

PistenBully[®]

400 ParkPro 4F

PistenBully 400 ParkPro 4F
Creativity and perfection in the park



PistenBully®

Creativity and perfection for Pros

It was with a mixture of pride and curiosity that we presented the first PistenBully for the park in 2000. We were convinced at the time that sooner or later park would develop into a future market. Despite some highs and lows we have been proved right: ski resorts all over the world now rely on family parks, funslopes and pro parks to increase their appeal and gain a competitive advantage.

In this sector the 400 ParkPro was and is the first choice: it was developed in collaboration with the best park developers and shapers from the USA and Europe and is subject to continual refinement. Today it is a professional tool specifically tailored to the particular requirements of the park. The new ParkPro has the cleanest ever Tier4f engine technology – low environmental impact, economical and cost-effective to run. And so we are proud for a second time today and are thrilled to be able to present to you the 400 ParkPro 4F.



Jens Rottmair
Chief Executive Officer



On the couch: Jens Rottmair, CEO
Stefan Spindler, Head of Sales & Marketing
Nine Knights 2014, Livigno, Mottolino (Italy)



THE WAY YOU WANT IT!



The scene has spoken; we have listened.
The 400 ParkPro 4F was developed by pros for pros.
The perfect tool for creativity and perfection in the park.



PistenBully 400 ParkPro 4F

Creativity and perfection in the park

TOP By pros for pros

In the park there are different requirements on the vehicle. Alongside coverage, it is agility in the tightest spaces, precision, a large action radius and many park-specific functions that play a crucial role. That's why Kässbohrer has developed the 400 ParkPro 4F in collaboration with drivers, shapers, park designers and riders, to ensure it is the answer to their needs.

TOP The new SwitchBlade²

The second generation of the SwitchBlade gives shapers an innovative tool, making their work in the park easier, faster and more professional. The SwitchBlade reduces expensive and strenuous manual labour and opens up a whole world of new and more creative park features. More info on page 6 – 7.

TOP ParkFlexTiller with Flexlock

The ParkFlexTiller has been setting the benchmark for perfect slope quality for many years. We have integrated innovative functions into the ParkFlexTiller, specially designed for the everyday needs of the park, which facilitate completely new ways of working and make park modelling more efficient. More info on page 8 – 9.

TOP Cockpit

With the ParkPro 4F we have created a comfortable and functional home for the driver. You'll make it happily through the night with warm feet, an ergonomic seat and handy tools making your work a pleasure. Bluetooth ensures that drivers can always stay in touch with their team, while the surround sound system keeps the ParkPro pilots working at the right rhythm. More info on page 10 – 11.

TOP Joystick

A PistenBully has never been so intuitive to control. The joystick specially developed for the ParkPro 4F sets new standards in terms of operation and flexibility. We know that a tool is only as good as how it can be used in practice. More info on page 12 – 13.

TOP Responsibility

Winter sport depends on the next generation and on the development of new types of sport. We are committed to supporting the park scene and encouraging this growth process. It's the reason Kässbohrer supports the next generation of athletes and diverse events. We also invest in partnerships with companies and associations all over the world who share our commitment.

Reinforced
blade screen
with strap brackets

Vertical cutting edge on the wing

Backblading teeth with overlap
at wing hinge for better finish



SwitchBlade²

Twelve innovative functions – for effective park construction

⚙️ Pro Features

- SwitchBlade² – the widest and best park blade in the world, 5,91" wider side wings move more snow
- Straight blade position easily adjustable at the touch of a button, low and horizontal blade position for perfect reverse creation of kickers
- Longer cylinder on the push frame facilitates 137° manoeuvrability of the blade
- New quick-change system with gradient sensor for precise blade angle selection in the driver's cab

⚙️ Perfect finishes

- Newly developed vertical cutting edge for razor-sharp and right-angled side walls
- Unique drawing bar for precise smoothing of kickers
- Backblading teeth leave behind a perfect structure when grading the snow
- Reduced gap on the cutting bar creates a seamless transition from the middle section to the wing

⚙️ Practical tools

- The blade reinforcements and locks guarantee secure transport of snow guns
- Eyelets for attaching hooks and loops provide the means for transporting rails and boxes securely
- Folding and hydraulic transport forks mean one person can easily transport rails and boxes
- Adapter for trailer hitch – simple and convenient connection of trailers or sledges with the blade



The two side wings open automatically at the touch of a button and align precisely with the middle section.



