

*PistenBully*<sup>®</sup>

400 ParkPro

**PistenBully 400 ParkPro**  
Creativity and perfection in the park



*PistenBully*<sup>®</sup>

## Creativity and perfection for Pros

Parks have developed enormously over the last 20 years; they have become an important market for the future. That's why we presented the first PistenBully adapted for parks back in 2000. Park designs are becoming ever more extreme in the professional sector. In addition, increasing numbers of ski resorts are offering adventure trails, funslopes and family parks to boost their appeal to skiers and snowboarders and, thus, their own competitiveness. This naturally has an impact on their requirements of the snow groomers: Parks constitute a whole different set of tasks to the slopes.

In collaboration with the best park developers and shapers from the USA and Europe, we have created a new machine that is precisely tailored to the needs and wishes of park builders.

We are proud to present the new 400 ParkPro to you today – the professional tool for more creativity and perfection.



Jens Rottmair  
CEO



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 was developed by pros for pros.  
The perfect tool for creativity and perfection in the park.



# PistenBully 400 ParkPro

## 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 in collaboration with drivers, shapers, park designers and riders, to ensure it is the answer to their needs.

### **TOP** The new SwitchBlade<sup>2</sup>

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** AlpineFlexTiller with Flexlock

The AlpineFlexTiller has been setting the benchmark for perfect slope quality for many years. We have integrated innovative functions into the AlpineFlexTiller, 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 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

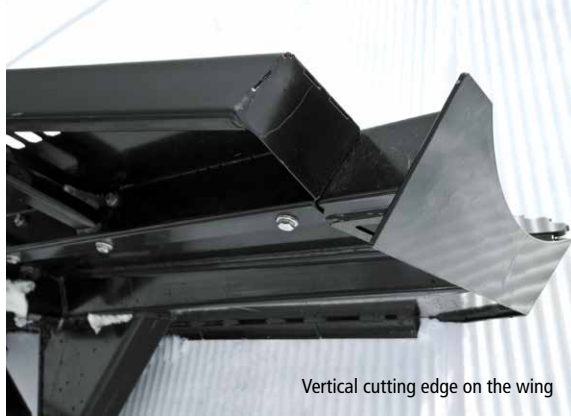
A PistenBully has never been so intuitive to control. The joystick specially developed for the ParkPro sets new standards in terms of operation and flexibility. We know that a tool is only as good as how it can be used in practice. More info on page 12 – 13.

### **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



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## SwitchBlade<sup>2</sup>

### Twelve innovative functions – for effective park construction

#### ⊕ Pro Features

- SwitchBlade<sup>2</sup> – 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 SwitchBlade<sup>2</sup> is designed to distribute the energy from moving snow evenly across the whole vehicle frame. For maximum stability and thrust.



