



LEITWOLF

DRIVEN BY
INNOVATION

Pinotti



**PERFECT SLOPE QUALITY
UNIQUE TILLING POWER**

The POWER tiller promises long-term sustainable fun on the slopes. Constant optimization guarantees excellent preparation results. Ensure optimum slope conditions all day long. With our POWER tiller, you are guaranteed the best results in any snow conditions. Your customers will notice it as well and reward you with more frequent visits to your slopes.

**COST EFFICIENCY & ECONOMY
AREA COVERAGE AND CLIMBING ABILITY**

With a track width of 4.5 m, the LEITWOLF is 294 mm wider than comparable vehicles and, thanks to the large track working surface, has the best climbing ability. With the LEITWOLF you can prepare larger areas in a shorter period of time, saving time as well as fuel. We help you to keep an eye on cost effectiveness and efficiency!

**4.5 T WINCH TRACTIVE FORCE
OPTIMAL DRIVING HANDLING WITH WINCH**

The AUTOMATIC winch, with a tractive force of 4.5 t, ideally suits the LEITWOLF. The low and central position of the winch's pivot point ensures neutral steering behavior which is not influenced by the winch. Overall performance has been improved by perfectly distributing power between the winch and the traction drive.

**CLEAN MOTION
SUSTAINABLE TECHNOLOGIES**

With the latest SCR technology and 2,200 Nm and 375 kW (510 hp), the LEITWOLF is the world's first production vehicle to meet the new Euromot IIIB / TIER 4i exhaust emission standard: this means that fine particle emissions have been reduced by 90% and nitrogen emissions by 50%. We not only save you time and money, we also reduce emissions.

**BEST SERVICE QUALITY
ALWAYS THERE FOR YOU**

Our global service network is always there for you. We are accessible 24 hours per day, 7 days per week. On site visits by service technicians and the availability of original replacement parts guarantee that your operations remain problem-free throughout the season. PRINOTH – your strong partner!

**LEITWOLF
TECHNICAL DATA**

Do you need detailed information? All of the LEITWOLF's technical information as well as all details about its equipment can be found on the last page. If you are missing specific information or have special requests regarding equipment, your sales contact person would be happy to advise you.



POWER TILLER

The POWER tiller promises long-term sustainable fun on the slopes. Constant optimization ensures excellent slope quality and a deep and fine-grained tilling result.



PARALLEL OFFSET OF THE TILLER

The parallel offset of the tiller allows the LEITWOLF to keep the finishing comb parallel to the direction of travel. How to get the perfect finish even in difficult driving conditions.



TYPE OF TILLER TRAILING

The trailing configuration of the tiller can be selected and adjusted between parallel offset and free trailing mode depending on the situation. This allows the driver to adjust the tiller to suit the conditions on the slopes.

POWER TILLER

UNIQUE TILLING POWER

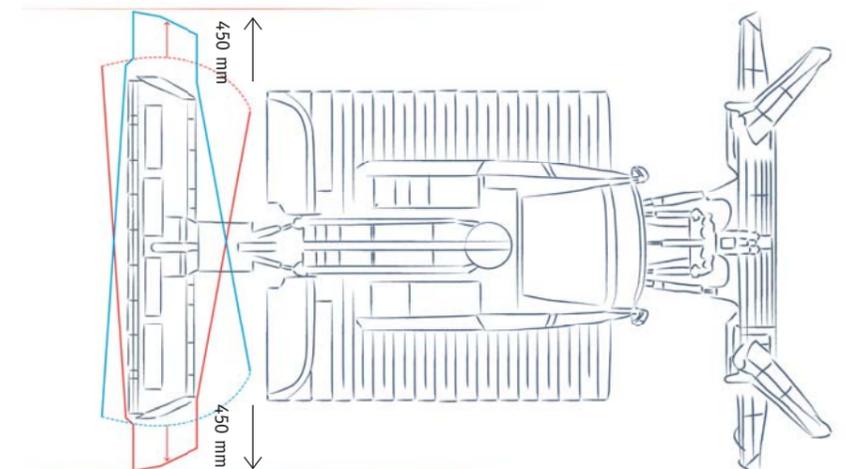
The POWER tiller promises long-term sustainable fun on the slopes. Constant optimization guarantees excellent preparation results. Ensure optimum slope conditions all day long. With our POWER tiller, you are guaranteed the best results in any snow conditions. Your customers will notice it as well and reward you with more frequent visits to your slopes.