The strong reinforced blade design makes transport of the massive double-kink box easy.



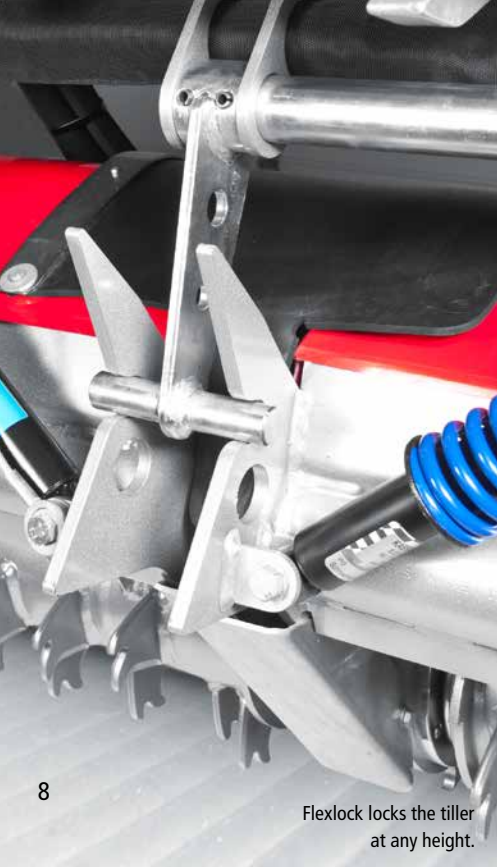
Precise cutting of kickers thanks to right-angled lateral cutting edge, reducing manual work



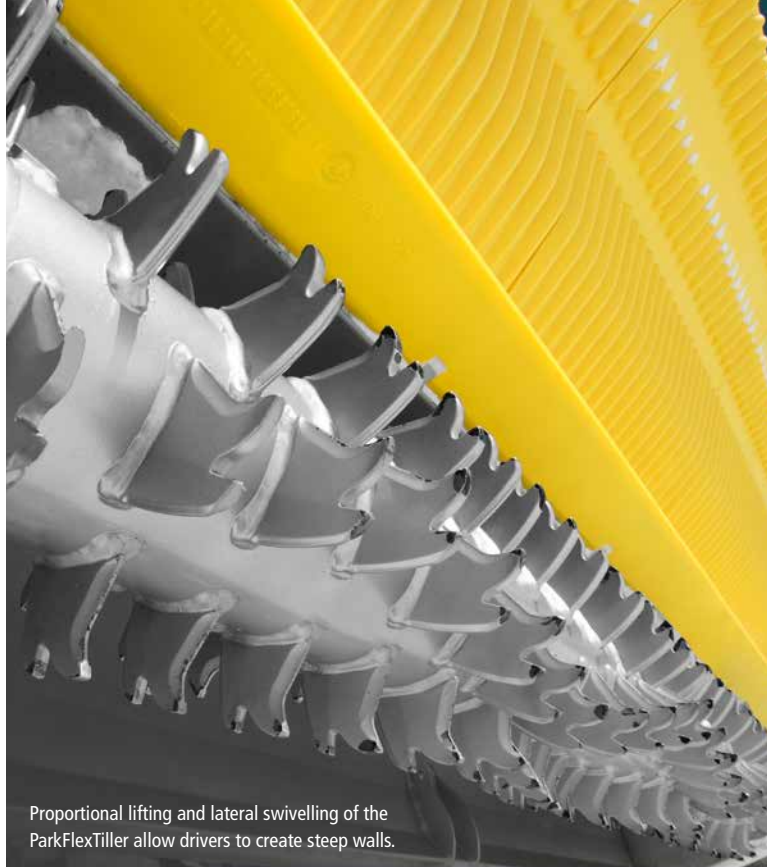
Folding forks



The SwitchBlade² is designed to distribute the energy from moving snow evenly across the whole vehicle frame. For maximum stability and thrust.



