



GRAPHITEVOLUTION



WWW.AZTEC.FR

Our values define us

ACCESSIBLE

KEY TO OUR
AVAILABILITY

RELIABLE

BENCHMARK
OF EXCELLENCE

PROACTIVE

TO ANTICIPATE OUR
CUSTOMERS' NEEDS

BOLD

KEY TO OUR
COMMITMENT

FLEXIBLE

KEY TO OUR ABILITY
TO ADAPT



MOUNTAIN WORKER

Founded in 2009 in the heart of the Alps, AZTEC is the only French manufacturer of snow groomers for ski runs.

AZTEC's offerings are differentiated by the cost-savings and functionality its product provides as well as the company's customer service.

As illustrated by our industrial partnership with the Compagnie des Alpes and the Compagnie du Mont-Blanc, AZTEC works with key ski industry figures to guarantee that its offerings continue to meet the expectations of its ski resort customers.



WE EARN OUR PARTNERS' TRUST



ALL-ROUND EVOLUTION

A UNIQUE CONCEPT

GRAPHIT Evolution is the only groomer to integrate a winch from the design phase. It boasts the latest modifications, developed in partnership with actual users.

POWERFUL

- ▶ A VOLVO PENTA motor that is more powerful, more dependable and more fuel efficient
- ▶ 22 km/h, a key advantage for higher productivity
- ▶ 17 km/h with the winch, even on the steepest inclines
- ▶ Weight/power ratio below 26 kg/cv
- ▶ Climbing ability up to 100% (45°)

ROBUST

- ▶ Reliability that is recognized by our customers
- ▶ Light-weight to preserve the chassis and the undercarriage
- ▶ Standard, reliable parts

MULTI-PURPOSE

- ▶ Very easy to learn to use
- ▶ Ease of steering for creating terrain park elements
- ▶ Cross beam can be lowered to drive everywhere

DIFFERENT

- ▶ Synthetic cable, much lighter, safer and repairable
- ▶ TSC technology, simple and robust
- ▶ Reinforced visibility
- ▶ Cross beam can be lowered for ideal stability

ECONOMICAL

- ▶ Increased fuel efficiency thanks to the new VOLVO PENTA engine and the light-weight winch
- ▶ Use of standard parts
- ▶ Exceptional maintenance accessibility

COLORS BY AZTEC

Choose the color that represents you best !

AZTEC offers a full range of colors to customize your GRAPHIT Evolution.



EFFICIENCY COMES STANDARD

La GRAPHIT Evolution has many standard features, to satisfy the most demanding users.



TILLER

An indicator of maximum productivity, the width of the slope actually groomed is 440 cm.

The Heavy-Duty flex tiller has an assisted turning system that allows it to follow the groomer's turns.

BLADE

The Heavy Duty 12-position blade is both rapid and precise.

The construction of the reinforced blade, designed to operate within the axis of the chassis along with the double-action cylinders ensure longer longevity for the machine and optimum thrust force.

The blade is aggressive and deep, guaranteeing efficiency even in the most difficult snow conditions.

STANDARD SNOWPARK SHAPING

The GRAPHIT Evolution is equipped with a blade and tiller that are easy to steer, allowing for effortless shaping of even the most ambitious terrain parks.

The Heavy-Duty flex tiller can easily be blocked manually to ensure clean and precise manoeuvres.

TRACK ROLLERS

The 6-band rollers with aluminum links and steel, centered inserts optimize the distribution of effort and ensure an excellent grip on the snow, even when the machine is tilted or freezing conditions exist.

The centered position of the track rollers greatly facilitates maintenance operations that require the rollers to be removed and then replaced.

HIGH-PERFORMANCE LIGHTING

Six headlamps, 2 of which are intense LED lights, plus 2 LED rear lights, guarantee a well-lit work area without blinding other groomers that are nearby. This set-up is more environmentally friendly and helps simplify maintenance operations.



440cm
WIDTH OF SLOPE
GROOMED



12
VERY PRECISE
POSITIONS



6 TRACKS
-BAND



4
LED HEADLAMPS
10 LIGHTS IN ALL

A TECHNOLOGICAL REVOLUTION FOR INCREASED FUNCTIONALITY

THE MAIN ADVANTAGE : A WINCH BUILT INTO THE FRAME

The teams here at AZTEC have worked out and enhanced all of the technical benefits of the synthetic cable to develop a light-weight and easy to maintain winch that is safe for drivers and for skiers in the vicinity.

Several patents have been filed for the TSC technology, developed by AZTEC.

