

SPIRAL CONVEYOR and DISTRIBUTION SPIRAL for Reject and Residuals Streams



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Technology

The MERI Spiral Screw Conveyor (MSC) uses a rotating helical screw blade inside a trough, as the screw rotates, pre-treated Reject and Residual material is pushed forward (or backward, depending on rotation direction) working on the principle of friction + gravity, keeping material moving in a controlled flow.

The MERI Spiral Screw Conveyor provides a closed transport and is suitable for dry or wet materials (Reject and Sludge), can operate in steep inclination (30 Deg. and more).

A special version of the MSC is the Distribution Spiral (MDS) which consists of 2 Open Half- Spirals (right and left) and 2 opposite Discharge Points.

The Distribution Spiral (MDS) is loaded from top in the Center and depending on "Rotational Speed and Direction" of each screw the material flow can be divided (un-) evenly to the 2 Discharge Points or agglomerated to only 1 Discharge Point.

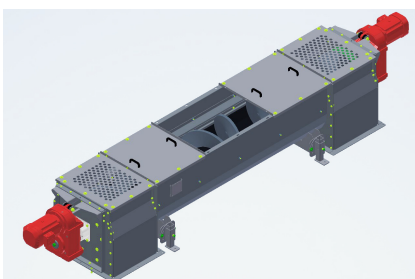
Features

The MERI Spiral Screw Conveyor (MSC) and the Distribution Spiral (MDS) offer several advanced technical features:

- Closed dust free Transport of pretreated materials.
- Heavy-duty steel flights for abrasive Rejects and Residuals combined with Wear- and guide bars or inlays provide optimal functionality and reliability
- Enclosed trough which is dust-tight, or for wet materials secures odor containment.
- Variable speed drive for adjustable throughput.
- Horizontal, inclined, or vertical (special applications only) configuration
- Can Single or multiple inlet/outlet points
- Distribution Spiral (MDS) which consists of 2 Open Half- Spirals (right and left) and 2 opposite Discharge Points and provides depending on "Rotational Speed and Direction" of each screw material Division or Agglomeration
- MSC and MDS handle wet, sticky, abrasive, or fine materials better than belts.

Why to buy

- Compact and enclosed > ideal for dusty or odorous waste.
- Durable > built for lightweight (plastic) and abrasive materials including fines (glass, sand, ash).
- Continuous, even feed > perfect for downstream equipment (shredders, boilers).
- Low spillage > less housekeeping compared to belts.
- Can be steeply inclined or vertical > space saving.
- Distribution Spiral (MDS) which consists of 2 Open Half- Spirals (right and left) and 2 opposite Discharge Points and provides depending on "Rotational Speed and Direction" of each screw material Division or Agglomeration > good for distribution or bypass arrangements with downstream dual/twin equipment



Typical & Proven Process

- Transport of pre-treated Reject and Residual Streams (fibrous sludge) within a mill / plant from different loading points to different discharge
- Dust free transport in closed conveyor
- In Reject and Residual (sludge) treatment distribution or bypass arrangements with downstream dual/twin equipment (e.g. 2 Sludge Presses)

See the following Products as well

- Lion Shredder
- Finger Sorter
- Meri Belt Conveyor
- COMPAX screw compactor Series
- ECOMPAX and Minipress
- Sicon Pocket Conveyor SPCS
- RSP Sludge and Residual Press

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