THE PRINOTH POWER TILLER

- » Deep and fine-grained tilling results
- » Unique slope quality thanks to an optimized tiller shaft
- » Durable preparation result thanks to ideal conditioning of the snow layer
- » Robust tiller teeth counter premature wear and tear
- » Perfect slope surface and snow throughput thanks to the anti-friction coating
- » Reduced maintenance thanks to simplified construction

WORLD FIRST: PARALLEL OFFSET OF THE TILLER

For a perfect slope surface across its entire width and increased stability during transverse crossings. Thanks to its parallel offset, the tiller remains parallel to the direction of travel and ensures the vehicle can be driven steadily in a forward direction.





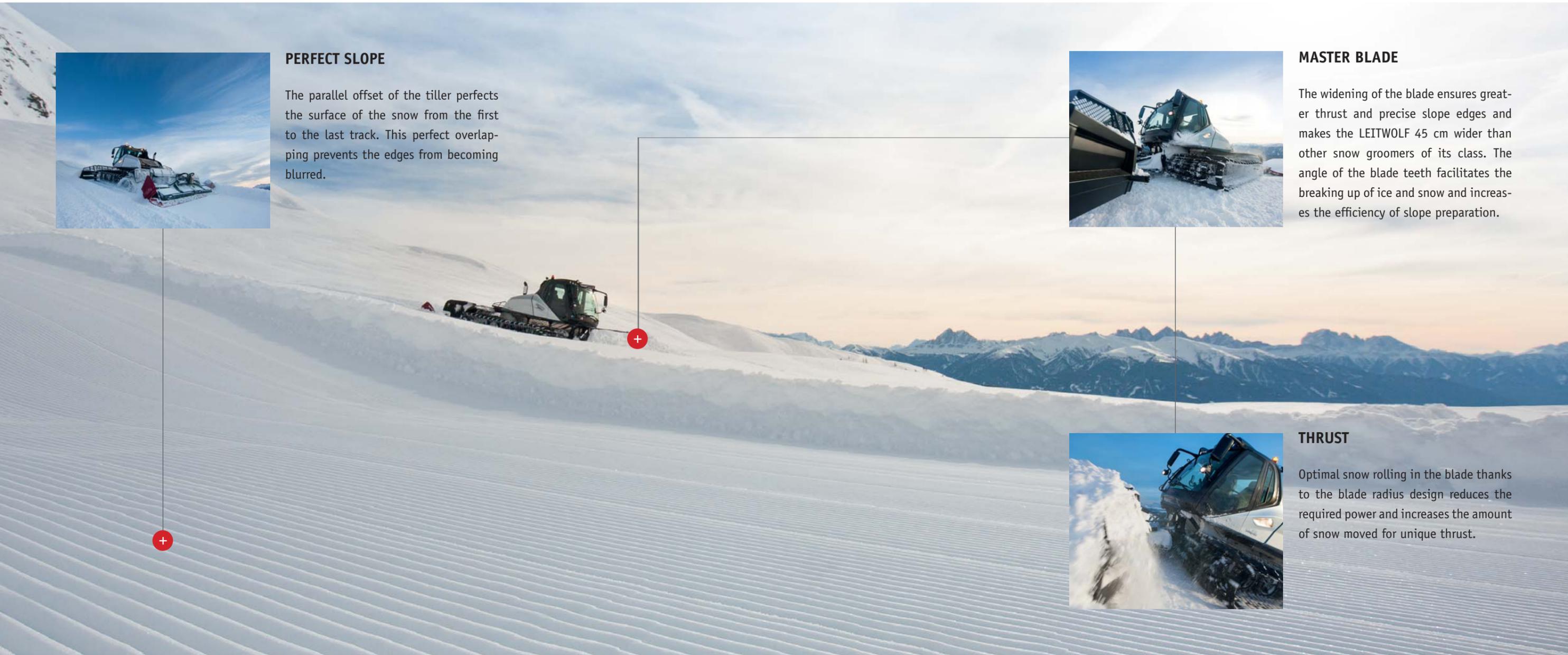
PERFECT SLOPE

The parallel offset of the tiller perfects the surface of the snow from the first to the last track. This perfect overlapping prevents the edges from becoming blurred.



MASTER BLADE

The widening of the blade ensures greater thrust and precise slope edges and makes the LEITWOLF 45 cm wider than other snow groomers of its class. The angle of the blade teeth facilitates the breaking up of ice and snow and increases the efficiency of slope preparation.



THRUST

Optimal snow rolling in the blade thanks to the blade radius design reduces the required power and increases the amount of snow moved for unique thrust.

