

PistenBully®

600 E+

OUR STATEMENT.

THE CLEANEST AND QUIETEST
IN ITS CLASS.



WE ARE ALWAYS
LOOKING TOWARD
THE FUTURE. AND
HAVE BEEN FOR A
LONG TIME NOW.

Kässbohrer has a long-standing tradition of sustainability. It is firmly anchored in our corporate strategy and shows the type of standards that we measure ourselves against: Acting responsibly with an eye toward future generations. Thinking comprehensively. Taking the lead with innovative solutions to set new standards and help in shaping the future.

Of course we are not the only ones who are focusing heavily on this area. However, we have proven again and again in the past that we're doing more than just talking about it. The best example is our PistenBully 600 E+. It demonstrates just how sustainable professional slope grooming can be.

MAKING THE IMPOSSIBLE POSSIBLE.

Plenty of power. Lower emissions and less noise. Minimum operating costs. The PistenBully 600 E+ takes what seems like an impossible combination and makes it a reality: It is both the cleanest and the quietest snow groomer in its class.

By offering this vehicle, Kässbohrer is taking one more step in the right direction. The PistenBully 600 E+ is and remains a trailblazer on the way toward professional slope grooming that is both professional and sustainable. Featuring a unique diesel-electric drive for enormous thrust even in the low speed range. Featuring 20% less fuel consumption for significant savings in the operating costs. Featuring 20% less noise and 20% less CO₂ emissions. A snow groomer for the ski area of today.

HIGHLIGHT

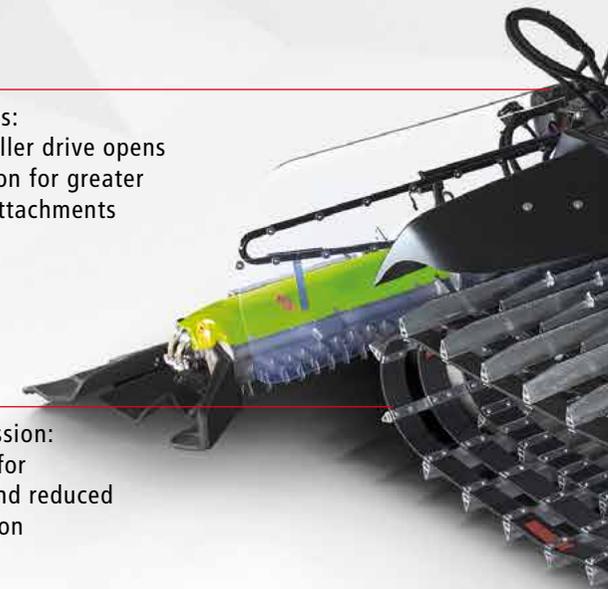
Attachments:
Hydraulic tiller drive opens up the option for greater variety in attachments

HIGHLIGHT

Power transmission:
Electric drives for recuperation and reduced fuel consumption

HIGHLIGHT

Chassis:
The highest drive torque and longer chassis guarantee the best thrust and climbing performance



THE IDEA BEHIND THE SUSTAINABLE PISTENBULLY 600 E+.



HIGHLIGHT

Uniform operating concept:
iTerminal and 4-axis joystick
for intuitive operation

HIGHLIGHT

Drive:
The diesel-electric drive
complies with EU Stage V
for significantly reduced
emissions.

