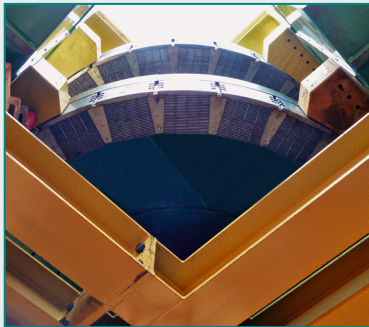


**allmineral**



**allgauss®** | Product Information



# allgauss®

## Wet High Intensity Magnetic Separator

### Applications

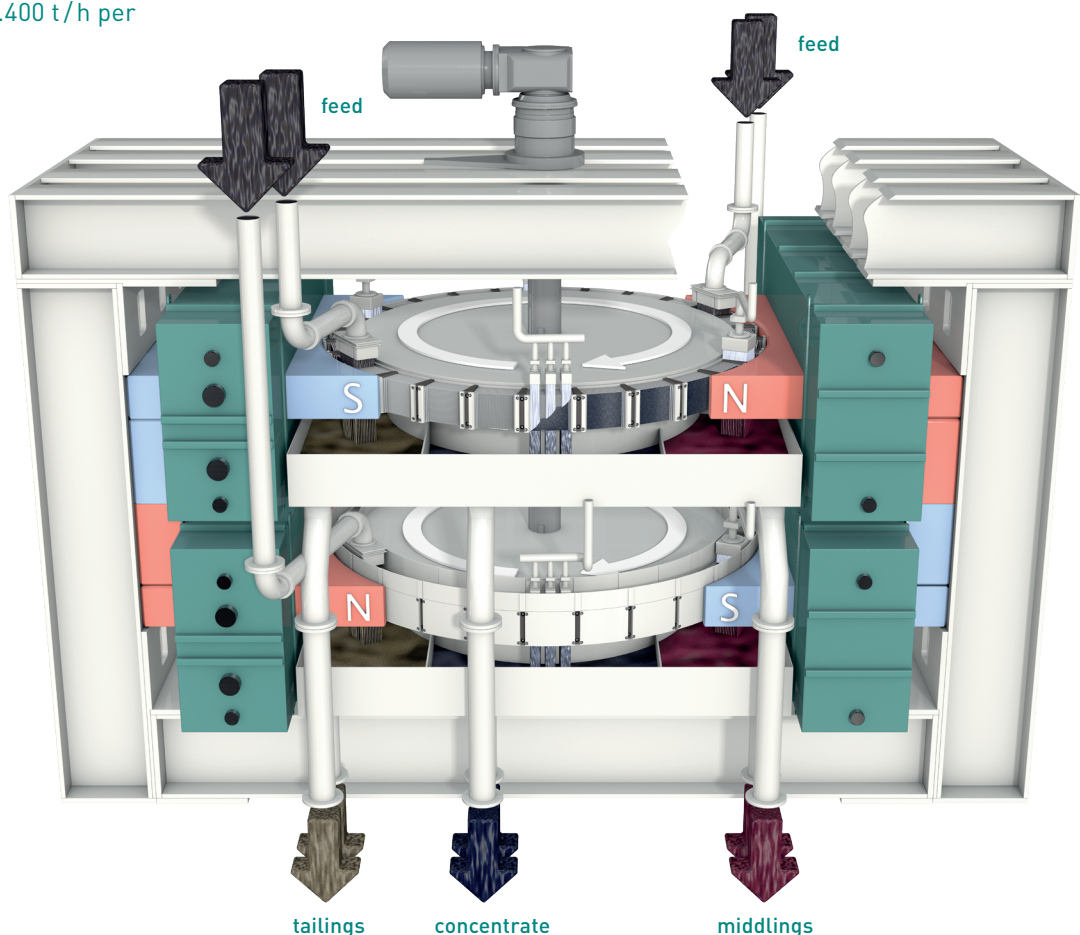
Iron ore (hematite, goethite), ilmenite, chrome ore, manganese ore, tungsten ore and other paramagnetic resp. feebly magnetic minerals

