



PistenBully 600 *Polar*

Developed for maximum thrust.

www.pistenbully.com

PistenBully®

Worldwide number 1.

In the Alps, in the Japanese skiing resorts on Hokkaido, on the Snowy Mountains in Australia or the Rockies in the USA: PistenBully is the world's number one for slope and cross-country ski-trail maintenance. Whether as a single machine or part of a fleet, in a small ski region or a large resort, PistenBully is at home wherever performance is key. With innovative solutions it is always one step ahead, hot on the trail of the latest developments and trends.

For all those who expect more.





A new performance benchmark.

Thanks to its enormous thrust, its 490 hp performance and a 4.60 m clearing blade, the PistenBully 600 *Polar* allows you to push up to 40 per cent more snow.

With its powerful engine and perfectly coordinated components, it offers performance without compromise. The driver has a handle on every situation from within his spacious cab.

You will be the envy of many in this workstation.

Just one glance inside the cockpit and it becomes clear: it's all about the driver. From his seat to his steering wheel, every little detail has been designed specially to suit the needs of the driver. He is given plenty of space and can keep an eye on all things at all times.

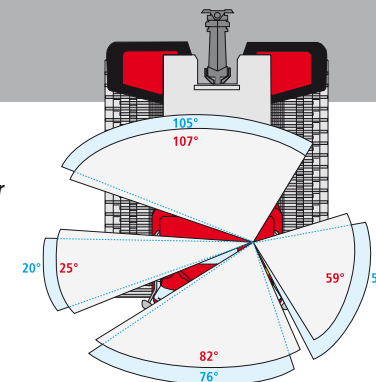
The PistenBully 600 *Polar* has an abundance of first-rate technical features, with the focus always on ergonomics, driving comfort and operational simplicity. Functional down to the very last detail.

Integrated heater outlets in the steering column ensure feet are kept warm. The doors also have heater outlets, to ensure heat is evenly distributed and visibility maintained on all sides.

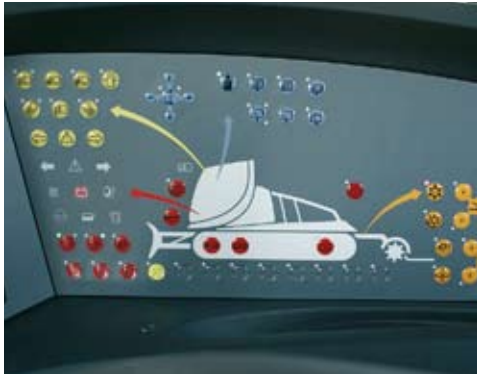
The PistenBully 600 *Polar* is also a genuine innovation in terms of safety. The new puncture-proof windscreen and driver's cab – which withstood impact forces of over 15 tonnes on its roof in the ROPS test – speak for themselves. Another bonus: the sound optimised sandwich construction keeps the driver's exposure to noise at a minimum.

We are confident that you will never want to get out.

Greater visibility with the PistenBully 600 *Polar*



The driver-friendly cockpit.



Clearly arranged and easy to use: all functions can be selected directly from the control panel – at the touch of a button and with no risk of error. Each function is clearly represented by a picture and its own colour. Clearly arranged and self-explanatory. Convenient to start up. The engine is started at the touch of a button.



The armrests on the ergonomic seat can be steplessly adjusted in every direction to ensure fatigue-free working and direct access to the screen: all functions can be selected from the new terminal control centre integrated into the centre armrest.



A handle on everything: the new PistenBully joystick is perfectly aligned to the driver's hand. All functions are just a thumb or a finger away.

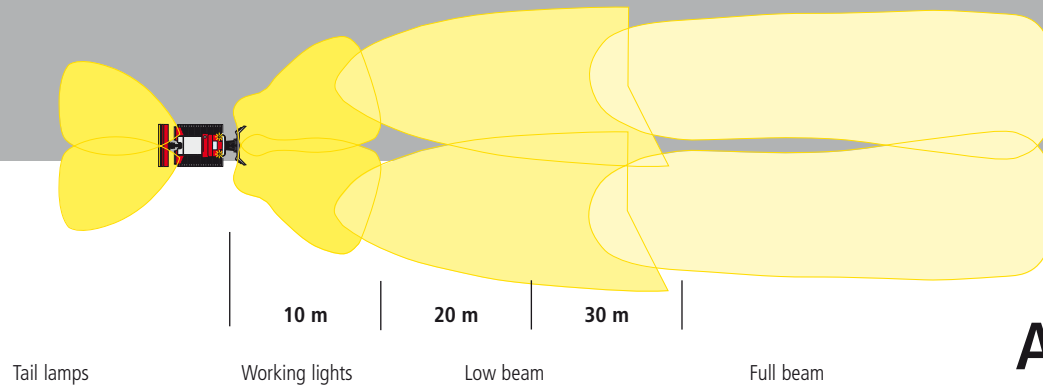


Steplessly adjustable, vertically and horizontally: the new semi-circular steering wheel sits perfectly in your hand. The multifunctional display gives the driver the most important operating data, such as travel speed and winch pulling force, at a glance.