AREA COVERAGE

MAXIMUM GROOMING PERFORMANCE AND THE BEST CLIMBING ABILITY

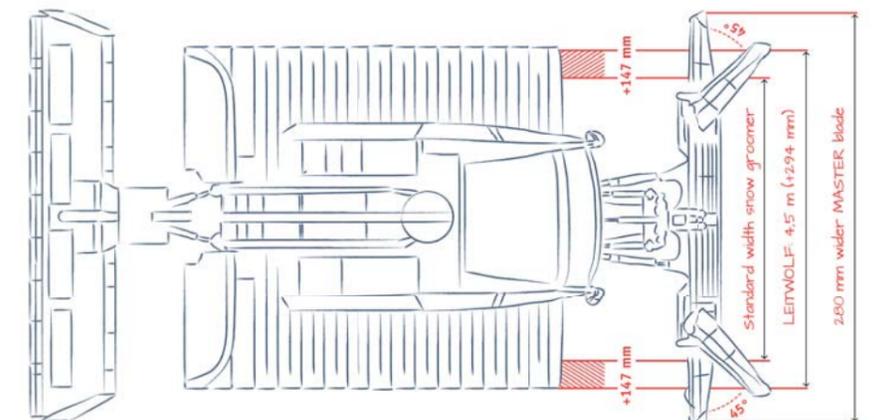
With a track width of 4.5 m, the LEITWOLF is 294 mm wider than comparable vehicles and, thanks to the large track working surface, has the best climbing ability. With the LEITWOLF you can prepare larger areas in a shorter period of time, saving time as well as fuel. At the same time, the widening of the MASTER blade ensures greater thrust and slope edges that are well-defined.

TOTAL COST OF OWNERSHIP (TCO) describes the approach with which PRINOTH helps you to assess incurring costs right from the start. Thus, not only the acquisition cost of a snow groomer is taken into consideration, but also all aspects of later use such as fuel, repairs and maintenance, in order to be able to identify known cost factors or hidden costs in advance. In this way,

you see the total costs incurred by the purchase of a snow groomer until its resale or return.

OVERALL COSTS AT A GLANCE

We help you pay attention to cost efficiency and economy and show you what the costs of a snow groomer are, from acquisition to running expenses. With PRINOTH you have a strong partner at your side who can help you to work as cost-effectively as possible.





ROLL-OUT SYSTEM

The optional ROLL OUT system supports the pulling out of the winch cable in order to reach the anchor point. The looping design means that the cable is driven by a line load, which is gentle on the cable and has a positive impact on its lifespan.



REAR VIEW CAMERA

The AUTOMATIC winch is fitted as standard with a heated rear view camera in order to give the driver the necessary overview of the area behind the vehicle. The picture from the camera is shown automatically in the information display when engaging reverse operation.



HYDRAULIC WINDING SYSTEM

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

AUTOMATIC WINCH

OPTIMAL DRIVING HANDLING WITH WINCH IMPROVED OVERALL PERFORMANCE

The AUTOMATIC winch ideally suits to the vehicle. The low and central position of the winch's pivot point ensures neutral steering behavior which is not influenced by the winch. Even with lateral stresses above the side mirrors, the LEITWOLF maintains its lateral stability and offers various possibilities for the preparation of steep slopes and difficult terrain.

The variable maximum tractive force of up to 4.5 t can be managed both manually and automatically via the automatic WINCONTROL tractive force control. In automatic mode, the driver is offered various settings to choose from. Overall performance has been improved by perfectly distributing power between the winch and the traction drive. The assistance function allows the

driver to focus on the essential – creating the perfect slope.

THE AUTOMATIC WINCH AT A GLANCE

» 4.5 t tractive force

» Automatic WINCONTROL tractive force control

» Rope length up to 1,200 m

» Rope diameter 11 mm

» Breaking load 150 kN

WINCH TRACTIVE FORCE STEPLESSLY ADJUSTABLE

Even at high grooming speeds, the tractive force does not have to be dialed back, and is steplessly available. With varying rope lengths of 800 m, 1,050 m and 1,200 m, you can adapt perfectly to different slope lengths. One particular advantage is the availability of the maximum tractive force regardless of the corresponding rope layer on the drum. This guarantees fast and efficient work.



AD BLUE / DEF

The AdBlue additive/ DEF (diesel exhaust fluid) is squirted into the exhaust gas, where the SCR (Selective Catalytic Reduction) system causes a chemical reaction in which the harmful nitrogen oxide is split into harmless nitrogen and water vapor. This reduces nitrogen oxide emissions by around 50 %.