CONSTANT PULLING FORCE

Even though the GRAPHIT Evolution is much lighter than the competition, it provides equivalent performance with a maximum pulling force of 3.5 tons.

Thanks to the continuously adjustable pulling force, high volumes of snow can be brought up. The winch engine with variable cylinder action combined with automatic or manual regulation holds the pull force that the driver needs, whatever the position of the rope on the drum.

LIGHT-WEIGHT

The synthetic cable decreased the weight of the entire winch system, bringing it in at 1.5 tons less than an equivalent steel traction winch equipped with a steel cable.

When used without the winch, the GRAPHIT Evolution enjoys the same performance, fuel consumption and driver comfort as the best standard groomers.

FOLDABLE BEAM

The winch structure can be easily folded behind the cab by the driver when the winch is directed backwards.

The GRAPHIT Evolution is the only winch groomer that can move safely under a surface lift or chairlift rope. It can thus easily do the work that was usually reserved for standard groomers.

180° REAR VISIBILITY

Thanks to the horizontal winch drum, the absence of a capstan and the TSC technology, the GRAPHIT Evolution provides a clear rear view. The driver can back up and move safely, making it easy to inspect the quality of his or her work.



THE ONLY
WINCH GROOMER THAT
CAN PASS SAFELY UNDER
A SURFACE LIFT ROPE



REAR VISIBILITY
180°



MAXIMUM TRACTION
3,5t



THE SYNTHETIC
CABLE:
SAFETY AND
PERFORMANCE
ENSURED



VISIBILITY DURING THE
DAY AND NIGHT

With its bright orange color, the synthetic cable attracts attention night and day, providing high safety for ski patrollers, skiers, hikers and those sledging, etc.

LIGHT

With only 86 g/m, the synthetic cable is 10 times lighter than a steel cable with the same strength and durability. It is easy to handle for more comfort and increased safety, especially when the driver has to pull out long distances to reach an anchor point.

SAFE, EVEN IF IT BREAKS

Steel cables cause a lethal whipping effect when they break. The synthetic cable has no elasticity. If it breaks, it will lay down softly on the ground.

REPAIRABLE, EVEN
ON SITE

If the cable accidentally breaks on the slope, the driver can repair it on site. The operation takes less than 10 minutes and the rope recovers 100% of its strength.

SAFE TO HANDLE WITH
BARE HANDS

The synthetic fibers are soft and the cable can be handled with bare hands under all circumstances.

OPTIMIZED BUDGET

Unlike steel cables that must be changed regularly, the synthetic cable is easy to repair and to elongate. When a segment shows signs of wear, the synthetic cable can be repaired by replacing only the section that is worn.



10x
LIGHTER THAN
A STEEL CABLE



ONLY
86g/m



REPAIR TIME
LESS THAN
10min

POWERED BY VOLVO PENTA

The 510 hp of the D13 VOLVO PENTA motor that powers the GRAPHIT Evolution makes it one of the most powerful groomers on the market.

Its excellent balance and powerful operation even at low rpms make the D13 a very quiet motor with a very low level of vibration.

ECONOMICAL AND ENVIRONMENTALLY FRIENDLY

Complies with the EUROMOT/TIER 3B exhaust emission standard and ISO standards 3046, BS5514 and DIN 627.

Due to its high power at low rpms and a combustion optimized for the SCR system, the D13 has excellent fuel economy.

Emissions reduced by more than 90%.

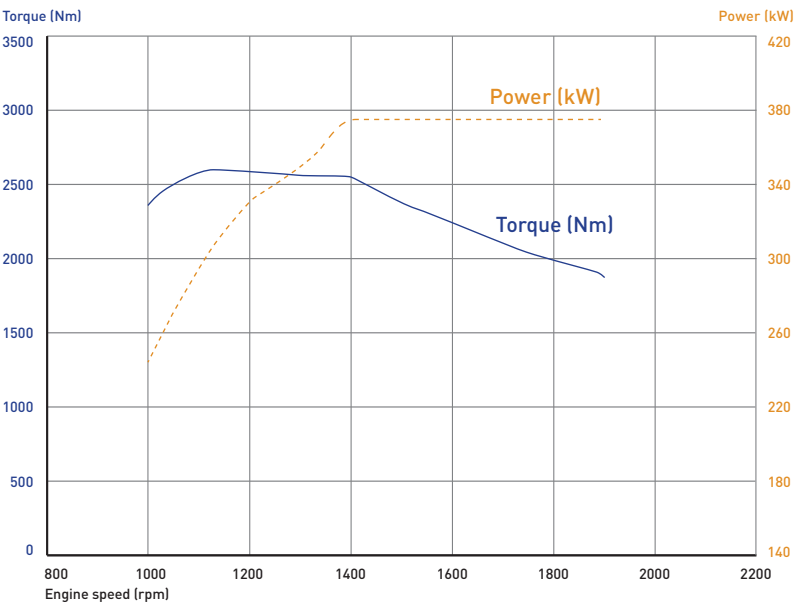
LESS MAINTENANCE

Simple and robust design that focuses on reliability.

