The innovative cleaning procedure





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What is the job of our sweeping brushes?

The airport-specific clearing concept including the respective working width and speed will complete the following tasks:

- 1. The ground surface is cleared in a total time of 3-5 minutes.
- 2. In addition, sweepings are picked up (and not thrown away).
- 3. Also, the same tool thus giving an enormous cost saving lifts up the sweepings, which are not shoved or transported on an air cushion.
- 4. The sweepings are accelerated, routed and processed in a controlled and power-saving manner.
- 5. The sweepings are passed on by a sealed casing construction unaffected by wind.
- 6. The sweeping brush is cleaned across a wide angle. A brush is rarely clean after a 90° pass, but our 230° broad clean also makes it possible to drive very fast without forfeiting the quality of the clearing.
- 7. Finally, blockage risks are eliminated.

The sweepings are always in between a moving part and a stationary part, which can be brought into direct contact for cleaning where necessary. In our sweeping system, seven functions are completed during one revolution.

What happens to the contamination?

- a. If necessary, there is an option to break up the contamination by additional tools (possibly with varying part widths and assemblies).
- b. Each gram of contamination is only picked up once (#2 above).
- c. Each gram of contamination is only lifted once (#3 above)
- d. Even loose material is compacted together, like forming a snowball, via a relatively long route, saving space and making it resistant to wind.

The contamination runs through a forced conduit which is free of blockages. Nothing is left to coincidence. There is no flying ice to cause dangers for persons and materials near the operating machine. Additional safety distances to our operating sweeping machine are not necessary. No flying material can build up on the vehicle to give it unnecessary ballast, which would limit it in its permanent 24 hours a day function.



How is power being used intelligently?

- I. Shoving and ploughing the contamination is not done in a manner that would use a lot of power, costs or time.
- II. Contamination is not transported on an expensive air cushion, but on a horizontal conveyor belt, which by physically laws costs nothing.
- III. Each gram of contamination is only picked up once and transported directly to its destination.
- IV. Light snow is not first pressed into the upper structure of the surface of the ground with a scraper blade, but rather picked up directly using a powered brush.

How intelligent is the entire LIMA procedure furthermore?

- 1) Each working width metre will be confronted with contamination like the others. There is no limiting vehicle even no limiting working part width, which must take more than the others.
- 2) Targeted offloading at the edge of the runway whether by staggered driving, targeted indented driving on individual clearing runs, or regulated output widths snow piles can be built up with little rises in precisely defined heights with little valleys between. In this way, the precisely definable deposits in their height and width can be artificial speed retarders where uncompacted blown snow coming from nearby lawn areas can collect.

We would be glad to present to you even more of the machine's intelligent features if we can work together. We await your valued order with pleasure.