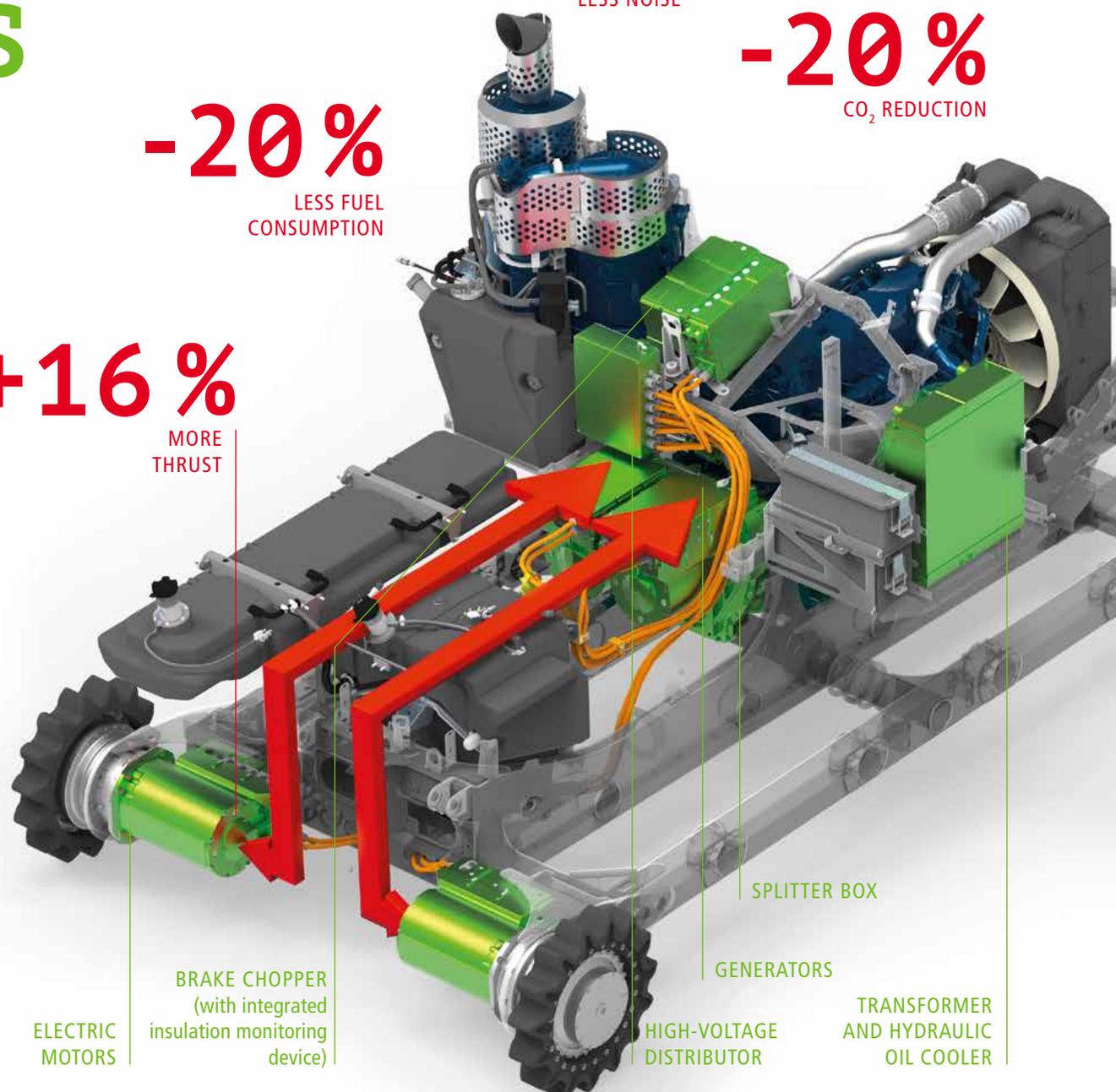
WINNER IN ALL CATEGORIES

-20%
LESS NOISE

-20%
CO₂ REDUCTION

-20%
LESS FUEL CONSUMPTION

+16%
MORE THRUST



ENGINE	600 E+
TYPE	Cummins X12
NUMBER OF CYLINDERS	6
DISPLACEMENT	11.80 L / 11,800 cc
ECE POWER RATING	382 kW / 520 metric hp
VEHICLE EMISSION STANDARD	EU Stage V and EPA Tier 4F (USA)
MAX. TORQUE	2,375 Nm / 1750 lb ft 1,200 rpm
TANK CAPACITY	300 L / 79 gal
DEF TANK CAPACITY (ADBLUE®)	38 L / 10 gal
FUEL CONSUMPTION	as low as 17 L/h / 5 gal/h
GENERATORS	140 kW / 650 V
DRIVE MOTORS	140 kW / 650 V
TILLER DRIVE	105 cc



THE FUEL MADE FROM RENEWABLE SOURCES, HVO, ACHIEVES UP TO A 90% REDUCTION IN CO₂ EMISSIONS AND CAN BE USED WITHOUT MODIFICATIONS TO THE ENGINE.

ELECTRIC MOTORS

BRAKE CHOPPER
(with integrated insulation monitoring device)

HIGH-VOLTAGE DISTRIBUTOR

SPLITTER BOX

GENERATORS

TRANSFORMER AND HYDRAULIC OIL COOLER

LESS NOISY. MORE EFFICIENT. MORE SUSTAINABLE. THIS IS WHAT A TRAILBLAZER LOOKS LIKE.