Flexlock locks the tiller at any height.



Proportional lifting and lateral swivelling of the ParkFlexTiller allow drivers to create steep walls.



The ParkFlexTiller leaves behind a perfect corduroy, and the individually folding side finishers facilitate effective work on varied terrain.

ParkFlexTiller

With hydraulic Flexlock & adjustable lowering speed

⚙️ Perfect snow quality in the park and on the slopes

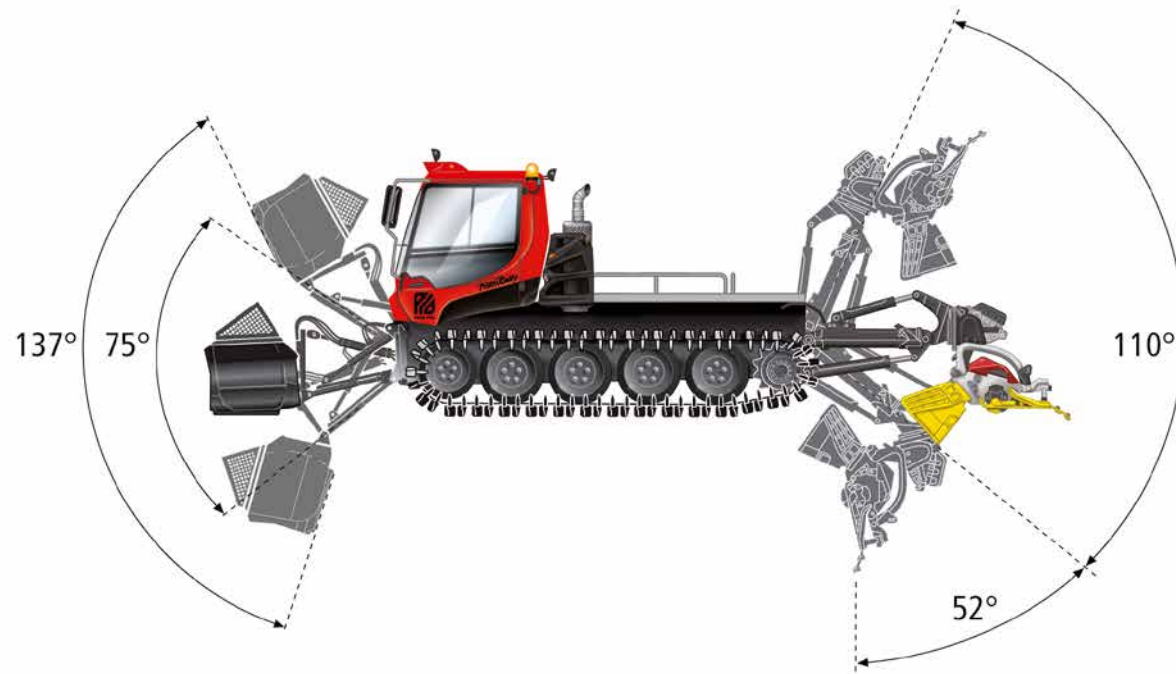
The ParkFlexTiller even impresses in the toughest conditions with its outstanding performance. The tiller shafts prepare the snow and ensure the best snow quality in the park and on the slopes. The result is an even finish with corduroy.

⚙️ Optimum adaptation in any situation

Well-thought-out modifications to the tiller guarantee outstanding snow grooming for parks and slopes.

⚙️ Inspiring performance

- ParkFlexTiller with Flexlock for seamless tiller control
- Proportional lifting and lowering function
- Individually folding side flaps with adjustable hydraulic cylinders for flexible work in the park and no berms on the slopes
- Lateral movement at any cutting height creates new tiller possibilities
- The powerful shock-absorbers guarantee the tiller's even contact pressure
- Low-wear tiller teeth made of fine-grain steel
- Service-friendly hydraulic valves simplify maintenance



Increased action radius

A new dimension in park building

The SwitchBlade² – combined with the new extended push frame – gives shapers a sensational and action radius of 137°.