Safe throughout the night.

A PistenBully 600 *Polar* must also be able to cope with extreme situations. All of the vehicle's electronic components have been designed for maximum availability, utmost reliability and excellent functionality. All components are under the driver's control and support him efficiently in every task.





A lighting concept that leads the way.



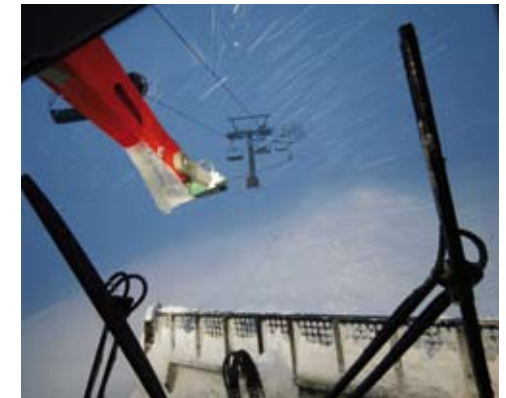
Everything is under control: the touch screen not only displays all important information, but also offers rapid on-board diagnostics. All functions are controlled centrally via the PSX host computer. From output and energy management, through the engine, to the drive and tiller pumps. Monitoring of all sensors and actuators offers optimum reliability.



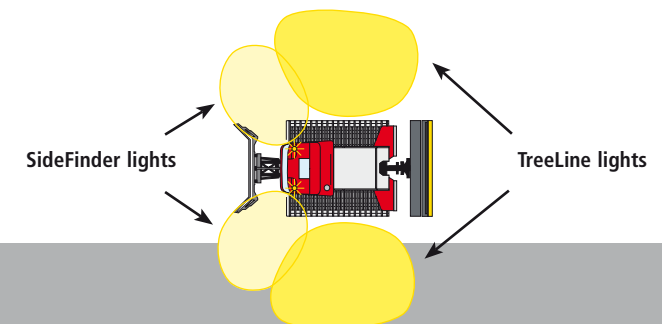
Everything at a glance: at night, the control elements are illuminated in blue, making them easily visible without tiring the eyes.



Comfortable: simply click on the remote control to unlock both doors and the interior lighting is automatically activated, as is the engine compartment enabling service work when out and about.



As bright as day, even at night: the pioneering lighting concept offers optimal visibility to the front and rear – with xenon headlights and TreeLine lights as options. The series-production SideFinder lights illuminate the edges of the clearing blade from the rear as well as from the side.



Power and technology without compromise.

Forcefully master every situation, even on the most extreme terrain. The PistenBully 600 *Polar* is an excellent climber thanks to its optimum weight distribution. It offers not only more power but also greater safety and comfort. The new main frame is

extremely torsionally rigid and has been designed for thrust operation and a long lifetime. The hydraulics are proportionately controlled to enable completely accurate operation even in the most adverse conditions.



For keen analysts.

Maximum operations, minimum costs. As prices rise, less fuel consumption is actually more. In short, PistenBully helps reduce operating costs.



Engine and equipment.



Proven technology, new power: the new Mercedes-Benz OM 460 LA with six cylinders and a 12.8-litre displacement produces 360 kW (490 hp) – serious power on the slopes. It is environmentally friendly in accordance with Euromot 3A and yet still has sufficient power reserves. Last but not least, it has a massive 2,200-Nm torque.



More staying power: a 220-litre fuel tank and reduced consumption ensure long operating times. An optional extra tank increases fuel capacity to 300 litres to provide sufficient reserves even for extremely long operations.



Distinct bonus: safe transportation of pre-briefed operating personnel in accordance with DIN 30770 and ÖNORM 9850. When the transport platform is folded down, the PistenBully 600 *Polar* has a total usable load surface for up to 1,500 kg.



The power hydraulics with proportionally controlled high-performance valves and integrated CAN technology ensure that the tiller is raised and lowered smoothly at any speed. The large tiller pump provides the AlpineFlex tiller with optimum power and rotational speed even under tough operating conditions, thereby guaranteeing optimal slope quality.

// The winch control functions sensationally and gives a real edge together with enhanced performance when operating on the diagonal.



Arno Steiner, Davos ski resort, Parsenn, Switzerland



Onwards and upwards.