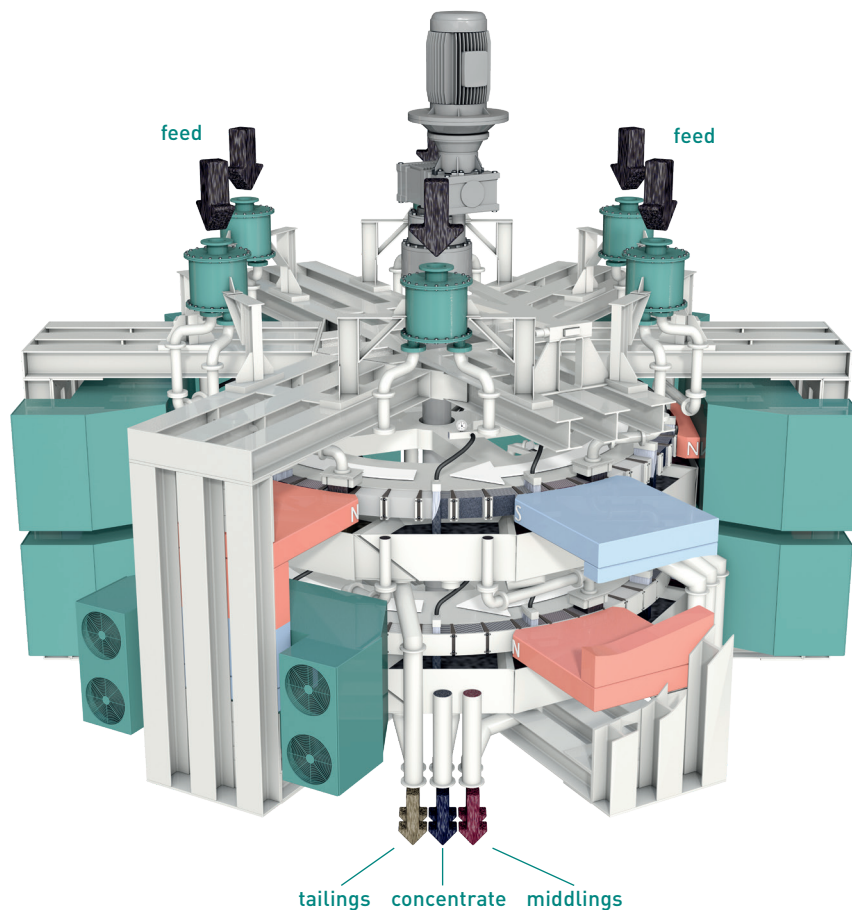
### Advantages

High efficiency, high flexibility, sharp separation, reliability

### Technology

- Wet High Intensity Magnetic Separator with a maximum of flexibility
- separates ores and other paramagnetic and feebly magnetic minerals with a particle size up to 3 mm.
- the high gradient magnetic field is independently adjustable for each rotor through AC/DC converters.
- the rotor speed is adjustable from 3 to 7 rpm through a frequency inverter.
- throughput rates of 6 to 1.400 t/h per machine.





**allgauss® | Hexagon**

Throughput rates of 630 to 1.400 t/h per machine

## The allgauss® | Hexagon series offer several technological innovations

### High Tech Coils

#### *Electricity Saving*

- up to 50% compared to the existing equipments in the market. *(for the same magnetic field intensity)*

#### *Air Cooling system with magnetic stability*

- no water needed for the cooling of the coils.
- the magnetic field remains constant at the level adjusted. *(Closed Loop DC Control)*

### Easy Maintenance

- larger space for maintenance and operation. *(especially between the rotors)*
- automatic Lubrication System.
- field instrumentation

### Project Outlines

- 8 feeding points per equipment. *(4 points per rotor)*
- 8 electromagnetic coils. *(4 per rotor - tetra polar)*
- coil arrangement in X shape.

### Water Saving

- no water needed for the cooling of the coils.

### Easy Operation and Processing

- equalized feeding through feeding boxes with individual flow control.
- equipment supplied with water filter.
- adjustable rotor speed from 3 to 7 RPM through frequency inverter.
- option to magnetize the top and bottom rotors at different magnetic intensities by means of two separate AC/DC Converters to feed the coils. This feature enables two processing stages to take place *(rougher + cleaner / rougher + scavenger)* in one unit.

### Economical Advantages

- lower specific CAPEX and OPEX per ton of feed.
- less ancillary equipment required.
- simplified processing flow sheet and plant layout, e.g. reduced footprint and building costs.

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