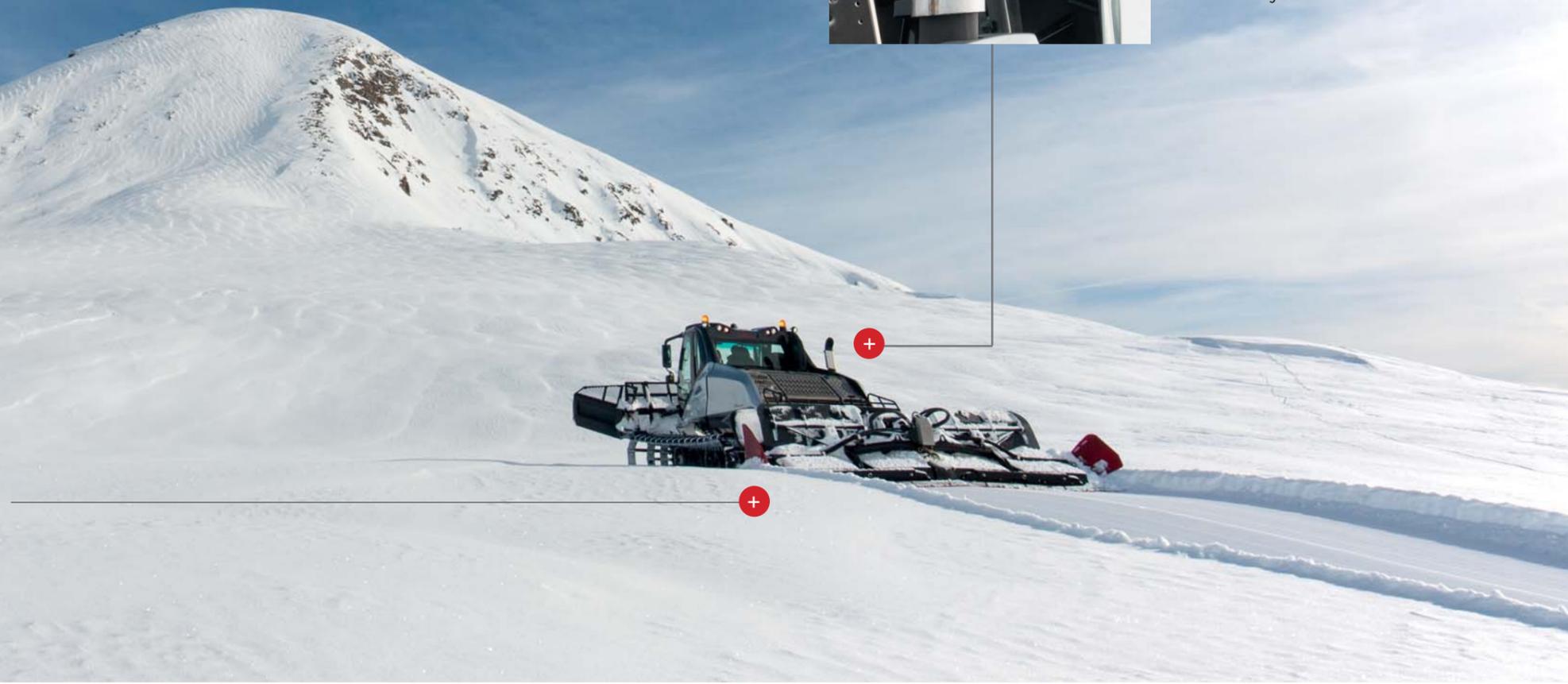
CLEAN MOTION

Your contribution to a clean environment. The world's first production vehicle with pioneering SCR emission cleansing. Fine particle emissions have been reduced by 90% and nitrogen emissions by 50%.



ENGINE

Mercedes 6-cylinder engine, powerful and high-torque. The new Euromot IIIB SCR technology ensures a considerable reduction in emissions through optimized combustion in the diesel engine along with a reduction in fuel consumption.



REDUCED EMISSIONS

SUSTAINABLE TECHNOLOGIES

Energy efficiency, protection of resources and environmentally friendly production processes are some of PRINOTH's primary concerns. The ISO 14001 certificate proves that PRINOTH has an effective system for minimizing its environmental impact and therefore making an important contribution towards the sustainable protection of the environment. With CLEAN MOTION, PRINOTH

is fulfilling the demands of ecological and economic sustainability in snow grooming. Using sustainable technologies and efficient snow groomers, PRINOTH is contributing to making the whole process more environmentally-friendly.