For a long time now, winch machines have been used not only in steep slope applications, but also especially for pushing large quantities of snow uphill. The PistenBully 600 Polar with winch is ideally suited for this type of work.

The technical highlights: gentle rope winding, sensitive control and compact construction. The winch has a pulling force of up to 4 tonnes and offers high safety reserves.

Thanks to its hydraulic slewing ring drive, the winch can be rotated about 360°. The driver can, therefore, work at any position on the mountain. The travel speed and pulling force have three settings and are electronically controlled. You decide for yourself.

The early warning RopeFailureDetector reports even the smallest strand breakages, giving you the opportunity to inspect the rope in good time.

// With the new winch, the rope does not have to be wound up quite so often, allowing us to concentrate more of our effort on slope preparation. //



Bruno Kohler, Warth ski resort, Austria



Without active winch control

With active winch control

Guidance upwards

Guidance upwards

750 kg force

Active winch control can be switched on

Continuation curve travel

750 kg force

750 kg force

Downwards travel
Steering requirement downwards

750 kg force

Downwards travel
Steering requirement upwards

For more track accuracy and better steep slope performance.

The PistenBully 600 Polar is available with optional active winch control. An ingenious system operates in the background under which, depending on the selected pulling power and steering wheel angle, shear force is generated

on the winch via the powerful slewing gear drive. The winch itself helps to achieve steering control on the slopes. It couldn't be simpler to operate: the driver brings active winch control into play simply by adjusting the steering wheel angle. This function can be activated and de-activated.

When should the active winch be activated?

When steep slopes are being traversed or when changing direction on steep slopes.

The winch in close-up.



One for all: the joystick is the same for all machine types. The driver doesn't need to readjust. Quick and swift work: whether it's the winch pulling force setting or contact pressure of the tiller, the most frequent work positions are easy to find using the potentiometer with raster function.



The optional reversing camera guarantees a completely clear view and enables instant slope quality judgements to be made: even when reversing with winch, the driver retains a complete overview. The colour view on the camera is automatically superimposed on the display when reversing.





The all-round, carefree package.

Wherever you are, our service is always available. With more than 130 service facilities and local representations worldwide, rapid support and spare parts supply are guaranteed 24 hours a day, 7 days a week, 52 weeks a year. In addition, a highly efficient concept comprising training, consultancy, communication and exchange of experience ensures your independence above all else. We have gone for a service concept that incorporates you. A partnership with the promise of success. You and us.



And those who know us also know that PistenBully are not only low on service; they are also high on economy. In development, we have already tackled the need for outstanding performance, long lifetime and low ongoing costs. A PistenBully pays. Today, tomorrow and beyond.

Technical data PistenBully 600 Polar / PistenBully 600 W Polar

Dimensions

Width without tracks	2,500 mm	98.4"
over combined tracks	4,206 mm	165.6"
over steel tracks	4,206 mm	165.6"
over AlpineFlex tiller with flaps	5,500 mm	216.5"
over hydraul. foldable side flaps (optional)	6,400 mm	252"
Height above winch, ready for operation	3,280 mm	129.1"
Height with tilted driver's cab	3,360 mm	132.2"
Overall height	2,880 mm	113.4"
Length with All-Way blade and AlpineFlex tiller	9,130 mm	359.5"
Ground clearance	350 mm	13.8"
Loading platform	2,250 x 1,920 mm (4.3 m ²)	88.6" x 75.6" (5.1 yd ²)

Engine

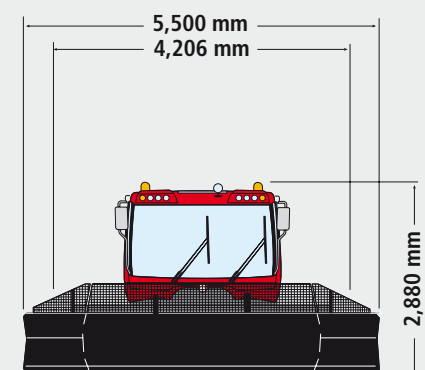
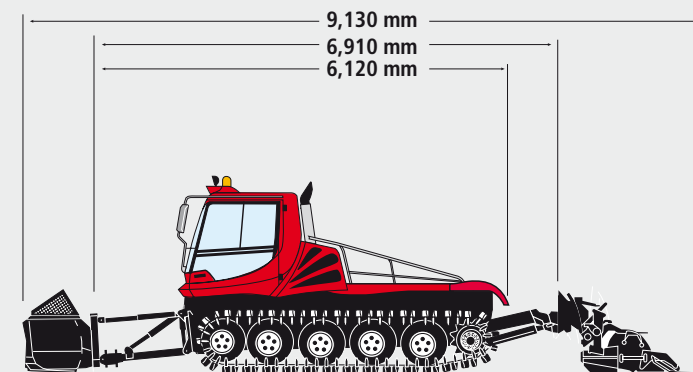
Type	Mercedes-Benz OM 460 LA
Cylinders	6
Displacement	12.8 l / 12,800 cc
Power output (ECE)	360 kW (490 hp)
max. torque	2,200 Nm at 1,300 rpm
Fuel consumption	from 20 l/h
Fuel tank capacity	220 l (80 l additional tank)
Exhaust emission standard	EUROMOT 3A and EPA TIER 3

