

*PistenBully®*

600 / 600 Polar

# A CLEAR MESSAGE.

QUIETER. CLEANER. MORE ECONOMICAL.





# SNOW GROOMER. A FLAT UNDERSTATEMENT.

*PistenBully®*

Representative of a new generation. Trailblazer and milestone. Machine of choice. That's what joint effort can produce when a manufacturer teams up with customers to develop a vehicle. With the PistenBully 600, together we've redefined the standards. For power and performance. For efficiency, ease of operation and comfort. The new 600 is lighter than all the others in its class. And more environmentally friendly.

What that means in practice? You'll take your seat in the cockpit. You'll fire up the engine. And by the time you've covered just a few meters you'll be smiling. Because the PistenBully 600 is more than an ordinary snow groomer. It stands for top-grade snow management: on LEVEL RED.



# YOU TAKE YOUR SEAT LIKE ALWAYS. EVERYTHING ELSE IS NEW.

02

Here it is: the new PistenBully 600. Discreetly understated outside. Inside packed with a multitude of new patents and innovative features. They're what make it the new benchmark in its class. And the perfect tool for slope preparation.

NEW

Power transmission:  
EU stage V engine

NEW

Implement carriers:  
SlopeTracer,  
AutoTracer

NEW

Chassis:  
New main frame,  
new development of the complete running gear,  
stronger axles

NEW

Winch:  
Automatic winching  
force control

NEW

Driver's cab:  
LED lighting,  
comfort seat

NEW

MMI concept:  
iTerminal,  
4-axis joystick,  
armrest

NEW

Hydraulics:  
More precise, CAN-controlled,  
proportional auxiliary hydraulics

03

## 01 MMI: INNOVATIVE AND INTUITIVE

Joystick for intuitive control one-handed. Uncluttered iTerminal, easy to use. Driver's seat, steering control (steering wheel or sticks) and armrest form a single ergonomic unit.

## 02 ENGINE: QUIET, CLEAN AND ECONOMICAL

The first to meet the EU emissions-control stage V requirements. With diesel particulate filter. For reduced exhaust emissions and low fuel consumption. Compact and easy to service.

## 03 POWER: MAXIMIZED

Highest power-to-weight ratio of its class. With low tare weight, more power and higher torque. For better gradability and more thrust.

## 04 WORK: STRAIGHTFORWARD AND EFFORTLESS

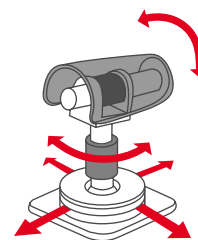
Newly developed assistance systems take the strain off the driver. With smart automatic functions. For easy handling, effortless work and better ski-slope quality.



# COCKPIT

**USER-FRIENDLY. COMFORTABLE. AND WONDERFULLY QUIET.**  
THE COCKPIT MAKES THE PISTENBULLY  
OPERATOR'S JOB EVEN MORE ENJOYABLE.

## JOYSTICK



Ergonomic and freely movable in all directions. For intuitive control. The joystick's four axes permit four simultaneous movements of the pusher blade. And proportional control of the auxiliary equipment. All one-handed.

## TERMINAL

10-inch display with touch control. Uncluttered and easy to use. All active parts of the vehicle are color-highlighted. Quick navigation using icons and completely SNOWsat-ready. This will be the cross-vehicle man-machine interface concept for all future models.

## CONTROL UNIT

For a steady hand and safe handling in any driving situation: driver's seat, armrest and joystick are hardwired together. One ergonomic and comfortable unit. Individually configurable for the driver. Enabling fatigue-free working, even when tackling bumpy driving in difficult terrain.

## INTERIOR

High-quality, easy-care interior lining. New floorpan. Both with innovative thermal insulation. And significantly improved soundproofing: quieter than ever before. Center console with optimum ventilation. For a perfect interior climate. For the first time with comfort automatic air conditioning on request. Plus plenty of space and freedom of movement.