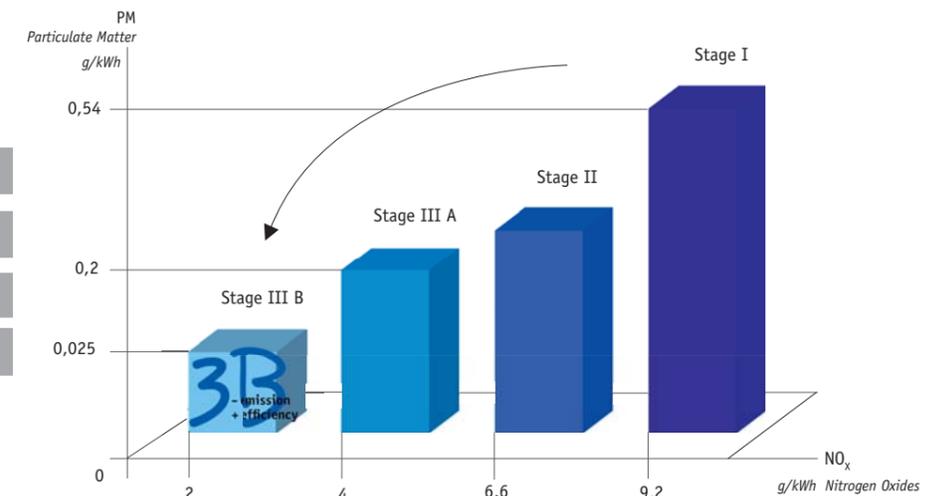
ENVIRONMENTALLY-FRIENDLY MOTORIZATION

With the latest SCR technology and 2,200 Nm with 375 kW (510 hp), the LEITWOLF is the world's first production vehicle to meet the new Euromot IIIB / TIER 4i exhaust emission standard: this means that fine particle emissions have been reduced by 90% and nitrogen emissions by 50%.

POWERFUL AND HIGH-TORQUE

- » 6-cylinder engine series
- » 375 kW (510 hp)
- » 2,200 Nm at 1,300 min-1
- » 12.8 l displacement

Emissions Reduction Stage I - Stage III B





CABIN INTERIOR

The central seating position gives the driver a perfect view. The cabin can be entered and exited from both sides, which keeps distances short. The steering levels allow for each track to be individually controlled for precise and comfortable steering.



ERGONOMIC DISPLAY

8.4" display for the intuitive representation of the required information. Multi-function joystick for controlling the main vehicle functions with one hand. Navigation menu via central control dial and direct access keys incl. function feedback.



ROOF WINDOW & AIR CONDITIONING

The cabin is fitted with an optional fully-automatic air conditioning system, which ensures a pleasant driving environment. The cabin also boasts a new integrated roof window.

COMFORTABLE CABIN

LOVE YOUR WORKSTATION!

The central driving seat gives the driver optimal overview. The cabin can be entered and exited from both sides, which keeps distances short. The cabin is fitted with an optional fully-automatic air conditioning system, which ensures a pleasant driving environment. The cabin also boasts a new integrated roof window. Standard cabin and window heating en-

sure a comfortable environment and un-

ERGONOMIC CONTROL ELEMENTS

With the 8.4" display, you have all the required information perfectly in sight. The primary vehicle functions can be controlled with one hand thanks to the multi-function joystick.

The navigation menu shows up via a central control dial and direct access keys incl. function feedback. The information display tells the driver of any possible malfunctions and gives instructions during the startup test. This facilitates troubleshooting and provides a targeted solution for any fault in the system.

SETTING THE DESIRED ENGINE SPEED

The CRUISE CONTROL function allows the driver to set the desired engine speed and control both speed and steering behavior using the steering levers. The default setting can be overruled at any time by using the foot pedal as and when required.





RAISING AND LOWERING THE UNDERCARRIAGE

The track working surface can be increased or reduced by raising or lowering the undercarriage. Raising the undercarriage increases maneuverability, while lowering it increases climbing ability.



THRUST & CLIMBING ABILITY

With a width of 4.5 m, the LEITWOLF is the widest snow groomer in its class and achieves the best thrust. The greater the track working surface, the better the climbing performance as a result of the reduced ground pressure.



BOGIE WHEELS & FENDERS

The optimization of the bogie wheels significantly reduces the weight for even better climbing ability and lower fuel consumption. New fenders in a modern design prevent snow from being thrown over the tiller.

