



Auger with paddles for ash and slags - 34619



Specifications

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- Diameter: Ø400
- Material screw flights: Hardox-450
- Material inner tube and shafts: 1.0570 carbon steel
- All weldings 100%

Additional Information:

Product type:

Screw rotor

Applied steel in product:

Carbon steel, Hardox plate



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Short Description

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This auger with paddles or paddle screw rotor is manufactured for transportation of ash. In this application the first part of the auger has standard cylindrical flight. After the cylindrical flights, the auger has paddles. The use of cylindrical flights ensures that you move material fast away from the inlet of the screw conveyor. The paddles ensure mixing of the material and that minor lumps can be crushed during the transport.

Augers for transportation of ash and slags are often manufactured with paddles due to description below.

Why shall I use paddles in an auger?

1. Between the paddles there is air. It means that material flow in the auger is broken and moved when new material pushes on it. This create a mixing of the material
2. The above process by using paddles can also be used for sticky materials that could cause blocking by using cylindrical flights
3. Material with lumps that can relative easily brake are suitable for an auger with paddles. They will brake during the transport process and equalize the material flow

Conclusion – use auger with paddles, mixing, lump braking or sticky material.

Paddle screw conveyor for ash transportation. The screw rotor is designed to transport out ash from an electro filter in a power plant. The paddle design ensures that minor lumps can be crushed during the transport.

Technical note

- When designing paddles for augers, the paddles shall have the same surface compared to a cylindrical flight – a helix surface. If you just use a cut-off plate, you will have an increased wear on the paddle.
- When calculating the capacity of the auger deduct the area that is missing compared to a cylindrical auger. Then you have a rough estimate of the capacity.
- Auger with paddles shall be designed for lower filling degrees – Below 20% to ensure an optimal function.

See another example on a screw auger for mixing