## CAB

Safety cab giving the driver the best possible protection. With great all-round vision. Electrically adjustable and heatable mirrors. Double sliding side windows, also heatable. Lighting system with LED lamps. For working in safety and comfort.

"The looks are great. But the really sensational thing is working with the new joystick. That really is an innovation for the best. Even a rookie operator soon learns how to operate the pusher blade and work with the tiller at the same time."

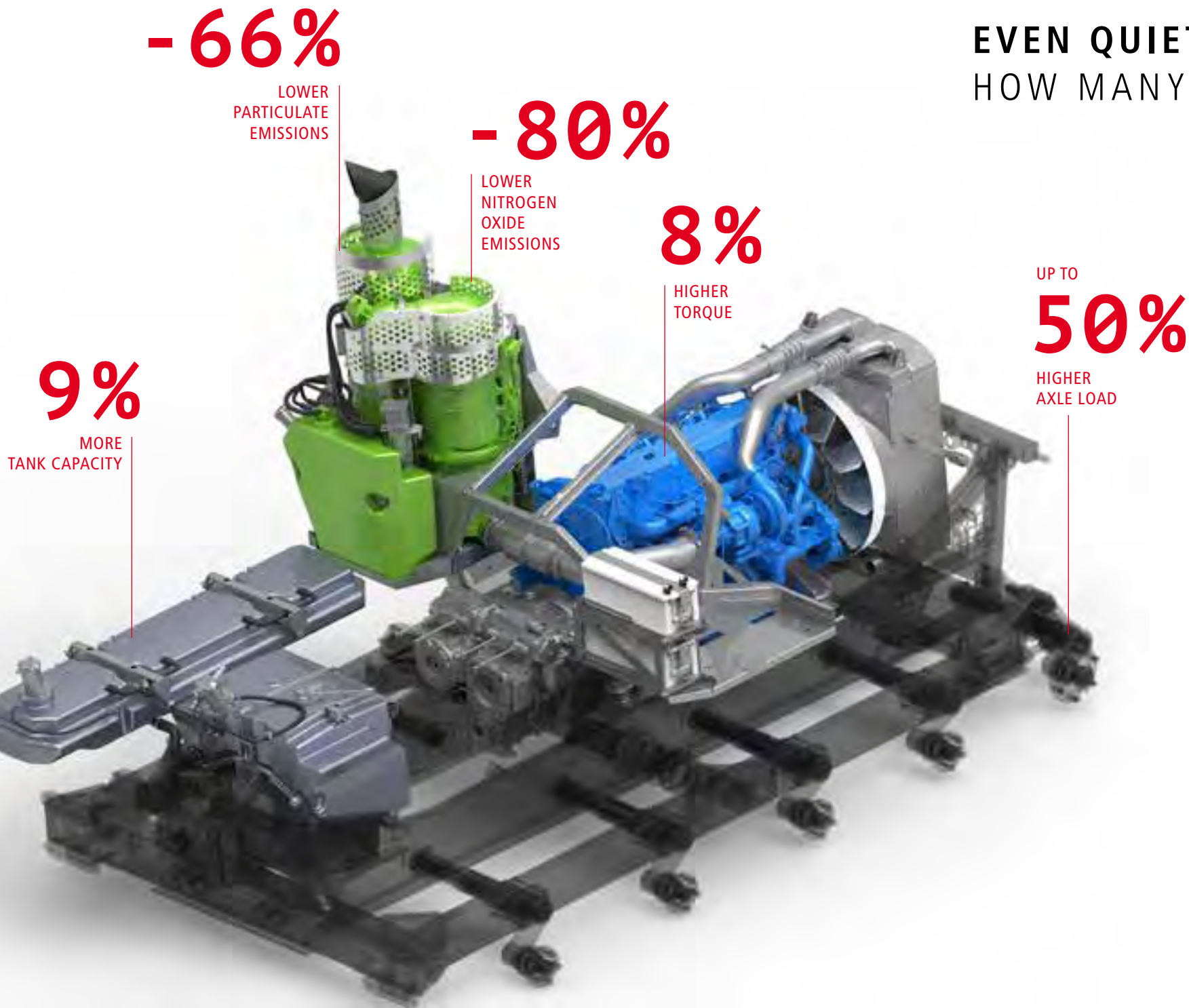


LEO SCHUSTER  
TECHNICAL DIRECTOR  
OBERSTDORF KLEINWALSERTAL  
BERGBAHNEN, GERMANY



# ENGINE

ENGINE	600	600 POLAR
TYPE	Cummins X12	
NUMBER OF CYLINDERS	6	
DISPLACEMENT	11.80 l / 11,800 cc	
ECE POWER RATING	339 kW / 461 hp	382 kW / 520 hp
EXHAUST EMISSIONS STANDARD	EU Stage V and EPA Tier 4F (USA)	
MAX. TORQUE	2,250 Nm / 1,660 ft lbs at 1,200 rpm	2,375 Nm / 1,750 ft lbs at 1,200 rpm
TANK CAPACITY	300 l / 79 gal	
DEF TANK CAPACITY (ADBLUE®)	38 l / 10 gal	
FUEL CONSUMPTION	from 19.5 l/h / 5 gal/h	
PROPULSION PUMP	175 cc	
PROPULSION DRIVES	125 cc	
TILLER DRIVE	105 cc	



EVEN QUIETER. EVEN CLEANER. EVEN MORE ECONOMICAL.  
HOW MANY MORE REASONS DO YOU NEED?