## AlpineFlexTiller

### With hydraulic Flexlock & adjustable lowering speed

#### ⊕ Perfect snow quality in the park and on the slopes

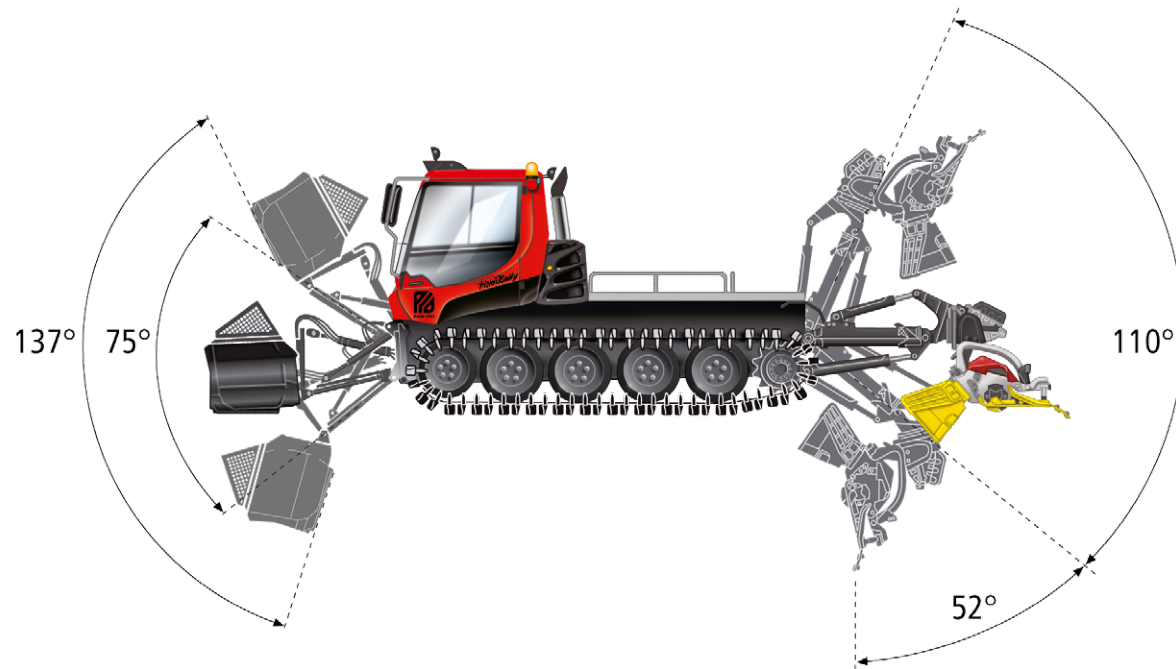
The AlpineFlexTiller even impresses in the toughest conditions with its outstanding performance. The tiller shafts prepare the snow and ensure the best snow quality in the park and on the slopes. The result is an even finish with corduroy.

#### ⊕ Optimum adaptation in any situation

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

#### ⊕ Inspiring performance

- AlpineFlexTiller 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 SwitchBlade<sup>2</sup> – combined with the new extended push frame – gives shapers a sensational and action radius of 137°.

The ParkPro has a new attachment carrier, which together with the lightweight AlpineFlexTiller 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
- LED light package front and rear
- 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 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 AlpineFlexTiller and the SwitchBlade<sup>2</sup>
- Straight blade at the touch of a button, ideal for backblading
- Flexlock for the AlpineFlexTiller 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

# ParkPro drive train

## Get ready for sport mode

### ◆ New drive train

The ParkPro 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.