The 400 ParkPro 4F has a new attachment carrier, which together with the lightweight Park-FlexTiller facilitates an impressive working range of 162°. Lateral swivelling movements in any position ensure precise work and allow drivers to create steep jumps.



Cockpit

Climb in, sound on, get to work!

Your home – day and night.

The extremely spacious driver's cab was built using Kässbohrer's tried-and-tested hybrid design. The cab is very stable and is ROPS-certified in accordance with EN 15059. The huge windows provide perfect panoramic visibility. Extensive sound-proofing measures in the undercarriage, the cab's roof and the exterior panelling create a quiet and pleasant working environment. There are two separate heat exchangers with fans to provide heat in the foot area and on the side windows in icy temperatures. The premium sound system creates that all-important vibe while you work, and you can stay in touch with your team at any time thanks to the hands-free equipment.

⊕ More comfort, new functions

- Premium sound system with subwoofer
- USB and Bluetooth audio ports
- Smartphone charger on the radio
- Hands-free system
- On-screen gradient display for blade, tiller and vehicle
- Premium air-sprung, non-slip, breathable driver's seat with heating and swivel function and much more
- Heated cab with optimised ventilation system
- On-board diagnosis with display screen
- Up to 6 dB lower noise level

⊕ Improved ergonomics

- Well-arranged cockpit with additional generous storage space
- New clear arrangement of instruments
- Higher resolution and brighter display

⊕ Safety

- ROPS-certified cab (15-tonne roof load)
- Break-proof windscreen
- Optional LED lighting package front and back
- Electrically operated side mirrors
- Large, heated windows for the best all-round visibility



Charger for smartphones, plus USB- and Bluetooth audio connection



Premium sound system with amplifier and subwoofer



Warm feet thanks to air blowers in the footwell



Integrated gradient sensors show the position of the blade and the vehicle in real-time.



Joysticks

The Bully under control

The joystick on the 400 ParkPro 4F was developed in collaboration with the world's best shapers and is a revolutionary innovation. The development focus was on intuitive operation, the integration of practical functions, plus perfectly optimized ergonomics for shapers. The joystick is programmable, enabling drivers to set the functions they want for all buttons. This makes long and challenging working days more efficient and pleasant for drivers.

⊕ Joystick

- Newly developed joystick for the ParkFlexTiller and the Switch-Blade²
- Straight blade at the touch of a button, ideal for backblading
- Flexlock for the ParkFlexTiller at the touch of a button
- Intuitive lowering and lifting of the tiller, minimizing imprint on contact with the snow
- Precise lowering and lifting of the side flaps, with the option of stopping the side flaps in any position
- Roll buttons for engine speed, tiller speed and down pressure

⊕ Stick control

- 3-stage sport mode for aggressive, normal or gentle response
- Stick control for direct handling and steering
- Potentiometer for travel speed



Ergonomic joystick for intuitive control by the driver



Drivers can individually assign all important functions on the joystick.



Stick control incl. potentiometer to regulate travel speed

400 ParkPro 4F drive train

Get ready for sport mode

⚙️ New drive train

The ParkPro 4F has radically increased thrust thanks to the new planetary gear (17:1). This enables professional work even in extremely steep landings, as well as effective and fast snow collection. For the first time, the drive characteristics of a PistenBully can now be individually tailored to the needs of the driver: sport mode for aggressive driving, normal or gentle when the situation requires.

