

Skip Hoist System



Specialized in environment
Technology since **1970**

Functionality of the Skip Hoist System:

The FSM skip hoist system features a collecting box (skip) mounted in guide rails.

At the upper end of the guide rails the skip is connected to a special winch that raises and lowers the skip.

At the upper section of the track the skip is guided over a container and tilted so that screenings and grit are discharged into the container. At the start of the cycle, the empty skip is at the upper end of the track. The winch drive starts in the opposite direction and lowers the skip down to the end of the track.

The skip is now ready to take in screenings and separated grit. In case of higher lifting heights, a second hoist is installed parallel to the first hoist, enabling the second hoist to be filled while the first hoist is being emptied.

A diverting chute is installed to apportion the screenings and grit to the two skips. The chute is swiveled by a drive from one discharge point to the other.

If the hoist system is required to be fully automatic, the skip must be provided with a level measuring device. Weighing cells can be used for this purpose.

Advantages:

- High reliability through robust construction
- Completely automatic operation
- Suitable for receiving grit, screenings, sludge and other residual materials
- Skip volumes up to 1 m³
- Excellent performance/price ratio
- Low maintenance costs
- Can be used outdoors and for operation in winter
- Proven in international operation

The FSM skip hoist system for lifting screenings and separated grit from deep levels.

Pumping stations provide challenging problems for machine designers. To protect the pumps from damage, screens and grit separators are installed. The ensuing screenings and grit which are removed from the water at deep levels have to be conveyed vertically to ground level.

Applications in clarification plants and pumping stations

- For raising diverse residual materials vertically

Applications in the paper and cellulose industry

- For raising diverse residual materials vertically

Applications in power stations

- For raising diverse residual materials vertically

Industrial applications

- For raising diverse residual materials vertically



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Dimensions:

Length/width/height	to suit
Lifting height	up to 100 m, higher lifting heights on request
Loading capacity	up to 1500 kg, higher capacities on request

Material/make:

Skip	Galvanized steel, stainless steel 1.4301 or 1.4571, further materials on request
Lift frame	Galvanized steel, stainless steel 1.4301 or 1.4571, further materials on request
Guide rails	Galvanized steel, stainless steel 1.4301 or 1.4571, further materials on request
Lifting rope	Stainless steel 1.4301 or 1.4571, further materials
Drives	Geared motors, make SEW

Machines for water and waste water treatment

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