### QUIET AND CLEAN

Quietest and cleanest engine in its class. Includes diesel particulate filter. First snow groomer to meet the EU stage V emissions-control requirements. Better at conserving resources. It's more eco-friendly than all other snow groomers.

### ECONOMICAL AND POWERFUL

Even though fuel consumption is lower, it has considerably more power and torque than the predecessor model. More tank capacity for greater operating range. For efficient and economical operations.

### EASY TO SERVICE

Compact engine of simple design. Fewer complicated components and more accessible. Straightforward and easy to service, fewer chances for malfunction and faults.

"The quality and capabilities are no longer a surprise to me. We've long since come to expect them from Kässbohrer."



PIOTR CZAJA  
TECHNICAL DIRECTOR  
KOTELNICA,  
POLAND



# PERFORMANCE

"Benefits? The pushing power on very steep slopes. And the tremendous climbing capability."



KARL DIRNHOFER  
OPERATIONS DIRECTOR  
ZUGSPITZE GARMISCH CLASSICS,  
GERMANY



## LESS WEIGHT. MORE POWER. SERIOUSLY: WHAT VEHICLE COULD BE BETTER FOR YOU?

### MORE POWER

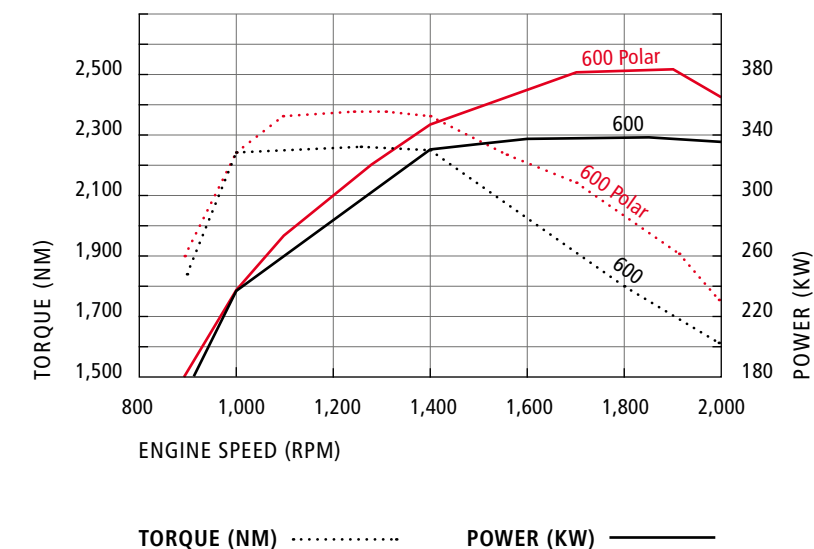
Lightest vehicle in its class. With the best power-to-weight ratio and extremely high power yield. The combination of low tare weight and powerful engine makes it happen. For maximum climbing capability and thrust.