HIGH ENERGY EFFICIENCY AND ENERGY RECUPERATION

Consistent operation of the diesel engine in the optimum speed range makes it extremely efficient, economical and 20% less noisy. In uphill operation, the engine drives the generators, together with the drive motors, as well as the hydraulic pumps by means of a splitter box. The intelligent energy management ensures that, in downhill operation, the electric motors function as generators and support the engine in driving the hydraulic pumps via the splitter box. This takes some of the burden off the engine, reducing fuel consumption significantly.

MAXIMUM POWER AT LOW ENGINE SPEED

The electric drive operates with excellent efficiency while ensuring consistently high torque. The power is available instantly, even when the engine is revolving at a low speed. This means that operating the PistenBully 600 E+ gives driving a completely new feel with up to 16% more thrust as soon as you get going.

OPTIMUM OPERATING POINT

The PistenBully 600 E+ allows the operator to specify the desired driving speed using the throttle pedal. The intelligent vehicle control takes this information and calculates the best possible operating point at which the diesel engine provides the required output at optimum fuel consumption. This calculation also takes into account slope gradient, driving speed and tiller output. As a result, operation always remains at the lowest possible engine speed combined with high utilization. This type of driving strategy is only possible using the PistenBully 600 E+.

THE BEST OF TWO SYSTEMS: OUR DIESEL-ELECTRIC DRIVE

The only snow groomer in the world with a diesel-electric drive complies with EU Stage V and features strong performance characteristics, efficiency and environmental friendliness. The high efficiency reduces the fuel consumption by up to 20% in comparison to the PistenBully 600 Polar! This also reduces the CO₂ emissions by 20%. And less consumption means more range.

PRO ACADEMY

SERVICE

snowsat

Sustainable slope management with system.

Come and see the virtual
Kässbohrer Snow World!



KÄSSBOHRER GELÄNDEFahrZEUG AG

The right decision – now and in the future.

Kässbohrer has a tradition of sustainability on the ski slope: Starting in 2012 with the PistenBully 600 E+, we brought the world's first snow groomer with a diesel-electric hybrid drive to the market. In 2019 with the PistenBully 100 E, we presented the world's first fully electric snow groomer.

Today, Kässbohrer is the leading complete provider for sustainable slope management:

From alternative drive concepts for our PistenBully to digital solutions with SNOWsat and to comprehensive training courses in our PRO ACADEMY, we offer you a one-of-a-kind package of intelligently networked products, services and processes.

SUSTAINABLE, OPEN TO TECHNOLOGY AND INNOVATIVE.

PISTENBULLY

Our PistenBully vehicles have been in operation successfully for decades and they powerfully and efficiently ensure ideal slopes around the world. In addition, we are already offering a hybrid model of this vehicle as well as the option of 90% CO₂-reduced operation with renewable HVO fuel. Fully electric, electrofuel- and hydrogen-powered drive concepts are in the testing phase.

www.pistenbully.com

PRO ACADEMY

As the world's first professional training academy for snow groomer operators, technicians and managers, PRO ACADEMY has been pursuing one goal from the start: to train your employees in slope management so that you can offer your guests ideal slopes every day with the best possible conservation of resources and efficiency. For a sustainably successful future for your company!

www.proacademy.info

SNOWSAT

Maximum transparency and real-time assessment of snow depth with accuracy to the centimeter, fleet status and fuel consumption – digitally networked and available at the push of a button. The digital solutions of SNOWsat help you make precise use of your resources while reducing fuel consumption, machine operation time and snowmaking expenses.

www.snowsat.com

SERVICE AND SPARE PARTS

With our service network at approximately 130 international locations, we ensure that technicians and spare parts are quickly and reliably provided worldwide. For minimum downtime and maximum efficiency of your vehicle fleet.

www.pistenbully.com/en/service



Even now, all new PistenBully vehicles can be operated with renewable HVO fuel with a 90% reduction in CO₂ emissions.

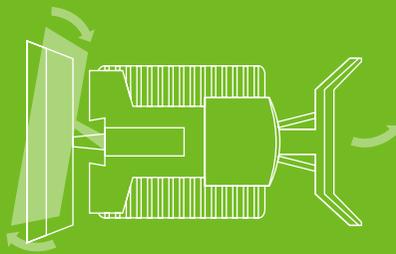
AUTOMATICALLY THE BEST SLOPE



BETTER SLOPES. LESS EFFORT.
WE KNEW YOU WOULD BE INTERESTED.