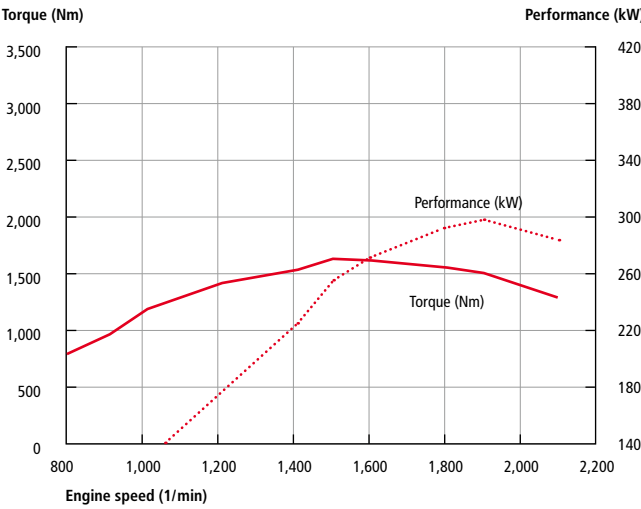
⚙️ Tried-and-tested drive unit

The powerful 6-cylinder inline diesel engine with high-pressure common rail injection features low fuel consumption combined with low noise and exhaust emissions. It complies with the Tier 4 final standard thanks to an exhaust gas after-treatment system: the SCR catalytic converter (combined with AdBlue) and the exhaust gas recirculation reduce nitric oxide emissions, while the diesel oxidation catalyst reduces emissions of carbon monoxide and hydrocarbons.

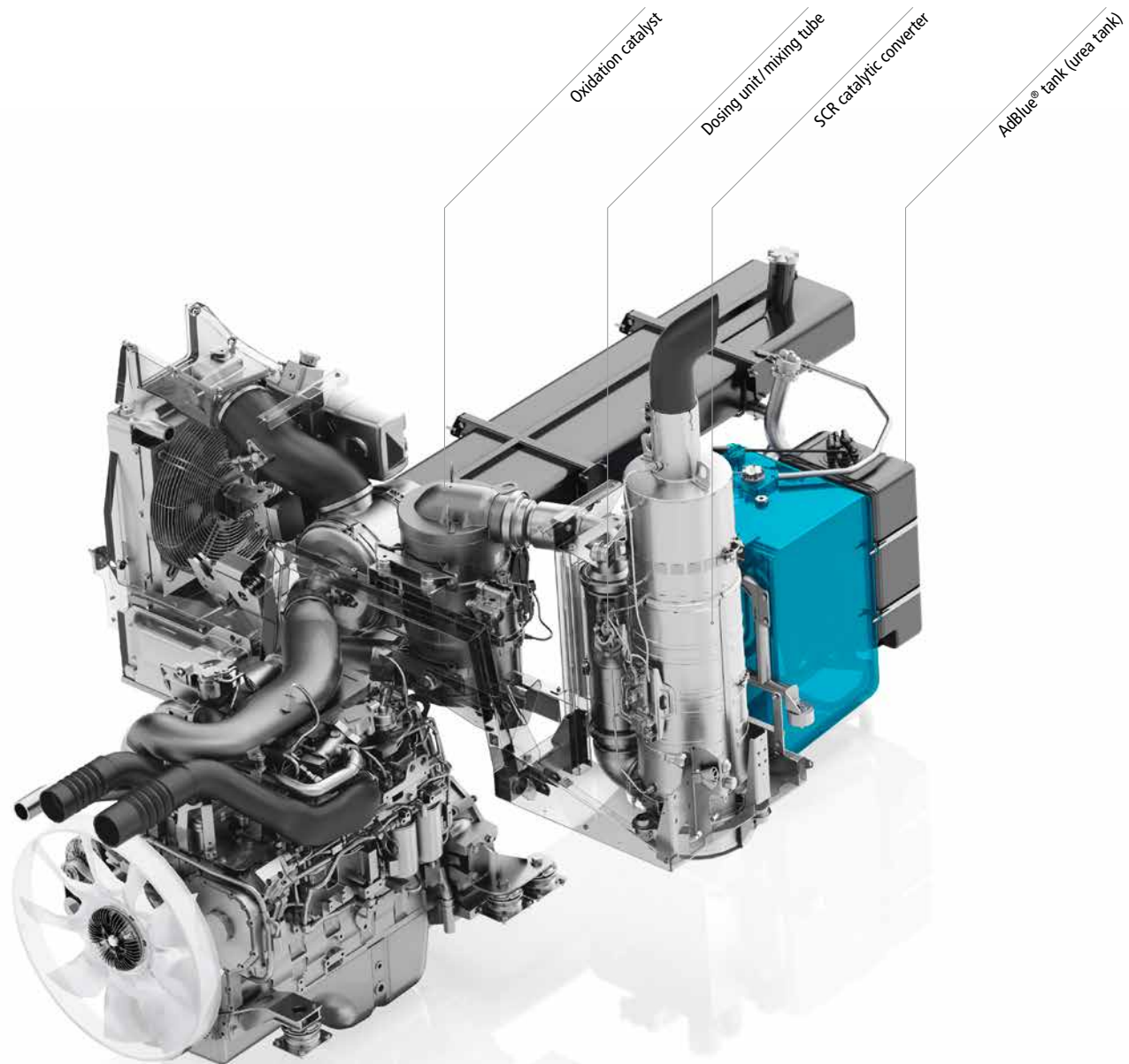
The 400-hp Cummins engine brings pure power to the slopes with a maximum torque of 1,627 Nm at 1,500 rpm. Thanks to the VTG turbocharger, the engine also achieves high torque at low revs and responds much better. The patented Fleetguard filter with nanotechnology ensures optimised fuel filtering. Direct-flow air filters reduce the filter change intervals.