### MORE SAFETY

Completely redesigned frame, engine and chassis. Weight-optimized and more robust. Improved suspension for more comfort. Cab with the highest rollover protection structure (ROPS rating 14.5 metric tons).

### MORE VERSATILITY

Higher payload because tare weight is lower. Optimized for a permissible gross weight up to 14.5 metric tons. For carrying more equipment. And for more versatility in day-to-day operations.





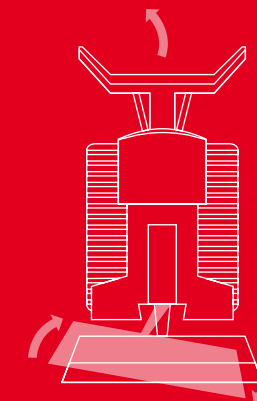
# ASSISTANCE SYSTEMS

"The new automatic systems mean less stress,  
more convenience and more safety for the driver."



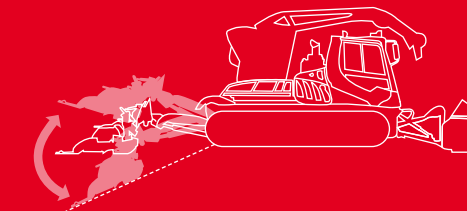
CHRISTIAN WURMER  
DRIVER  
ZUGSPITZE GARMISCH CLASSICS,  
GERMANY

BETTER SLOPES. LESS WORK.  
WE THOUGHT THAT WOULD CATCH YOUR ATTENTION.



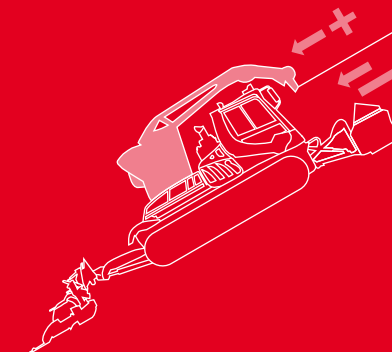
## NEW AUTOTRACER

Rear equipment carrier with smart, active steering assistance. Possible in both rigid position (locked) and floating position (released). Automatic and autonomous co-steering when cornering. Left and right. Automatic counter-steering on cross-slopes. To assist the driver and make the job easier.



## NEW SLOPETRACER

Smart control of the combined implement carrier. By software usable like a parallel implement carrier. Ensures perfect contour matching of the tiller in hilly terrain and adapts tiller depth for uphill and downhill operations. Simplifies operation and permits very large movement radii.



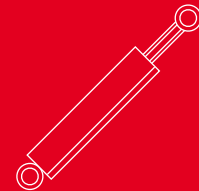
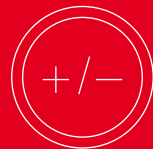
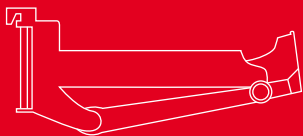
## NEW AUTOMATIC WINCHING FORCE CONTROL

Newly developed smart winch with automatic tractive force control. Activated at the control panel. Matches driving speed and winch cable speed. If there is a deviation, because of slip for example, tractive force is increased. Less wear and tear on the winch cable, less strain on the driver.

Along with these innovations, a whole array of other assistance systems helps make the PistenBully 600 totally easy to drive and operate.

INNOVATIVE FEATURES. CLEVER DETAILS.  
THAT'S WHAT THE NEW PISTENBULLY 600  
BRINGS TO YOUR SLOPES.