ASSISTANCE SYSTEMS

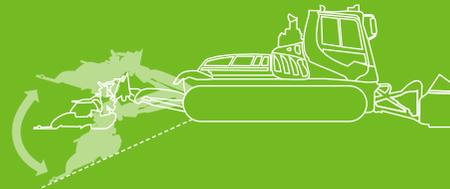
OPERATION



MAXIMUM TRACKING STABILITY

Autonomous steering assistance while cornering and automatic countersteering on side slopes simplify work for the operator. The rear implement carrier with smart, active steering assistance makes this possible in both the locked and floating positions.

→ **AUTOTRACER**



IDEAL GROUND FOLLOWING

Smart control of the combined implement carrier. Software enables use as a parallel implement carrier. Ensures ideal ground following of the tiller on hilly terrain and automatically adjusts the tiller depth. SlopeTracer simplifies operation and a large movement radius.

→ **SLOPETRACER**



INTUITIVE OPERATION

iTerminal with 10-inch display and touch control. Easy to read, easy to understand, easy to operate. Ergonomic double-joint joystick freely movable in all directions. 4 axes for 4 simultaneous movements and the proportional actuation of the all way blade. Everything can be set individually with just one hand.

In addition to these innovations, there are a whole array of additional assistance systems ensuring the easiest possible operation of the PistenBully 600 E+.

EACH COMPONENT IS A HIGH-END PRODUCT. THE KEY FORMULA FOR IDEAL SLOPES.



OPTIMIZED ALLWAYBLADE

Stronger snow screen with integral snowgun mount. Stronger mountings on the blade wings. Upgraded hydraulic cylinders. The AllWayBlade has been further optimized. For more stability. Better power transmission and rolling characteristics. And even more versatility on the job. The AllWayBlade: for precision, effortless slope preparation.



TRACKS FOR ANY JOB

It does not matter what you plan to use your PistenBully 600 E+ for. We have the suitable track for it:

- ⊕ Rubber profile track X-Track with 975 mm / 38 in width: for work in the toughest environments without damaging the ground.
- ⊕ Steel track with 1,648 mm / 65 in width: for extreme jobs on rocky surfaces.
- ⊕ CombiPlus track with 1,648 mm / 65 in width: the most advanced track and also the most successful one worldwide. Provides the best climbing performance on the market.

STANDARD EQUIPMENT



OPTIMIZED ALPINFLEX TILLER

The hydraulically driven AlpineFlexTiller Comfort is designed to provide ideal slope quality – even under extreme conditions. Innovative shape and arrangement of the tiller teeth. Built-in LED lighting. Memory function for saving and calling up all settings. Hydraulic locking of the tiller halves and hydraulically foldable side finishers. Also equipped with a camera. For maximum convenience.

EVEN MORE STANDARD EQUIPMENT

- + 6-belt or 7-belt CombiPlus Track to choose from
- + Biological high performance hydraulic oil
- + Rear implement carrier with vibration compensation and electric lateral damping
- + Telemetry for system updates
- + AutoTracer
- + SlopeTracer
- + LED lighting package
- + Rear camera
- + Central locking
- + Comfort seat

OPTIONAL EQUIPMENT

VEHICLE

- + Stick control
- + Hydraulic oil preheating
- + Front high-pressure connection (Technical package)
- + Premium sound package (Alpine subwoofers and amplifiers)
- + SNOWsat snow depth measurement
- + SNOWsat fleet management
- + 2nd additional tank with 120 liters
- + Foldable transportation gallery
- + Harness belt
- + 2- / 3- / 4- way track setter

Digital support from SNOWSAT

Connect people, data and systems.

SNOWsat unites all company divisions on one platform: From year-round slope and fleet management and maintenance to comprehensive management of the ski area. The highly precise snow depth measurement allows for optimum use of resources and sustainably lowers operating costs. For more efficiency and safety in slope grooming.

- + Snow depth measurement in real time: Underneath the vehicle, and thanks to SNOWsat LiDAR, up to 50 m ahead and to the side of the vehicle
- + Real-time display of the surroundings on the touchscreen on board the vehicle
- + Safe navigation in all weather conditions and environmental conditions
- + Less need for artificial snow through targeted snow production
- + Time savings through optimization of all workflows (e.g. less fuel consumption due to optimized driving routes)
- + Manufacturer independent: SNOWsat can be retrofitted in all vehicles



snowsat
SOLUTIONS FOR DIGITAL SKI WORLDS

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