Technical data

Type	Cummins QSL 9
Cylinders	6
Cubic capacity	8.9 l / 8,900 ccm
Power output (ECE)	298 kW / 400 hp
Max. torque	1,627 Nm (1,120 ft lbs) at 1,500 rpm
Fuel consumption	from 19 l/h / from 5 gal
Tank capacity	260 l / 69 gal
Emission standard	EPA Tier4f / EU Stage IV



A responsible future



THERE IS NO BUSINESS LIKE SNOW BUSINESS!

Dirk Scheumann – park designer and CEO of Schneestern GmbH & Co KG

» You have to be passionate to work in this job. And a little crazy! Standard means stagnant and, all too often, compromise. In contrast, we seek the challenge. With one question only: "What else can we do" can we continue to develop parks. We are engineers, inventors, perfectionists and riders. Snowparks are to some extent extreme playgrounds and we bear the responsibility of ensuring fun and safety go hand in hand here. To do that you need the right team: it won't work without people who are on your wavelength. The ParkPro 4F is the tool we have long relied on, because this groomer has just the right skills you need for perfect realization of innovative ideas in the park. It's just how we imagined it. «







Sage Kotsenburg (Olympic Gold Medalist Slopestyle, Sochi 2014)

WOODWARD



Standard equipment

PistenBully 400 ParkPro 4F

On-board diagnosis

The most important data at a glance immediately and effortlessly



Drivers can access the on-board diagnosis directly from the display screen. All functions can be centrally controlled with the fast PSX main computer. Thus, drivers can quickly and effectively access, monitor and evaluate figures on performance and energy management, the engine, the hydraulics and the drive and tiller pumps.

The 5.5" display screen offers an improved overview, higher resolution and a bright, illuminated display, which provides optimum contrast day or night.

Optional equipment

PistenBully 400 ParkPro 4F

Magnum sprocket

Premium drive wheel



The Magnum sprocket facilitates optimum power transfer to the tracks. It is extremely high-quality, robust and low-wear over a much longer operating time.

Solid tires

For greater durability



The solid tires, which last far longer, are available as an alternative to pneumatic running wheels. These are already installed as standard on the winch vehicles.

LED lights

Optimum Illumination
of the working areas



The PistenBully lighting concept is perfectly tailored to the working conditions: an extensive LED lighting package with powerful working lights, as well as on the mirror mounts, and tree line lights, all ensure optimum lighting of the working areas to the front and rear, the tracks and the side sections of slope.

Narrow platform

Perfect visibility
of the work



The narrow platform means you always have a full view of the ParkFlexTiller at any time. This enables even more precise work with the tiller in terms of speed, tiller height and the volume of snow you're working with. The narrow platform is also a must in the park for many shapers. That's because the unrestricted view means the driver can see when the tiller needs to be lowered to leave the perfect finish on the feature.