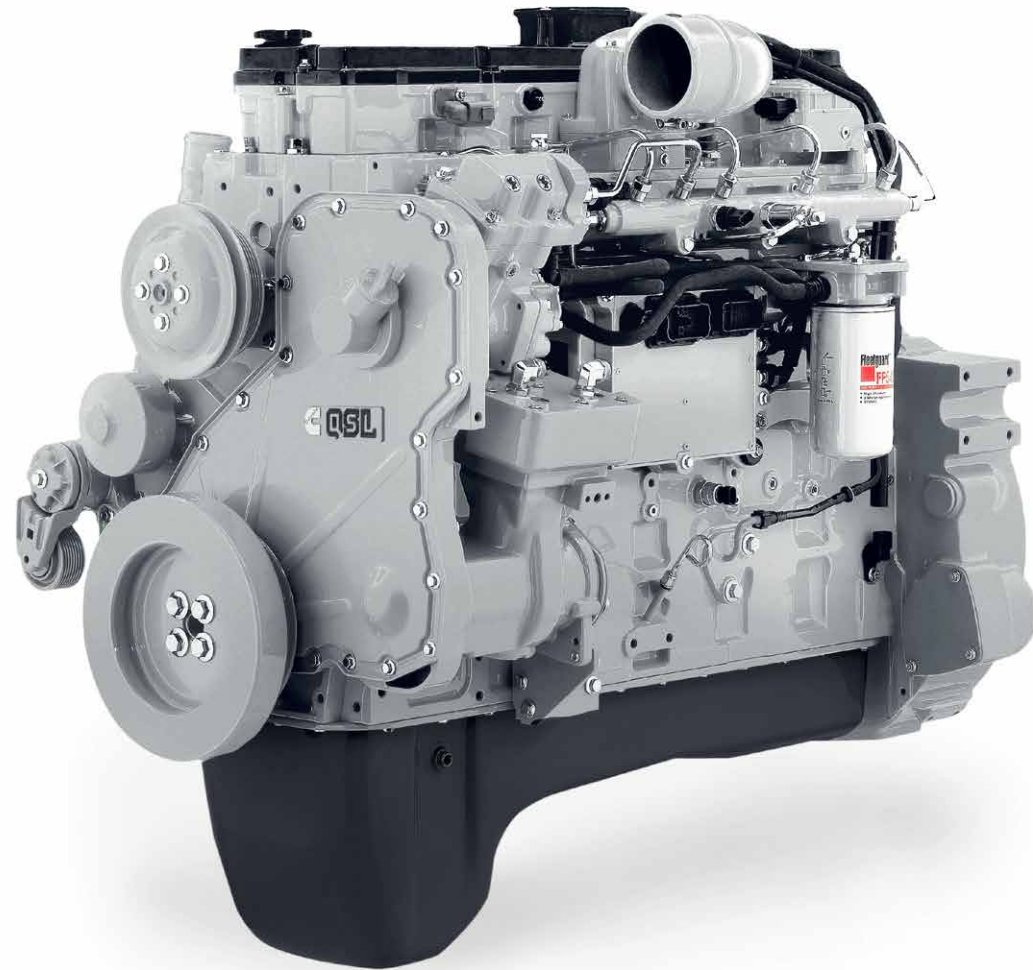
### ◆ Tried-and-tested drive unit

The powerful 6-cylinder inline diesel engine with high-pressure common rail injection offers low fuel consumption combined with low noise and exhaust emissions. The 370 hp of the Cummins engine provides traction in every situation. The patented Fleetguard filters with nano-technology ensure optimised fuel filtering and the direct-flow air filters reduce filter replacement intervals.

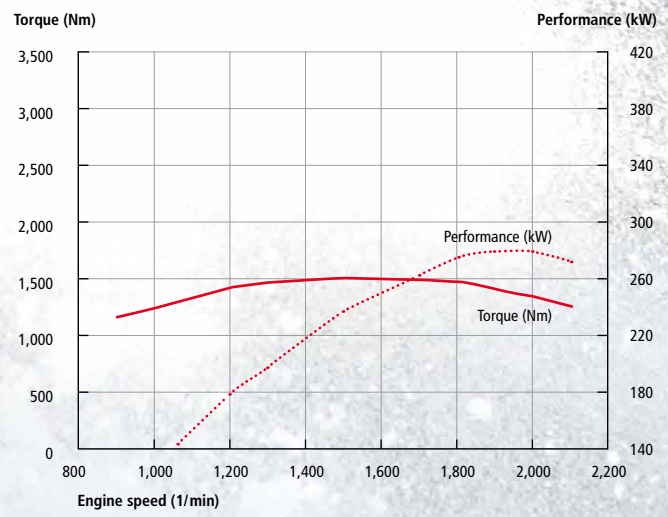
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### Technical data

Type	Cummins QSL 9
Cylinders	6
Cubic capacity	8.9 l / 8,900 ccm
Power output (ECE)	272 kW / 370 hp
Max. torque	1,519 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	Euro 3A, EPA TIER 3







# 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 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)

400 ParkPro online video:





# Standard equipment

## PistenBully ParkPro

### 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.

### Xenon lights

Optimum Illumination of the working areas



The PistenBully lighting concept is perfectly tailored to the working conditions: an extensive xenon lighting package with powerful headlights with low and full beam ensures perfect visibility. Rear and working lights provide optimum illumination of working areas ahead and behind, the tracks and the areas to the sides. Tree line and sidefinder lights can be added as an optional extra.

### Narrow platform

Perfect visibility of the work



The narrow platform means you always have a full view of the AlpineFlexTiller 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.