STANDARD EQUIPMENT



TRANSMISSION, CHASSIS & WHEELS

- Optimized splitter box, less noise and vibration
- New chassis with improved handling characteristics
- Only drawn axles used
- Shorter axles for better accessibility to the drive components
- Stronger rocker arms and wheel bearings with larger tapered roller bearings
- QuickAdjust – rapid adjustment of the chassis by toothed-segment mechanism
- Individual axle loads and spring characteristics for improved ride comfort (solo/winch)
- Composite plain bearings for greater smoothness and better pitch control
- Magnum sprocket
- Solid rubber wheels
- Functional fenders to stop snow fling

REAR EQUIPMENT CARRIER

- Combined implement carrier for maximum movement radii
- Use as parallel implement carrier possible (software-controlled)
- Automatic vibration compensation
- Optimized and strengthened articulated head

SOUND SYSTEM

- High-end sound system perfectly matched to the vehicle
- Alpine DAB+ digital radio
- Bluetooth handsfree set
- Ports: USB and audio IN

LIGHTING

- LED lights package (PistenBully 600 Polar)
- LED SideFinder lights integrated into the carrier frame
- LED TillerFlap lights
- LED BladeFlap lights
- Additional LED turn indicators and rear lights integrated into the carrier frame

ELECTRONICS & BATTERIES

- Less diversity for better serviceability
- Identical structure across all PistenBully vehicles
- Straightforward onboard diagnosis with plain-text fault readout
- Automatic temperature compensation with cold-running protection of the components
- Maintenance-free batteries with high cold-start current
- Uprated alternator

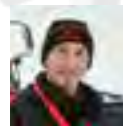
HYDRAULICS & AUXILIARY HYDRAULICS

- Electro-hydraulic brake
- New transfer gearbox angles the drive pumps 5° outward
- Optimized accessibility
- Specific output 20 % higher than predecessor model
- Optimized control for higher efficiency
- High pressure filter
- Calibrated valves with identical response characteristics in all vehicles
- Best-in-class figures for speed and response
- Valve characteristic can be custom-set
- All functions are independently and proportionally controllable
- Common parts (e.g. proportional control valves and solenoid coils)