Compact and accessible to ensure ease of access.

Less frequent maintenance required.

It benefits from the VOLVO PENTA maintenance network.



UNPARALLELED POWER AND IMMEDIATE START-UP AT ANY ALTITUDE

- ▶ The 6 in-line cylinders of the D13 VOLVO PENTA provide a maximum torque of 2595 Nm at 1200 rpm with 510 hp (at 1400 rpm). The GRAPHIT Evolution is the only groomer that has so much torque at such low rpms.
- ▶ Perfectly adapted for high-altitude work, the VOLVO PENTA motor is not significantly affected by derating.

SCR SYSTEM

POWERED BY **VOLVO PENTA**

- 1 Urea tank
- 2 Tank heater and fill gage
- 3 Urea reheating valve
- 4 Urea fill unit
- 5 Humidity sensor
- 6 Compensator
- 7 Urea injector
- 8 Temperature sensor
- 9 SCR (Selective Catalytic Reduction)
- 10 Nox sensor



EASY AND INTUITIVE TO LEARN TO OPERATE

CONTROL PANEL

Groomers confirm that just it takes just a few minutes to master the GRAPHIT Evolution and benefit from its high-performance, providing significant flexibility in staffing the teams assigned to grooming tasks.

Its shifting mechanism guarantees precision and the ergonomic shifter provides an excellent grip.

The compact cabin allows for safe operation when near obstacles (bumps, poles, etc.).

Benefiting from aeronautical technology, its windshield and side, anti-ice microfilament windows guarantee visual comfort even during whiteouts. Lastly, the central driving position provides clear visibility ahead and to the sides for safety and improved driving comfort.

Comfort is at a maximum thanks to the cabin's acoustic and vibrational insulation provided by a pneumatic Recaro seat.

PNEUMATIC SEAT **RECARO**

ROOMY PRECISE MANEUVERS

MAINTENANCE & SERVICE : CREATED IN PARTNERSHIP WITH NATURE



LOW MAINTENANCE THAT IS SIMPLE AND SAFE

Exceptional accessibility

The motor compartment as well as the main parts of the GRAPHIT Evolution are easily accessible and require no preparation for maintenance operations. Side and back access doors open with a single movement, ensuring quick and easy maintenance.

Daily tasks that can be carried out on site :

- ▶ diesel and urea intake with foolproof device
- ▶ hydraulic level controls
- ▶ visual cable control

Diagnostic assistance on control screen for when there are breakdowns

TSC, a simple and maintenance-free winding system

Several patents have been filed for the TSC technology, developed by AZTEC: the cable is spread across the entire drum on winding by a mere oscillation of the drum created by the cylinder. The GRAPHIT Evolution is therefore the first groomer with a winch that needs no adjusting or maintenance.

Easier garage access thanks to its winch that can be lowered

Availability and cost savings

AZTEC only uses high-quality, industrial parts that are standard and that have proven their reliability. We have most components available for our customers and guarantee quick delivery and installation.

SERVICE ORIENTED

- ▶ Our support teams are available 365 days a year, 24 hours a day.
- ▶ 5 vans and 3 light-duty assistance vehicles are available at all times.
- ▶ 100% of parts are available in stock at our industrial location in Crolles (dept 38)
- ▶ AZTEC is committed to being the most responsive vendor in the market, with the most technicians available for each machine.

HELPING YOU BE INDEPENDENT

AZTEC provides regularly scheduled technical training for interested workshop supervisors, mechanics and drivers. All technical diagrams for the GRAPHIT Evolution are made available in mobile format.