ACTIVE UNDERCARRIAGE

REDUCING AND INCREASING THE TRACK WORKING SURFACE

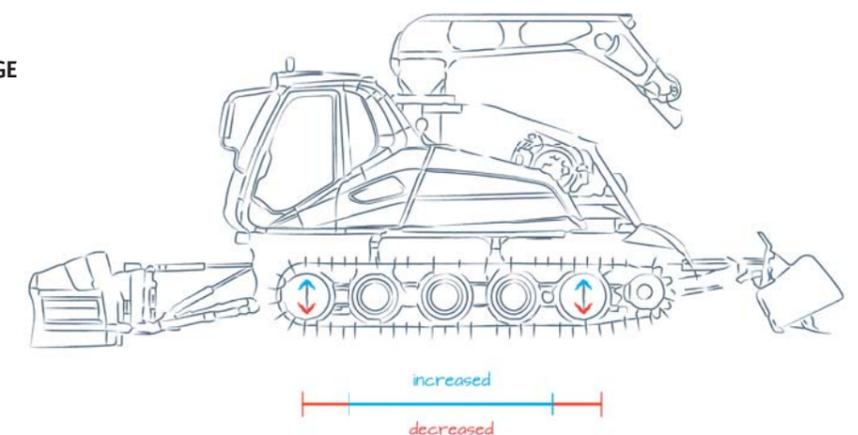
The track working surface can be increased or reduced by lifting the undercarriage. Decreasing the working surface improves maneuverability, while increasing it improves the vehicle's climbing ability and thrust, which is further improved by the vehicle's low center of gravity.

MORE POWERFUL ENGINE, LESS FUEL CONSUMPTION

The new generation of pumps from Bosch Rexroth works in combination with improved tubing to optimize efficiency in the drive train and therefore provides better power transmission. Thanks to higher oil flow volumes, the diesel engine can be used in the lower speed range without reducing working speeds. This reduces fuel consumption.

THE BENEFITS OF THE ACTIVE UNDERCARRIAGE

- » Reduction and increase of the track working surface by lifting and lowering the undercarriage
- » Optimized maneuverability
- » Maximum climbing ability
- » Improved thrust
- » Ideal terrain adaptation



Increased or decreased track working surface



TILLING MODE

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



EATON BLADE CONTROL

Various settings allow the drivers to adapt the machine to perfectly suit their way of working, reducing fuel consumption.



FLOATING POSITION & SHAKING FUNCTION

The floating position of the blade works by tilting both completely vertically and horizontally, following unevenness of the ground. The shaking function prevents snow from sticking to the blade.

FUNCTIONS

INDIVIDUALLY CUSTOMIZABLE BLADE CONTROL SETTINGS

Various blade control settings allow the drivers to adapt the vehicle to perfectly suit their way of working. This can control both the movement speed as well as the braking and start-up behavior of the movements. The diesel engine can be used in the lower speed range without reducing working speeds. This solution reduces fuel consumption.

REVOLUTIONIZED VALVE TECHNOLOGY

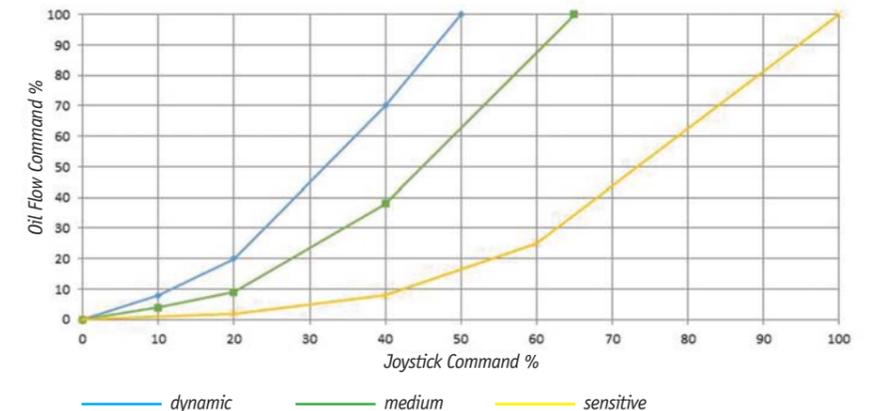
With the LEITWOLF, PRINOTH is revolutionizing the concept of valve technology, improving serviceability to a large degree. The number of different replacement parts is reduced by the use of fewer different hydraulic components, which is primarily demonstrated in terms of service costs and helps the customer to reduce what they spend. A diagnosis program electronically

monitors the valves and reports their status and failures to help the driver easily identify a potential problem and quickly resolve it.

EFFICIENCY THANKS TO INTELLIGENT POWER DISTRIBUTION

The ability to adjust the tilling power as necessary releases energy reserves to power the vehicle. The driver can individually adjust the division of power between the tiller and the vehicle.

Figure: unique and individual blade control



Different settings allow the drivers to adapt the machine to perfectly suit their way of working



XENON

The premium light package with full Xenon lighting perfectly illuminates the area around the vehicle and far beyond the working area.