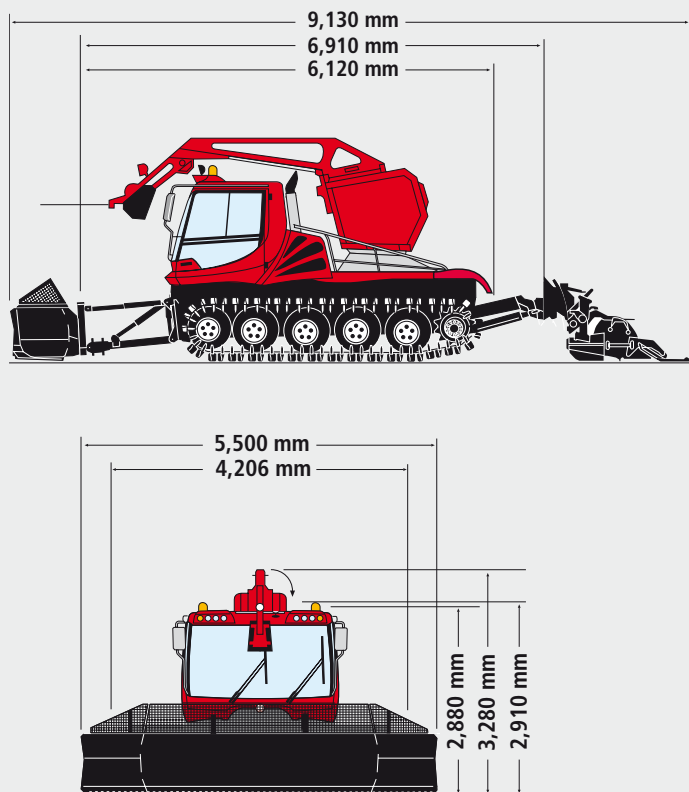
Brakes

Non-wearing by means of hydrostatic drive train.
Two multi-disk brakes as parking brake.

Electrics

Low voltage system	24 V
Alternator	28 V / 140 A
Batteries	2 x 12 V / 135 Ah
Cold-start rating	600 A





Technical data PistenBully 600 Polar / PistenBully 600 W Polar

	PistenBully 600 Polar	PistenBully 600 W Polar
Weight		
Tare weight with combined tracks	8,045 kg / 17,740 lbs	10,115 kg / 22,300 lbs
Tare weight with steel tracks	8,685 kg / 19,150 lbs	10,755 kg / 23,710 lbs
Admissible total weight incl. add. equipment	12,500 kg / 27,560 lbs	12,500 kg / 27,560 lbs
Payload on platform without winch	1,500 kg / 3,300 lbs	2,500 kg / 5,510 lbs
Performance data		
Speed, continuously variable	0–23 km/h / 0–14 mp/h	
Speed in winch mode		0–17 km/h 3-stage / 0–11 mp/h 3-stage
Speed with winch mounted		0–20 km/h / 0–12 mp/h
Specific ground pressure with combined tracks	0.055 kg/cm ² / 0.78 psi	0.069 kg/cm ² / 0.98 psi
Specific ground pressure with steel tracks	0.059 kg/cm ² / 0.84 psi	0.073 kg/cm ² / 1.04 psi
Ø Ground coverage with AlpineFlex tiller	103,000 m ² /h / 25.5 acres	103,000 m ² /h / 25.5 acres
max. Ground coverage area with AlpineFlex tiller	126,000 m ² /h / 31.1 acres	110,000 m ² /h / 27.2 acres
Winch superstructure		
Rope pull		40 kN (4,080 kp), 3-stage
Rope diameter		11 mm / 0.43"
Rope length		1,050 m / 1148.3 yd
Usable rope length		1,000 m / 1093.6 yd
Rope breaking strain		129.8 kN (13,240 kp)
Drive rating at 40 kN pull		110 kW (150 hp)
Weight (winch, rope and superstructure)		1,900 kg / 4,180 lbs
Attachments		
Front	All-Way blade, Front snow-blower, SnowCutter, PipeMagician, Snow Bucket, Blade Loader	
Rear	AlpineFlex tiller, ParkFlex tiller, flexible Rear Compactor	

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