# Optional equipment

## PistenBully ParkPro

### 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.

### 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 data

## PistenBully ParkPro

### Engine

Type	Cummins QSL 9
No. of cylinders	6
Displacement	8.9 l / 2.4 gal 8,900 ccm / 543 cu.in
Power output (ECE)	272 kW / 370 hp
Exhaust emissions standard	Euro 3A, EPA TIER 3
Max. torque	1,519 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 – 23 km/h / 0–14 mph continuously variable
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### 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	optional
Search headlight	Twin searchlights
Additional headlight	–

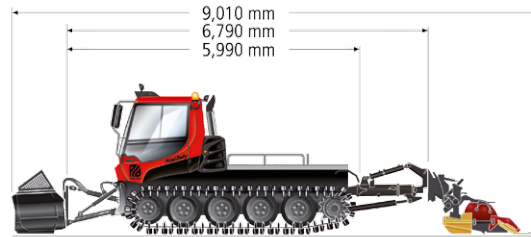
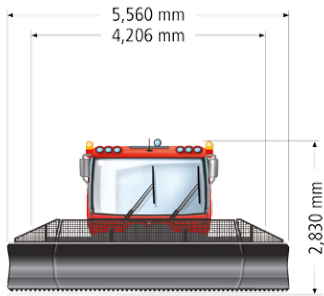
### Cabin

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
Harness belt





### 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	5,560 mm / 218.9"
	Width wide	4,570 mm / 179.9"
	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	7,340 kg / 16,182 lbs
	with steel tracks	8,020 kg / 17,681 lbs
Gross weight limit		11,800 kg / 26,015 lbs
Payload on platform		1,500 kg / 3,307 lbs





## 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.

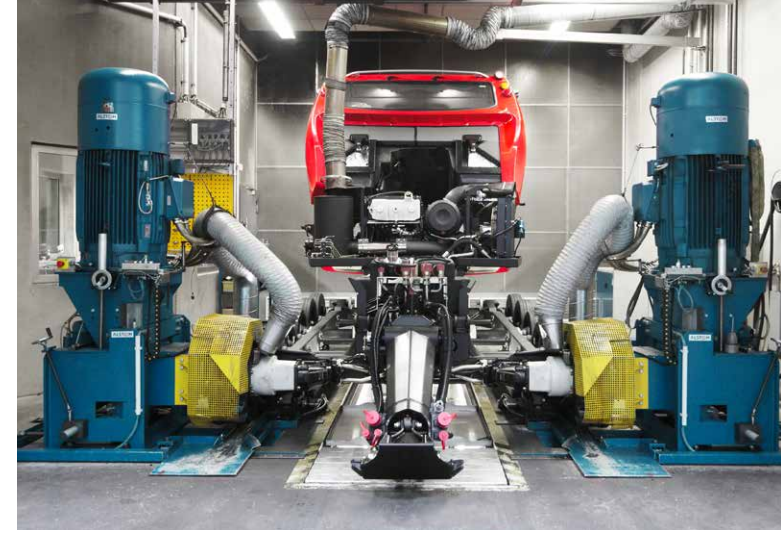
### Advice and training

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](http://www.pistenbully.com/service)



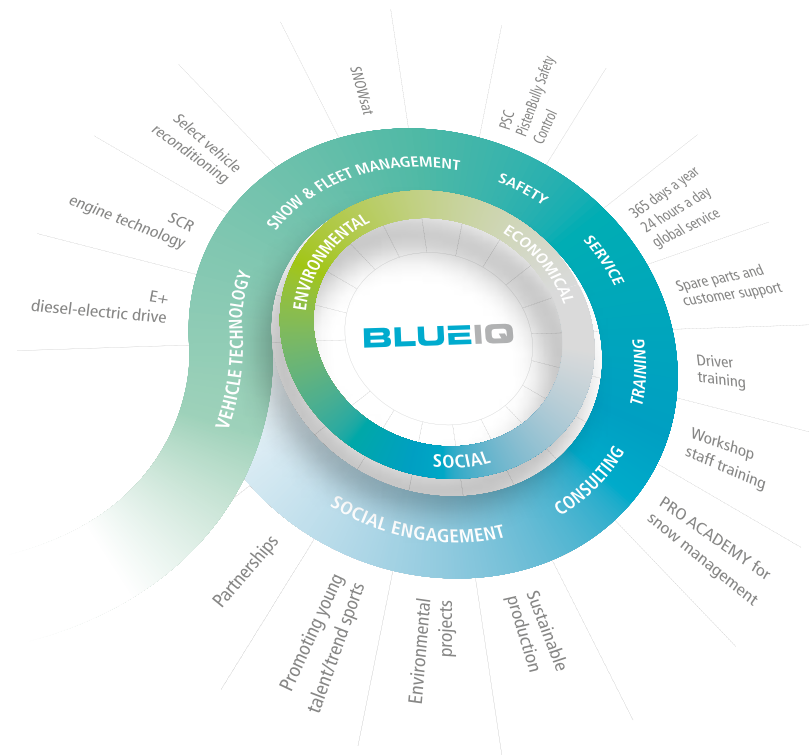
# **PistenBully. For the snow of tomorrow.**