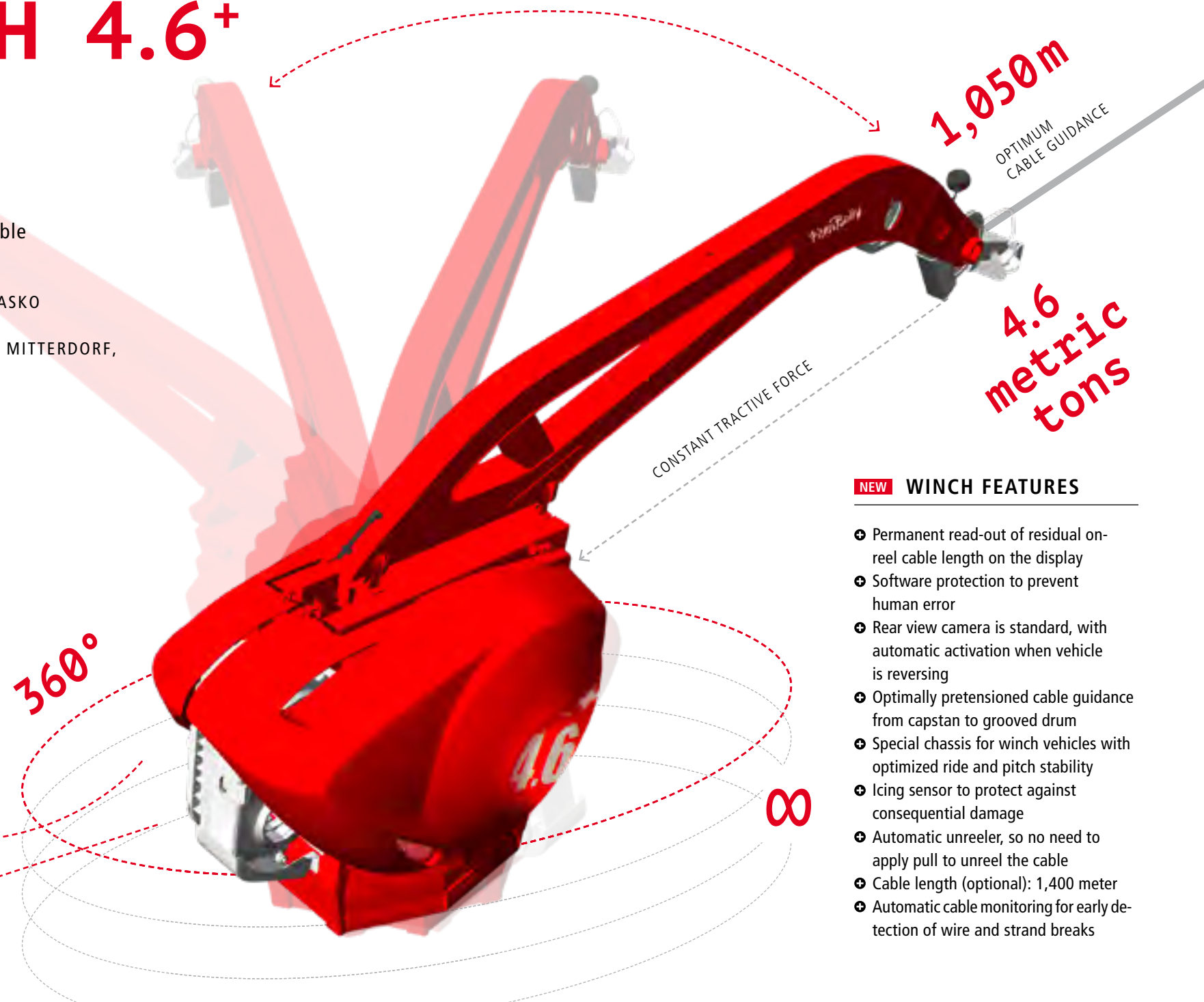


# WINCH 4.6<sup>+</sup>

"The winch has incredible pulling power."



DIETER DAMASKO  
DRIVER  
SKIZENTRUM MITTERDORF,  
GERMANY



## NEW WINCH FEATURES

- Permanent read-out of residual on-reel cable length on the display
- Software protection to prevent human error
- Rear view camera is standard, with automatic activation when vehicle is reversing
- Optimally pretensioned cable guidance from capstan to grooved drum
- Special chassis for winch vehicles with optimized ride and pitch stability
- Icing sensor to protect against consequential damage
- Automatic unreeler, so no need to apply pull to unreel the cable
- Cable length (optional): 1,400 meter
- Automatic cable monitoring for early detection of wire and strand breaks

## MODEL VARIANTS

**360° UNLIMITED.**  
THE NEW ACTIVE 4.6<sup>+</sup> WINCH WITH AUTOMATIC WINCHING FORCE CONTROL.

### AUTOMATIC WINCHING FORCE CONTROL

Monitors and controls the tractive force of the winch cable. Manual operation or automatic tractive force control, with cable speed perfectly matched to driving speed by increase or decrease in tractive force. Manual override if necessary. Less wear and tear on the winch cable, less strain on the driver.

### ACTIVE WINCH

Electronically and proportionally controlled capstan winch pump. Enables automatic co-steering by the winch. For maximum tracking stability and optimum steerability of the vehicle. Also in difficult slope conditions and with off-center pull.

### CONSTANT TRACTIVE FORCE

Newly developed capstan winch. The capstan drive ensures a uniformly high tractive force and cable speed, regardless of the length of cable still reeled on the grooved drum. The advantage: more safety. Especially when driving at speed.



