and steering behavior using the steering levers. If necessary, the default setting can be overruled at any time by using the foot pedal.

**CERTIFIED SAFETY FOR THE OPERATOR**

The BISON is ROPS certified to DIN EN 15059. In the event of a roll-over, the design of the operator's cab prevents excessive deformation and injury to the operator and passengers.

**IT'S ALL ABOUT RELIABILITY**

Designing a vehicle is a balancing act between reliability and the lowest possible weight. The loads experienced during operation were simulated using the finite element method (FEM) in order to achieve an optimum power/ weight ratio and good reliability.

**DETAILED DIAGNOSTICS ON THE DISPLAY**

The information display tells the operator of any possible malfunctions and gives instructions during the startup test. This facilitates troubleshooting and provides a targeted solution for the fault in the system.



# SNOW HOW

## A COMPREHENSIVE SOLUTION

Comprised of the FLEET MANAGEMENT and SNOW MEASUREMENT modules, SNOW HOW by PRINOTH is the analysis and consulting software that delivers proven benefits to ski areas worldwide. Developed in collaboration with our partners and customers, these modules offer cutting-edge technology that provide precise and comprehensive values for increased productivity.

## FLEET MANAGEMENT

The FLEET MANAGEMENT Software developed by PRINOTH is invaluable when it comes to managing slopes and vehicle fleets. Precise data collection and exact vehicle monitoring allow for workflow optimization and efficient route planning, and consequently, resource and cost savings and increased efficiency. Efficient management requires proper information: vehicle status, working time, position, speed, engine and vehicle figures, as well as the winch status, tiller and lighting.

All of these are transmitted in real time and displayed in PRINOTH's own SNOW HOW software. Upon set up, the customer neither has to install a local server nor save and transfer the data, meaning he can focus completely on managing his fleet. The added bonus: snowmobiles, ATVs and other vehicles can also be fitted with the fleet management software. This means that a ski resort's entire fleet of vehicles can be monitored, and managed and optimized.

## SNOW MEASUREMENT

In cooperation with Leica Geosystems PRINOTH offers a satellite-based system which makes it possible to get the most accurate measure and visualization of snow depth. Based on Leica's renowned iCON Alpine System, the special software was adapted to the requirements of snow. A 3D model of the landscape without snow is the basis for the precise measurement of the snow depth, down to the nearest centimeter. An operator can see on a monitor installed in

the snow groomer the exact snow depth and the profile of the ground in real time. Therefore, during preparation, he can rely immediately on the data analyzed in real time from the GPS antennae and angle sensors. This means an optimization of snow management from production, to distribution, to preparation. PRINOTH's Snow Measurement System can be used on slopes, parks and ski jumps. The system can be installed on any type of snow groomer, regardless of the manufacturer.

## A SINGLE PLATFORM FOR ALL DATA

Information from both SNOW HOW modules is retrievable via a single user interface. Switching between different programs is no longer necessary, ensuring continuous workflow. Moreover, information featuring the snow-making data is also available with one click. Mountain Managers can now easily monitor all of their operations via PRINOTH's SNOW HOW platform.

## TECHNICAL DATA BISON & BISON X

### DIMENSIONS AND WEIGHT

Overall vehicle length	5,835 mm
Overall vehicle length with attachments	8,848 mm
Overall height without winch	3,008 mm
Working width	4,216 mm
Shipping dimension (length/ width/ height)	5,835 mm/2,440 mm/2,990 mm
Blade with sidewings open (Standard)	5,360 mm
Blade with sidewings open (Park)	5,674 mm
Blade with sidewings closed (Standard)	4,510 mm
Blade with sidewings closed (Park)	4,625 mm
Tiller with raised sidewings	5,100 mm
Tiller with lowered sidewings	6,200 mm
Vehicle weight with attachments alutracks, blade, tiller	from 9,894 kg

### PERFORMANCE

Max. speed	21 km/h
Turning radius	on the spot
Payload	1,000 kg

### ENGINE

Model	Caterpillar C9.3
Power output (ECE)	298 kW /406 PS @ 1,700 rpm
Max. torque	1,726 Nm @ 1,400 rpm
Displacement	9.3 l
Layout	In line 6 cylinder, direct injection, Common Rail
Exhaust emission standard	Stage IV/Tier 4 final
Emission regulation type	SCR + DPF
Fuel tank capacity	266 l
DEF tank capacity (AdBlue)	27 l