## **Quality, reliability and partnership for over 45 years.**

A company can only improve with genuine passion and a strong team. A passion for engines, machines and technology is inextricably linked to the Kässbohrer business. Our success essentially rests on these foundations: close cooperation with our customers, simple and fast solutions and a qualified and committed team.

A PistenBully is and remains something special. It encompasses new ideas, technologies and improvements that make it an efficient partner on the slopes. You can rely on the quality of our products made in Germany. And on the fact that sustainability and a responsible approach to people, the environment and resources are an integral part of our philosophy.





**BLUE IQ – responsibility for people and the environment**

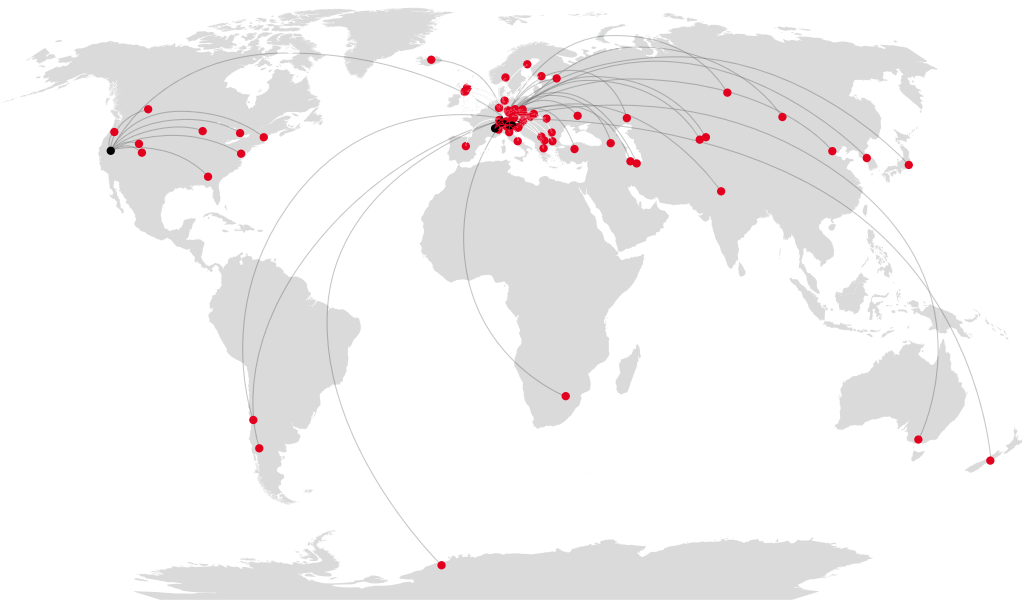
With our corporate philosophy, BLUE IQ, we are working actively with our customers to shape the future. As the global market leader we are convinced that technical innovations must be incorporated into integrated concepts. That's why we take the economic, ecological and social aspects into account in addition to technical factors. The result is a well-thought-out and coordinated portfolio. For more customer benefits, greater cost-effectiveness and a better environment.



A responsible future



*PistenBully*<sup>®</sup>



## The global PistenBully network.

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