

# Air Grader

Data sheet 1/3 Date 07/2008  
Technical description



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The Air Grader separates the material to be sifted into three fractions: Useful material, coarse material containing heavy impurities and wood particles with unwanted geometry (needles, etc.), and material that falls through the sieve, above all sand.

It normally works with about 85% circulating air, 15% of the sifting air leaves the system and is passed through a cleaning system. In the sifter systems, the sifting material drops through a rotary feeder valve and the central drop-in pipe into the fluidized chamber.

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Data sheet 2/3 Date 07/2008  
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Stirrer arms rotating above the base of the screen distribute the material evenly over the screen surface through which the airflow enters from below into the fluidized chamber. By selecting the appropriate air speed, it is possible to achieve the required opening effect – and with it the sifting limit – for the overall material. The coarse material that cannot be fluidized is moved towards the edge of the sifter by the stirring arms, and gated out via rotary feeder valves. The fraction of the material that can be fluidized is transported out with the airstream and separated via a high-performance cyclone or HURRITEC. The material that drops through the screen is removed via an auger conveyor

## Performance

- Core layer sifter: Up to 52,000 kg abdr/h
- Surface layer sifter Up to 29,000 kg abdr/h

## Applications

- Sifting of surface and core layer chips
- Separation of mixed chips into surface layer, core layer and sheaves
- Separation of foreign bodies such as sand, stones, metal, glass or bark, in particular when recycled wood is used

## Sifter fluidized chamber with

- Feeder valve
- Agitator with pneumatic cleaning system
- Quick-change device for the upper screen bed
- Outfeed valve for coarse material
- Outfeed auger and valve for sand
- High-performance cyclone(s) type CS or HURRITEC
- Main fan
- Linking hose lines with flaps
- Manual extinguishing
- Explosion protection concept in line with the ATEX directive

## Options

- Heating of the sifting air
- Air quantity regulation

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Data sheet 3/3 Date 07/2008  
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## Technical advantages

- Highest throughput in one machine
- Precise separation according to chip thickness
- Continuous and consistent sifting, irrespective of startup and shut-down operation or fluctuating material supply
- Precise sorting of heavy impurities
- Maximum performance
- Low maintenance complexity because of pneumatic/mechanical cleaning system
- Energy saving and less steel fabrication due to the cyclone type: HURRITEC
- Low spare part levels
- Precise compliance with sifting limits as well as infinite adjustment of the chip thickness

## Design features

- Compact space requirement combined with flexible installation options
- Rapid ability to replace spare parts

## Dedusting

- HURRITEC
- High performance cyclone(s) CS
- Hose filter



High performance cyclone