SNOWsat

Professional fleet
and snow management



SNOWsat is an integrated system for guidance, monitoring and coordination of the PistenBully fleet based on GPS and inertial technology. Numerous functions support the central control room and the drivers thanks to efficient snow management. SNOWsat supplies valuable data on snow depth, enabling targeted production of man made snow and snow grooming and, thus, saves on working time, water and energy.

Technical package

High-pressure connection for
hydraulic front attachments



The PistenBully can be supplemented with other hydraulically operated attachments, such as the front-snow blower or PipeMagician, using an additional high-pressure connection on the front of the vehicle.

Technical data

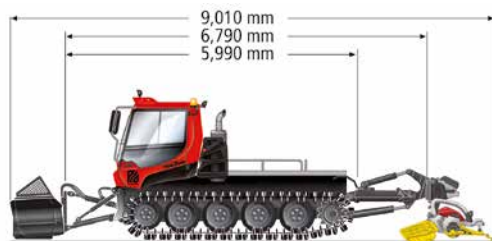
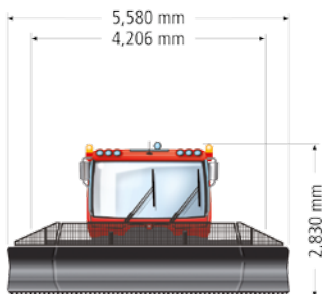
PistenBully 400 ParkPro 4F

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Engine	
Type	Cummins QSL9 Tier4f
No. of cylinders	6
Displacement	8.9 l / 2.4 gal 8,900 ccm / 543 cu.in
Power output (ECE)	298 kW / 400 hp
Exhaust emissions standard	EPA Tier4f / EU Stage IV
Max. torque	1,627 Nm / 1,120 ft lbs at 1,500 rpm
Tank capacity	260 l / 69 gal
Tank capacity	from 19 l/h / 5 gal
Drive pump	140 ccm / 8.5 cu.in
Driving performance	
Speed	0 – 19 km/h / 0 – 12 mph continuously variable

Electrics	
Low-voltage system	24 V
Alternator	24 V / 140 A
Batteries	2 x 12 V / 135 Ah
Cold start rating	900 A
Lightning	
Front	2 H7 front-headlights and 2 H11 working headlight
Rear	2 H11 rear-headlights
Lateral	Side Finder
Tree line lights	optional
Search headlight	Twin searchlights
Additional headlight	–

Cabin	
ROPS certificate	yes
Driver's seat	adjustable
Operating elements	display with display screen
Glass	Front, rear and side windows heated
Rear mirrors	heated
Wipers	cooling-water heated
Options	
Hydraulically foldable sideflaps	
Front high pressure connection	
Solid tires	
Magnum sprocket	
Hydraulic oil pre-heating	
Trailer hitch	
Cableway emergency operation	
Foldable galery (not available for all countries)	
Rear camera	
LED lighting package	



Dimensions

Width	without tracks	2,500 mm / 98.4"
	over combined tracks / steel tracks	4,206 mm / 165.6"
	over tiller with intermediate flaps	5,500 mm / 216.5"
	over tiller and foldable sideflaps	6,400 mm / 252"
Blade	Width open	5,580 mm / 219.7"
	Width wide	4,440 mm / 174.8"
	Height	1,000 mm / 39.4"
Height	above everything	2,830 mm / 111.4"
	when driver's cabin tilted	3,250 mm / 128"
Ground clearance		350 mm / 13.8"
Length	with blade and tiller	9,010 mm / 354.7"
	with blade, tiller and track-setters	10,310 mm / 405.9"
Load area	Length	2,120 mm / 83.5"
	Width	1,920 mm / 75.6"
Suggested garage dimensions	Length	11,000 mm / 433"
	Width	6,000 mm / 236"
	Height	3,500 mm / 138"

Weights

Tare weight*	with combined tracks	from 8,045 kg / 17,736 lbs
	with steel tracks	from 8,645 kg / 19,059 lbs
Gross weight limit		11,800 kg / 26,015 lbs
Payload on platform		1,500 kg / 3,307 lbs

*In acc. with ISO 1176/M6, net weights may vary depending on equipment.



