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IMPROVEMENTS IN COSTS AND EFFICIENCY THROUGH ACCURATE MONITORING

we highlight the optimization carried out and ascertain whether the objectives have been achieved or additional actions are required.

SNOWHOW

SNOW DEPTH MEASUREMENT

NEVER SNOWED UNDER.
Outstanding snow management with PRINOTH’s SNOW DEPTH MEASUREMENT.

12% saving on resources
15% increase in efficiency
11% cost saving

In collaboration with Leica Geosystems, PRINOTH is offering SNOW DEPTH MEASUREMENT, a satellite-based system which makes visualization and highly accurate measurement of snow depth possible.

Based on the tried-and-tested Leica iCon Alpine, the software has been specially adapted to meet requirements in the snow. This system uses a 3D model of the terrain without snow to provide the basis for accurately measuring snow depth.

*The figures shown here relate to the past experience of SNOW HOW users. The actual savings may vary depending on the size and organization of the ski resort.
The operator is shown the exact snow depth and the terrain profile in real time on a monitor installed in the snow grooming vehicle. This means that during the preparation stage he can respond directly the real-time data provided by the GPS antenna and angle sensor. Snow management is thus optimized from production to distribution and preparation.

SNOW DEPTH MEASUREMENT can be used for slopes, parks and pipes as well as ski jumps. It is a satellite-linked system which provides accurate measurements based on reference data, obtained separately. The Leica Geosystems and PRINOTH teams also offer full customer support following the vehicle delivery.

The Leica Ready Kit is pre-installed in the vehicles by PRINOTH at the factory. The system configuration and final commissioning at the customer’s premises is carried out by Leica Geosystems using the Leica iCon Alpine system.
EXPLANATION OF INDIVIDUAL COMPONENTS

3D terrain model
- As a reference for calculating current snow depth (below the vehicle and blade)
- As a basis for terrain modelling (covering ditches or constructing parks)

Two-antenna system
- Higher level of precision
  - Faster initialization
  - 2 measuring points under the vehicle
  - 1 measuring point under the blade
  - Reference station for positioning accurate to the centimeter
    - ± 3 cm below the vehicle
    - ± 5 cm below the blade

Live sensor technology
- Calculation of the absolute depth under the blade in real time

Data transfer between machine and server over UHF or GSM
- Measurement data is updated immediately after the passage and can be accessed in all vehicles
- Separate display fitted as standard
- Snow measurement results are always visible
- Vehicle data remains visible
- Various viewing modes
Snow is our profession. Being a snow groomer manufacturer, PRINOTH is an expert in slope preparation. We have international market knowledge, global expertise, and many years’ experience acquired in our everyday work and at world championships and Olympic Games. SNOW DEPTH MEASUREMENT provides a measurement system under both the blade and the vehicle, making it possible to react directly and immediately to snow conditions, and is therefore unique. Owing to our many years of measurement experience we guarantee absolute reliability. The equipment is installed at the factory, and Leica Geosystems carries out the installation and conducts training at your site.
An example of the benefits of SNOW DEPTH MEASUREMENT.

With the increasing cost of making snow, huge savings can be generated by precisely knowing the thickness of your snow coverage. Saving a 3 inch thick layer of man-made snow on a 2 mile long by 300 foot wide slope means approximately 3.5 acre-foot less snow to produce. If you apply these figures to your entire ski area, there is no need to say that the PRINOTH and Leica Geosystems solution gives you great saving possibilities.

In addition, SNOW DEPTH MEASUREMENT allows you to easily plan the start of the season and the end of the season activities.

**Start of the season**
Certainty when deciding to open slopes thanks to precise information about snow depth

**End of the season**
Targeted movement of snow allows slopes or sections of slopes to be kept open
HUGE BENEFITS FOR YOUR SKI RESORT

SNOW DEPTH MEASUREMENT means you can act rather than react.

- Targeted and optimized snow management
  - Making snow
  - Moving snow
  - Slope preparation
- Planning certainty during seasons with little snow
- Prolonged slope quality
  - Extra skiing days at the start and end of the season
  - Durability of the slope is optimized every day
- Targeted terrain modelling
- Improved slope quality
- The only manufacturer with position measuring directly BELOW the blade
  - Saves time and reduces costs
- Data quality in real time
  - Immediate view of the snow situation
  - Transmission of data in real time to other drivers’ vehicles
PERSONAL DISCUSSION
We jointly clarify the requirement, effort and necessary steps for the fastest implementation possible.

REQUIREMENTS ANALYSIS
We analyze the current situation, define the requirements profile and determine objectives, expectations and opportunities for improvement.

EQUIPPING THE SNOW GROOMING MACHINES AND INSTALLING THE SOFTWARE
The system solution comes from PRINOTH and Leica Geosystems. The vehicles are prepared in advance by experts.

TRAINING BY PRINOTH EXPERTS
We prepare the reference data and infrastructure and hand over the vehicles and train the drivers.

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We highlight the optimization carried out and ascertain whether the objectives have been achieved or additional actions are required.

SPECIFICALLY - WHAT HAPPENS NEXT
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