ILLUMINATED DISPLAY

The transreflective display is easily legible even when exposed to direct sunlight. The keypad is also illuminated day and night, offering an easy view of all information.



SEARCH LIGHT

Search lights allow the targeted lighting of individual points, facilitating work at night.

BEST LIGHTING

PERFECT SIGHT WITH XENON

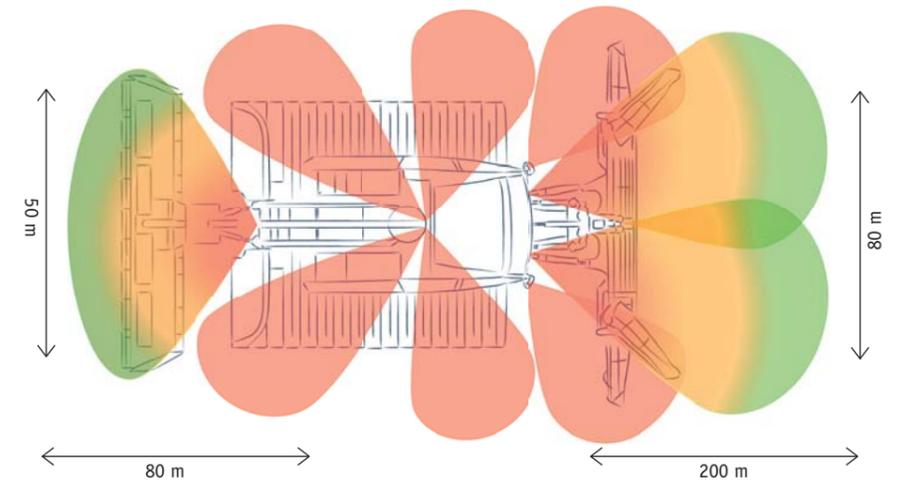
The premium light package with full Xenon lighting perfectly illuminates the area around the vehicle and far beyond the working area. Instead of halogen lighting, Xenon can also be selected for use on the mirror holders. Search lights allow the targeted lighting of individual points, facilitating work at night.

COMING HOME – LEAVING HOME

The Coming Home – Leaving Home function lights your way to the vehicle and back from the vehicle, ensuring perfect visibility. When unlocking and locking the vehicle, the side lights are activated automatically to enable the driver to safely approach or leave the vehicle.

PERFECT VISIBILITY EVEN AT NIGHT

In order to reduce the contrast between the brightly-lit cabin interior and the dark night landscape, the driver can select red ambient lighting in the cabin. The dimmed light allows eyes to relax, significantly improving the perception of the nighttime landscape outside.



The values are typical values. As a result of technical changes, variations are possible at any time



OUR SERVICE

ALWAYS THERE FOR YOU

Daily contact with our customers and ongoing training mean that our worldwide service partners can guarantee expert support and technical assistance during inspections, repairs and maintenance work. We are accessible 24 hours per day, 7 days per week. On site visits by service technicians and the availability of original replacement parts guarantee that your operations re-

main problem-free throughout the season along with the best quality.

BY PROS FOR PROS

Knowledge means reduced costs. In order to pass on knowledge about the efficient operation of our snow groomers, we offer in-depth training sessions for drivers and technicians

and support you in using your resources purposefully. Exchange of knowledge with our customers allows us to include your requirements in our future development. PRINOTH – your strong partner!

MAINTENANCE AND CHECK-UP

The preconditions for cost-optimized snow grooming is proper maintenance and rapid vehicle repair. Cut your operating costs through early fault diagnosis and thereby increase the lifespan and reliability of your snow groomer. We offer quick and reliable service to ensure that your vehicles are 100% ready to use during winter times.

COMPETENT PARTNER

All of our snow groomers are geared towards practical everyday needs, and, because of their customized configuration, the most varied requirements can be met. PRINOTH views itself as a competent partner for which top service and close customer relations are the highest priority level.



LEITWOLF - TECHNICAL DATA

DIESEL ENGINE

Mercedes model	OM 460 LA
Exhaust emission standard	EPA TIER 4 i (Euromot III B)
Turbo diesel direct injection and intercooling, high pressure injection system with individual injection pumps and fully electronic engine management	
Number of cylinders	6 in line
Total displacement	12,820 cm ³
Engine power	375 kW (510 hp) at 1,800 rpm
Max. torque	2,200 N•m at 1,300 rpm
Fuel tank capacity	260 l
AdBlue	40 l
DEF tank capacity	