PistenBully Service

365 days a year, 24 hours a day:
our global network is always there
for you.

Local service

We know what the breakdown of a snow groomer means to a ski resort. That's why Kässbohrer Geländefahrzeug AG has been investing for decades in a fast-response and global service network, which guarantees the availability of well-trained service engineers and original spare parts within 24 hours. To this end, we now have over 130 service stations and agencies around the world. Because smooth, cost-effective operations are the top priority. Moreover, advice over the phone and online ordering of spare parts ensure fast solutions when you're stuck.

Advice and training

PistenBully is your partner when it comes to economical use of materials and resources for your fleet. We offer a comprehensive concept of advice and training that will help you to produce the perfect slopes. Technician training ensures your independence and also enables you to perform repairs quickly right in the ski resort.

Exchange of experiences

We share your passion. And we continually exchange experiences with ski resort operators, slope managers and drivers to make sure we're aware of your needs and wishes and to incorporate these in the development of our PistenBully.

You'll find more information on our service concept at:
www.pistenbully.com/service



PistenBully. For the snow of tomorrow.

Quality, reliability and innovation for over 40 years.

You only get better than “good” with genuine passion and a strong team. A passion for engines, machines and technology is inextricably linked to the Kässbohrer business. Our success is essentially based on these foundations: good ideas that lead to new solutions and a skilled and dedicated team. Our corporate culture encourages a positive innovative climate and enables us to expand our market leadership with fascinating products of the highest quality and reliability.





Obligation of quality

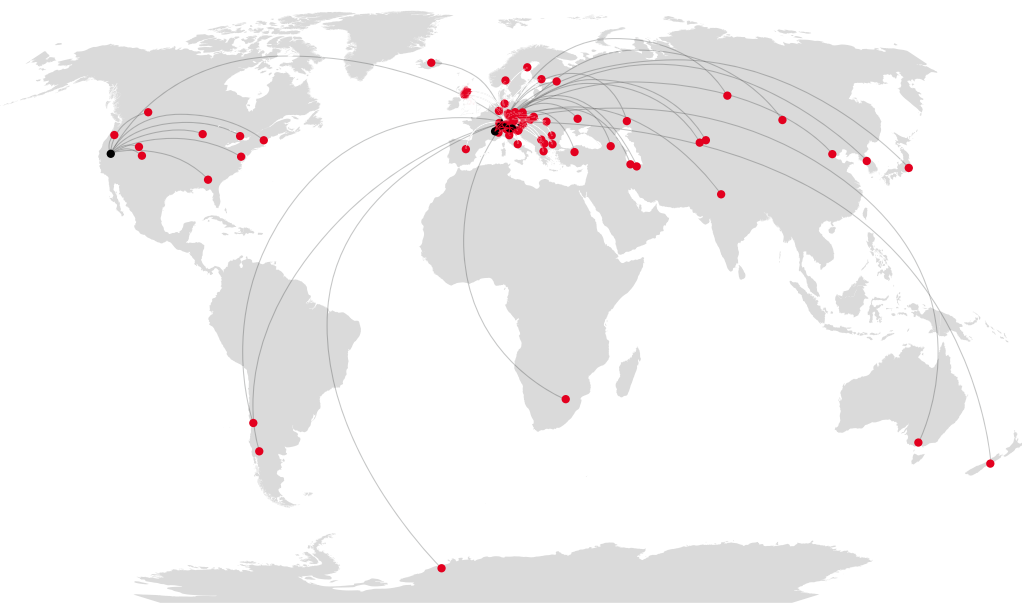
We know the tough conditions in which our vehicles work and the challenges our customers face to work economically. We are convinced that the reliability and quality of our vehicles is the most important added value we can offer our customers.

Responsibility for people and the environment

We see ourselves as a company that takes a responsible approach to its resources, its environment and its relationships with customers, staff and suppliers. Appreciation of people and nature is a valuable asset to us, and this guides our business.



PistenBully®



The global PistenBully network

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