TASKS **CARRIED OUT ON SITE**

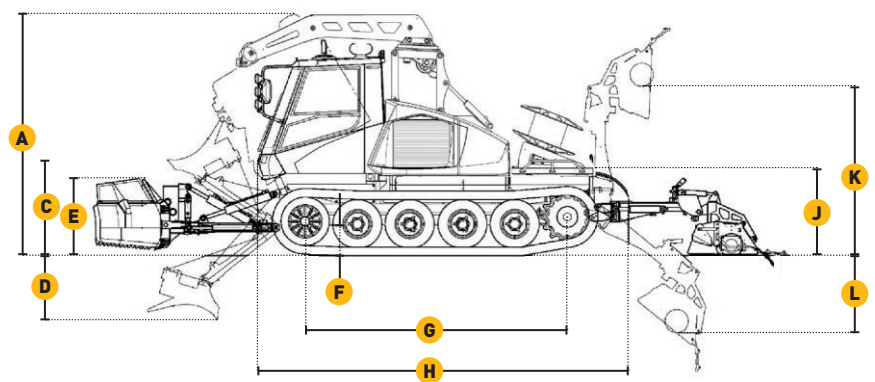
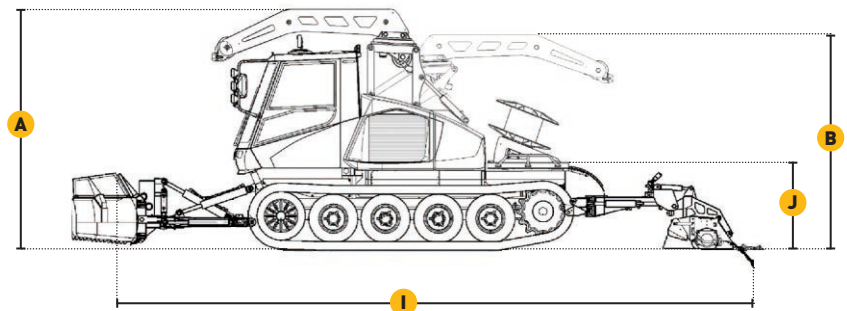
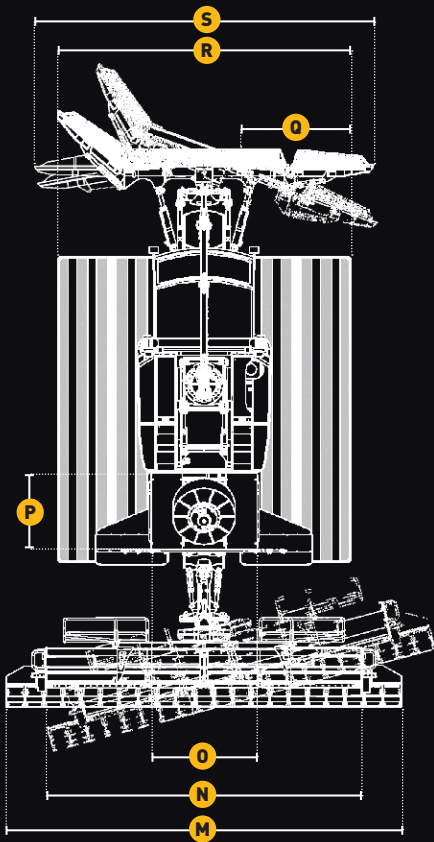
WINCH NO ADJUSTING OR MAINTENANCE

100% OF SPARE PARTS IN STOCK

TECHNICAL CHARACTERISTICS



GRAPHITEVOLUTION



WEIGHT

Total weight : 13 400 kg

Weight/power ratio : 26 kg/hp

MOTOR

Type : [6 cylinder, direct injection with air/air exchanger] VOLVO PENTA D13

Displacement : 12,78 l

Power output kW/cv : 375/510 (1400)

Maximum torque Nm (rpm) : 2595 (1200)

Fuel tank capacity : 310 l

Capacity of urea reservoir : 40 l

Fuel consumption : up from 20 l/h

Exhaust emission standard : EUROMOT/TIER IIIB

ELECTRICAL SYSTEM

Alternator : 24 V-150 A

Batteries : 12 V-140 Ah x 2

PERFORMANCE DATA

Speed, continuous variable : 0-22 km/h (S), 0-17 km/h (W)

Ground coverage : 128 800 m/h

Climbing ability : 100% (45°)

DIMENSIONS

A 3 280 mm

B 3 070/3 300 mm

C 1 270 mm

D 850 mm

E 1 080 mm

F 400 mm

G 3 674 mm

H 5 200 mm

I 8 720 mm

J 1 170 mm

K 2 240 mm

L 1 020 mm

M 5 600 mm

N 4 400 mm

O N/A

P N/A

Q 1 665 mm

R 4 340 mm

S 5 600 mm



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