WEIGHT

Total weight including tracks, blade and snow tiller	11,175 kg
Winch	13,409 kg

DRIVER'S CAB

Recaro driver's seat
 2 Recaro passenger seats
 Specially developed joystick
 Lever control
 Central position of the driver's seat
 8.4 inch screen with USB interface
 Unobstructed view to tracks and blade wings
 Radio with CD, USB connection and stereo speakers
 Prepared for radio transceiver device
 Warm water circulating air heating and exhaust fan with automatic temperature regulation
 Electro-hydraulic tilting driver's cab
 ROPS tested according to EN 15059
 Fully automatic air conditioner (optional)

TRANSMISSION

Drive pumps	175 cm ³ Bosch Rexroth BR 40
Drive motors	125 cm ³ Bosch Rexroth
Gearbox	Bosch Rexroth

WINDOWS/OUTSIDE MIRRORS

Electrically-heated front, side and rear windows
 Outside mirrors electrically adjustable and heated
 Heated front windshield wiper blades

ELECTRICAL SYSTEM

Operating voltage	24 V
Batteries	2 x 12 V – 180 Ah
Starting capacity	1,000 A according to EN
Light machine	150 A

DRIVING CHARACTERISTICS

Turning radius 0 (around its own axis)
 Climbing ability depending on the snow conditions up to 100%
 Speed 22.5 km/h
 Individual configuration of the driving characteristics

LIGHTING

6 xenon front lamps consisting of:
 2 dim lights
 2 travelling lights
 2 working lights
 2 xenon rear work lamps
 2 flashing lights, position lamps and indicators
 1 search light

TILLER

POWER TILLER
 With quick-change system and hydraulic side wings

BLADE

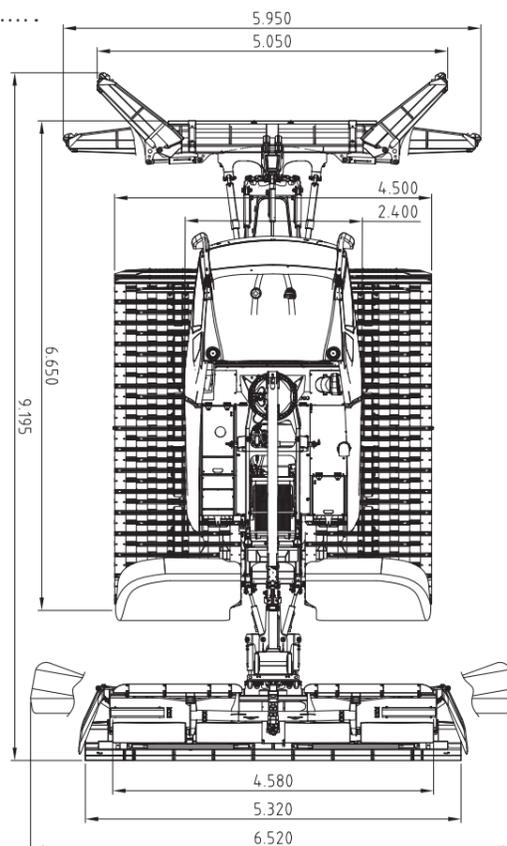
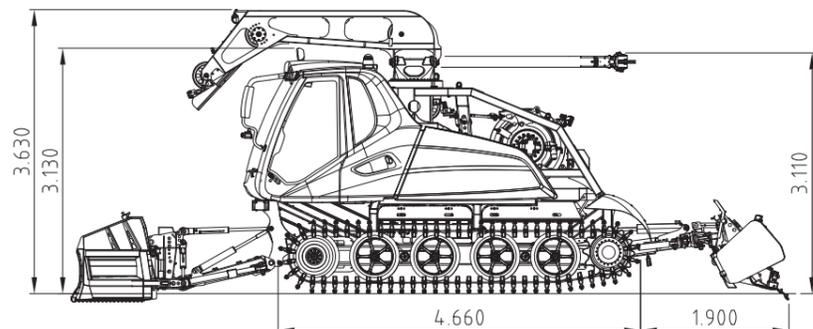
MASTER BLADE
 12-way front blade with quick-change system
 Individually adaptable control of the blade

AUTOMATIC WINCH

Maximum winch pulling force 44.1 kN (4.5 t)
 WINCONTROL (automatic pulling force control)
 Pulling force control continuously adjustable
 Constant across all rope layers
 Full pulling force
 (for vehicle longitudinal axis) +/-35°
 Reduction in the pulling force towards the side continuously adjustable
 Winch pivot at the centre of the vehicle
 Maximum rope length 1,200 m
 Rope diameter 11 mm
 Calculated rope breaking strain 150 kN

Subject to modifications in the course of technological advancement.

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Prinoth





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