# HIGH-END COMPONENTS FOR PEAK PERFORMANCE. PERFECTLY COMBINABLE FOR PERFECT SLOPE PREPARATION.

## STANDARD EQUIPMENT

## OPTIONAL EQUIPMENT



### OPTIMIZED ALL WAY BLADE

Stronger snow shield with integral snow-gun mount. Stronger mounts on the blade wings. Uprated hydraulic cylinders. The All Way Blade has been further optimized. For more stability. Better force transfer and rolling characteristics. And even more versatility on the job. The All Way Blade: for precision, effortless slope preparation. With the most thrust available on the market.



### TRACKS FOR EVERY JOB

No matter what you intend doing with your PistenBully 600, we have the right tracks for the job:

- Rubber profile track X-Track with 975 mm / 38 in width: for forestry, meadowland and moorland work without damaging the ground.
- Steel track with 1,648 mm / 65 in width: for extreme jobs in steep terrain and on iced or rocky surfaces.
- 7-belt Kombiplus track with 1,648 mm / 65 in width: the latest track and also the most successful worldwide. With the best gradability and thrust on the market.



### OPTIMIZED ALPINFLEX TILLER

Side flaps and finishers in black. Built-in LED lighting. Also available with camera on request. The AlpinFlex tiller has been further developed and improved: for perfect slope quality even in extreme conditions. Innovative shape and arrangement of the tiller teeth. Memory function for saving and calling up all settings. In the "AlpinFlex tiller Comfort" version: with hydraulic locking of the tiller halves and hydraulically foldable side finishers. For maximum conform and convenience.

## TECHNOLOGY AND ENGINE

- Trailer hitch
- High-pressure connection for hydraulic front attachments
- Charge pressure reduction
- Joystick control with power potentiometer for temporary increase in engine speed
- Hydraulic oil preheating
- Organic hydraulic oil

## ATTACHMENTS AND BODY

- Front snowblower
- Cabs for transporting up to 10 or 15 passengers
- Aluminum ski carrier for up to 20 snowboards or pairs of skis
- Tracker unit for preparing 2-lane, 3-lane and 4-lane Nordic ski tracks

## CAB AND COMFORT

- Engine-independent heating
- Automatic air conditioning
- Premium sound package with sub-woofer from Alpine and amplifier

## SNOWSAT

Professional snow and fleet management system. With satellite-controlled position fixing for precision measurement of snow depth. Enables high savings in snow production and operating overheads. For more efficiency and safety in slope preparation.

- High data availability throughout the ski area
- Real-time readout on the touch-screen on board the vehicle
- Savings on artificial snow by production only as and when needed
- Optimized routing for less fuel consumption
- Optimization of the entire work sequence to save time
- System is also available for retrofitting in all vehicles



# 600 PARK

ALL-ROUNDER. PARK PROFESSIONAL.  
READY FOR ALL DISCIPLINES.

## THE PARK SPECIALIST

The PistenBully 600, “Park” model. Developed in cooperation with the best drivers and shapers in the world. Equipped with everything you could want for preparing snow parks.

## PARKBLADE

Versatile All Way Blade for extremely precise shaping and perfect results. More leeway for creative work. And for even more extravagant shapes. Can be used as a back-blade when reversing.

## TRANSPORT TINES

Standard on the ParkBlade for convenient transport of rails, boxes and other snow-park gear. Make it a one-man show. Ideal for competitions.

## PARK IMPLEMENT CARRIER

Optimum kinematics. For great mobility and more versatility of the mounted implements. All implements operable at the same time. Perfect for shaping and reshaping kickers and ramps, jumps and pipes.

## NEW AUXILIARY HYDRAULICS

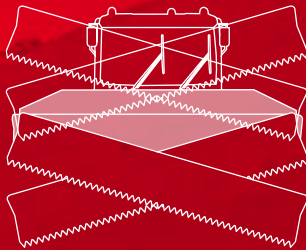
- Faster response
- Direct and proportional control of all functions

## NEW QUICK-CHANGE SYSTEM

- With ParkPro kinematics and uprated cylinders
- No adapter frame required
- Less ice buildup

## NEW PARK BUTTON

- Joystick control of the rear carrier
- For intuitive operation for park shaping
- More convenience when attaching the tiller



THE OUTSTANDING VERSATILITY OF THE ALL WAY BLADE MAKES PRECISION SHAPING OF EXTRAORDINARY GEOMETRIES POSSIBLE.



