allmineral

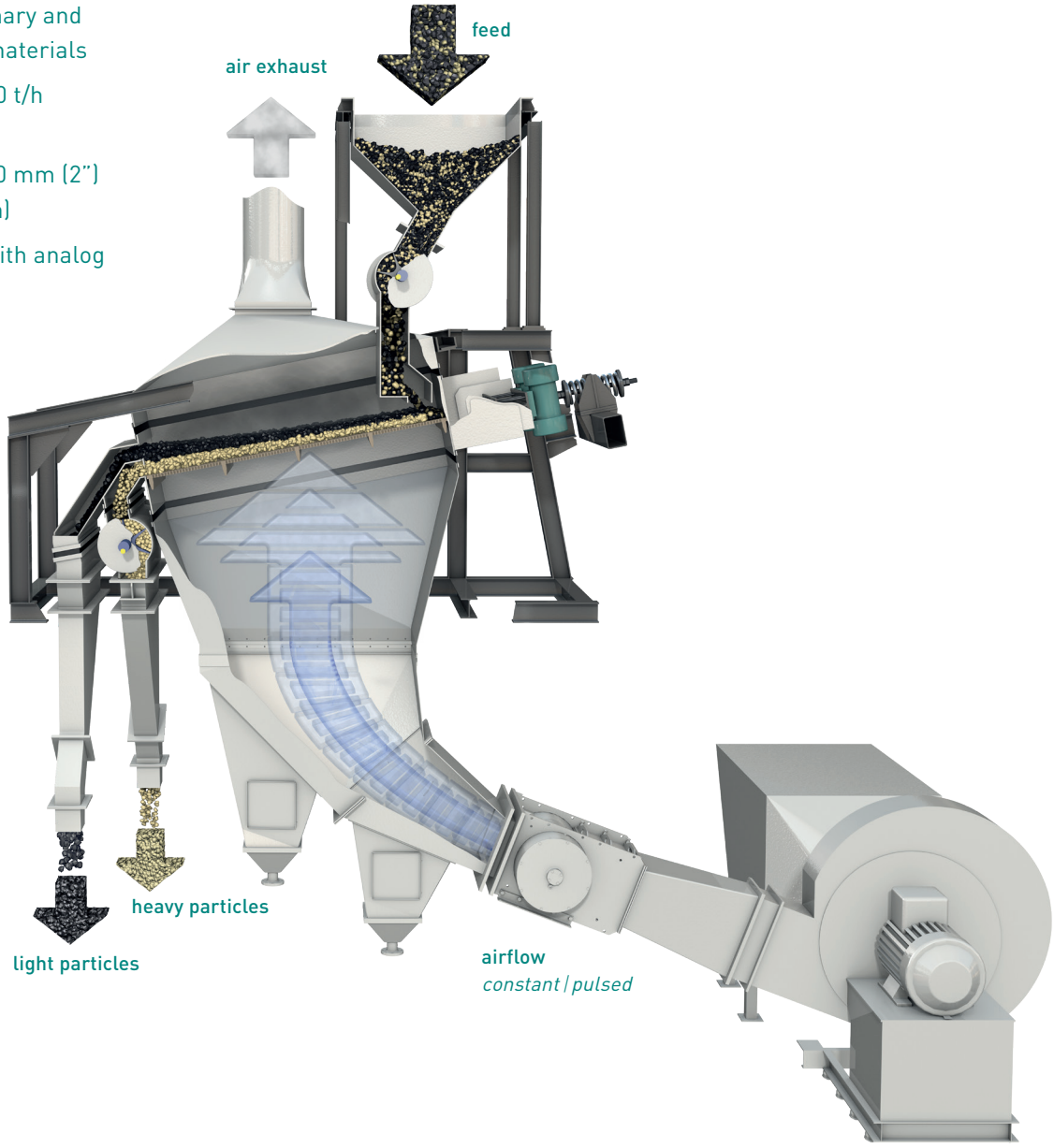
allair® | Product Information

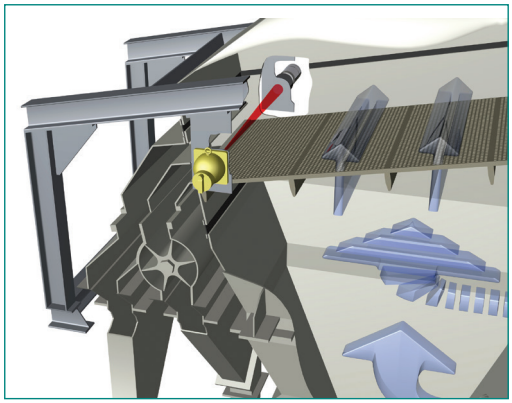
allair®

Applications
Coal, recycling materials

Advantages
High efficiency, dry density separation, sulfur and ash reduction of coals without moisture gain, no need for process water, clarified water or water purification, no fines dewatering, no slurry impoundment, simple permit requirements, high productivity, large feed size range, high capacity, low capital and operating costs, reliability, easy to operate

Technology
- completely dry working air-pulsed jig with high efficiency
- separation of different primary and secondary raw and waste materials
- throughput rates of 20 - 100 t/h per machine
- particle size ranges from 50 mm (2") to less than 1 mm (16 mesh)
- fully automatic operation with analog measurement of bed depth





allair® | electronic densitometry

allair® | Mobile-Version

The **allair®**-jig was invented for dry upgrading of coal. The advantages of jigging processes are combined with the advantages of dry beneficiation processes; e.g., no need for process water, clarified water or water purification, no fines dewatering, no slurry impoundment.

The calorific value of coals can be increased significantly by dry processing with the **allair®**-jig. The sulfur and ash content of coals is reduced simultaneously without moisture gain.

The **allair®**-jig also separates Pyrite from the coal and thus contributes to reducing SO_2 emissions. At the same time the maintenance costs at the power plant can also be reduced.

For coal producers the **allair®**-jig is an innovation that may improve productivity as well as quality. The possibility of reducing ash and sulfur content without increasing moisture in the process contributes both to the best possible use of natural resources and to significant profitability increases.

Power plants can reduce their maintenance costs and increase the calorific value of the coal.

The **allair®**-jig can process particle size ranges from 50 mm (2") to less than 1 mm (16 mesh). The **allair®**-jig can either be integrated with the existing coal handling system at the mine or installed downstream from the primary crusher at the power plant.

The **allair®**-jig is also suitable for the cleaning of different raw and recycling materials like rubble or slag. The only prerequisite is a difference in the particle density.

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