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MSC Screw Conveyors



Screw conveying for powder, granulated, and fine-grained materials. A design suited to the line length, incline, and material behavior.

APPLICATIONS

Powder materials · Granular products · Metered feeding

Operation and maintenance.

Screw diameter, pitch, rotational speed, and casing are all components of the conveying operation. In the MSC series, capacity depends not only on diameter but also on material flow, inclination, and line length.

01

Feeding

Material is fed into the screw inlet in a controlled manner.

02

Screw conveying

The rotating screw advances the material along the housing.

03

Discharge

Material is transferred to the next piece of equipment or storage point.

MACHINE DETAILS



01 Screw structure

Diameter, pitch, and rotational speed are evaluated in conjunction with fill level and material behavior.

02 Enclosed housing

Selection of tubular or U-shaped housing is based on product and maintenance requirements.

03 Drive

Conveying capacity, length, inclination, and friction collectively determine the motor selection.

APPLICATIONS

Powder materials

Controlled conveying within an enclosed housing.

Granular products

Selection suited to flow and abrasion characteristics.

Metered feeding

Feeding arrangement compatible with the control system.

Technical data.

Evaluate model selection together with material properties, target capacity and plant layout.

Technical specification	MSC-160	MSC-200	MSC-250	MSC-300	MSC-350	MSC-400
Screw diameter mm	160	200	250	300	350	400
Screw pitch mm	160	200	250	300	350	400
Tube / U-trough section	Ø168 tube / 170 U-trough	Ø219 tube / 220 U-trough	Ø273 tube / 275 U-trough	Ø324 tube / 325 U-trough	Ø377 tube / 380 U-trough	Ø426 tube / 430 U-trough
Motor power kW	2,2	3	4	5,5	7,5	11
Rotational speed rpm	90	90	90	90	90	70
Theoretical capacity m^3/h	6	10	18	28	40	50
Wall thickness mm	4	4	5	5	6	6
Total weight* kg	180	230	310	420	520	650

Selection notes

*Weight: Based on a length of ~6 m, standard gear-motor drive, and dual-end bearing support.

Calculations are based on calcite ($CaCO_3$) with a density of 1.6 tons/m^3.

The stated capacity values are theoretical; actual conveying capacity may vary depending on material particle size and distribution, moisture content, fill rate, screw speed (rpm), pitch-to-diameter ratio, inclination angle, conveying length, wear condition, and surface roughness.

Technical data support preliminary selection. Final capacity, power, dimensions and supply scope are defined in the technical quotation.

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From machine to plant. Engineering in every detail.

Metkan develops machinery and plant solutions for construction chemicals, minerals and aggregates. At our manufacturing centre in Elbistan, we consider equipment together with feeding, conveying and production flow.

Four inputs for selection

01 **Material and product**

Material properties; for bagged products, bag type, dimensions and weight.

02 **Process target**

Inlet conditions, required product and the next production stage.

03 **Production target**

Target hourly capacity, operating hours and production pattern.

04 **Installation**

Inlet/outlet levels, connections, drive and maintenance access.

Projects and sales

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Catalogue data support preliminary selection. Final capacity, power, dimensions and supply scope are defined in the technical quotation. Images represent the product family; configurations may vary.