EXTREME MOBILITY OF THE FRONT AND REAR AUXILIARIES FOR PERFECT SHAPING AND RESHAPING.

## MODEL VARIANTS

	600	600 W	600 PARK	600 POLAR	600 W POLAR	600 POLAR PARK
POWER	339 kW / 461 hp, 2,250 Nm / 1,200 rpm	339 kW / 461 hp, 2,250 Nm / 1,200 rpm	339 kW / 461 hp, 2,250 Nm / 1,200 rpm	382 kW / 520 hp, 2,375 Nm / 1,200 rpm	382 kW / 520 hp, 2,375 Nm / 1,200 rpm	382 kW / 520 hp, 2,375 Nm / 1,200 rpm
WORK LIGHTS	Halogen + xenon	Halogen + xenon	Halogen + xenon	LED + xenon	LED + xenon	LED + xenon
PUSHER BLADE	All-way: 4.4 m / 14.5 ft	All-way: 4.4 m / 14.5 ft	ParkBlade: 4.4 m / 14.5 ft transport tines	All-way: 4.6 m / 15 ft	All-way: 4.6 m / 15 ft	ParkBlade: 4.4 m / 14.5 ft transport tines
ALPIN FLEX TELLER	Standard or Comfort	Standard or Comfort	Comfort with hydr. locking of tiller halves and hydr. side finishers	Standard or Comfort	Standard or Comfort	Comfort with hydr. locking of tiller halves and hydr. side finishers
EXTRA FEATURES	Standard implement carrier, quick change system (SWS)	Standard implement carrier, quick change system (SWS)	Park implement carrier, Park quick change system	Standard implement carrier, quick change system (SWS)	Standard implement carrier, quick change system (SWS)	Park implement carrier, Park quick change system

“Entire milestones have been passed here, this is quality of the highest level.”



THOMAS LINGG  
MANAGING DIRECTION  
BERGBAHNEN OBERSTAUFEN,  
GERMANY





"You can reckon on growing old  
with your PistenBully."



ULLI SONNENBERG  
HEAD OF OPERATIONS  
OFTERSCHWANG,  
GERMANY

## SAFE ALL ROUND. FOR TROUBLE-FREE SLOPE OPERATIONS.

### SNOW AND FLEET MANAGEMENT

Utilize every potential for optimization: Professional snow and fleet management with snow depth measurement conserves resources and makes for significant savings on costs.

► [www.snowsatsat.com](http://www.snowsatsat.com)



### RESPONSIBILITY FOR PEOPLE AND THE ENVIRONMENT

Encompassing very many aspects, our BLUE IQ corporate philosophy is a responsible approach to a better future for winter sports.

► [www.kaessbohrerag.com/en/blueiq](http://www.kaessbohrerag.com/en/blueiq)

### 365 / 24 SERVICE

Being there when we're needed: With our worldwide service network, service engineers and spare parts are guaranteed to be there within 24 hours.

► [www.pistenbully.com/en/service](http://www.pistenbully.com/en/service)



ISO 9001, ISO 14001  
Certified Integrated Quality  
and Environmental  
Management System  
[www.tuv-sud.com/tms-cert](http://www.tuv-sud.com/tms-cert)



### WORKSHOP TRAINING AND DRIVER TRAINING

For economical snow management that conserves resources: the manufacturer-independent concept for basic and advanced training imparts all the important information about the machines and professional slope preparation.

► [www.proacademy.info](http://www.proacademy.info)



### QUALITY SPARE PARTS

Tested safety and total reliability: The high availability of our original spare parts maintains the value of the vehicle and minimizes downtimes. In every situation, our customers

can rely 100 percent on the products made in Germany.

► [www.pistenbully.com/spare-parts](http://www.pistenbully.com/spare-parts)

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