### DRIVE

Drive pump	145 cm <sup>3</sup>
Traction drive	107 cm <sup>3</sup>

### ELECTRICAL SYSTEM

Operating voltage	24 VDC
Starter	24 VDC
Generator	28 VDC/250 A
Battery	2x 12 VDC/135 Ah
Starting capacity	1,000 A (EN)

### CABIN

Operator seat (Standard)	RECARO central drive with air suspension and height adjustment
Passenger seat (Standard)	1 full passenger seat storage box
Operator seat (Park)	Electrically adjustable sliding swivel seat with air suspension and height adjustment
Passenger seat (Park)	Instructor seat
Interior	8.4 inch color display Steering levers PRINOTH multifunctional joystick Tinted roof
	Electrically heated front, side and rear windows
	Exterior mirror electrically adjustable and heated
	Heated front wipers
	CD player, MP3 player, USB connection (MP3, WMA), Bluetooth
	Hands-free kit for mobile phone
	Front-side AUX input, DAB, DAB+, DMB, RDS
	Radio equipment-ready
	Automatic heating control
	Electro-hydraulically tiltable cabin
	ROPS certified according to EN15059

### LIGHTING

4 halogen working lights in the front  
 2 high/low beam lights  
 2 direction and positioning lights  
 2 turning lights  
 4 halogen working lights at the back  
 2 LED-lights on the mirror rails on each side  
 Park: complete serial LED lights

### INCLUDED FUNCTIONS

Hydraulic track tensioning  
 Adjustable downpressure  
 Cruise Control & throttle  
 On-board diagnostic  
 Multiple operator profiles  
 Rear alarm  
 ECS (Electronic Climate System)  
 Engine heater  
 Loading platform  
 Central locking

### PARK FUNCTIONS

Inclinometer  
 Tape measurement tool  
 Increased kinematics for park application  
 Side cutters for the Park blade

### OPTIONS

Full LED lights  
 Steel tracks  
 Additional alarm horn  
 Fleet Management  
 Snow Measurement  
 Front hydraulics  
 Brushguard  
 PRINOTH carpet  
 Front-end loader  
 Shaping tool  
 Instructor seat  
 Bio-oil charging ex work  
 Rear view camera on standard vehicles

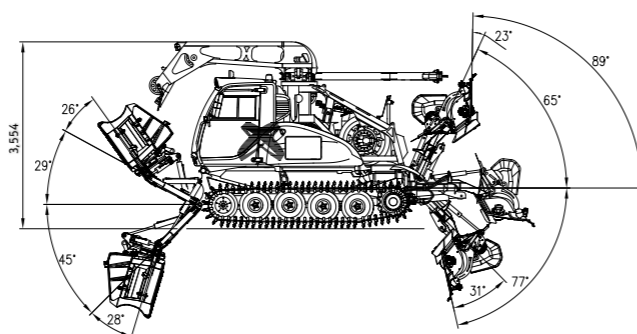
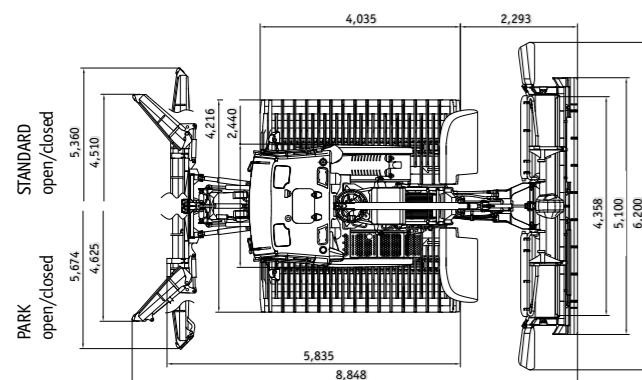
### AUTOMATIC WINCH

Pulling force	44,1 kN/ 4.5 t
Maximum cable length	1,200 m
Rope diameter	11 mm
Breaking load	150 kN
AUTOMATIC Wincontrol	auto/eco/manual

### ADDITIONAL EQUIPMENT

NORDIC LINER with automatic cutting angle compensation with or without track tiller  
 Trail grooming kit

Subject to modifications in the course of technological advancement.



**Pinoth**



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