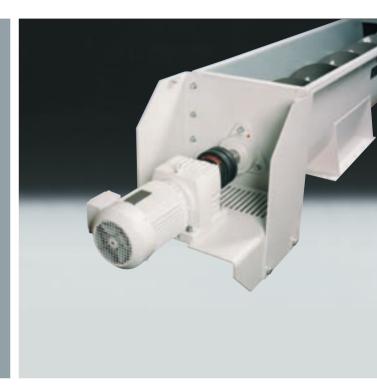


# Trough Screw Conveyor



SMQ

SANAT MECHANIC

## Trough Screw Conveyor SMQ

## Application

Horizontal or inclined material conveying, distribution, collection, mixing and discharge For floury and mealy, fine- and coarse-grained materials Application in grain mills and feed manufacturing plants, malthouses, bulk storage systems (for cereal grains, oilseeds and derivatives), food processing facilities, fertilizer factories, and in chemical and related industries

## Design

Straightforward design Inlets and outlets can be configured as required Dust-tight housing – high degree of sanitation Easy maintenance Low operating energy consumption All elements of food-grade materials or with special coating (FDA-approved)

Optional: Stainless steel version

## Safe operation

Personal safety according to EU, UL and CSA safety standards

#### Optional:

Zero-speed detector Overflow gate with personal protection switch Capacitive material backup detector

#### Additional elements

Inlet trough with progressive solid-flight screw for uniform storage bin discharge Bottom gates Overflow gate Intermediate outlet with slide gate Paddle-type screw for mixing

## Surface finish Standard:

Food-grade coat of paint, white NCS 1000 Multi-layer anti-corrosion coat of paint for outdoor applications

Optional:

Customized coat of paint













Semolina collection screw conveyors of special steel for maximum sanitation

Modular design!

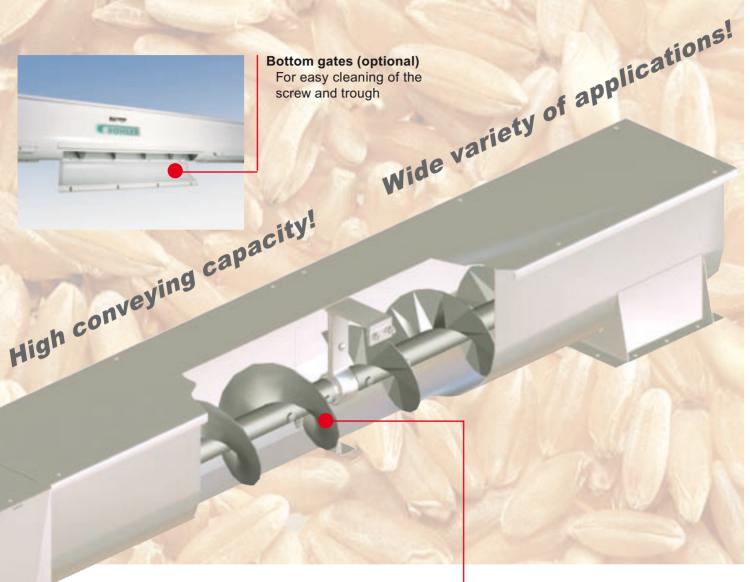


## Drive

Direct drive Maintenance-free Flexible coupling between the drive and the screw shaft

Optional: Chain drive (can be varied 360°)

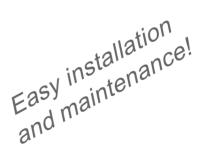
# Material conveying, distribution, collection, mixing or discharge











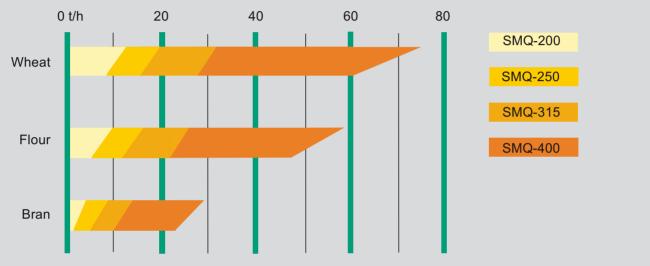
## Screw trough

Solid-flight screw for conveying Paddle-type screw for conveying and mixing Progressive solid-flight screw for uniform storage bin discharge Intermediate bearing with wear-resistant sliding bearing

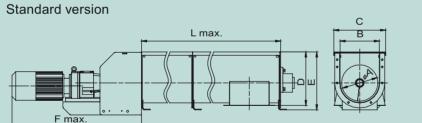
## Selection of trough screw conveyor

The correct selection and sizing of a trough screw conveyor requires precise knowledge of the material conveyed and of its behavior during conveying. In addition, the required conveying distance must be considered for specifying the trough screw conveyor. The maximum conveying capacity depends on the conveying distance and the material characteristics. For the specific selection and determination of all relevant values, please contact our sales and engineering department.

## The following chart shows approximate throughput ranges for materials with different conveying characteristics.



## Dimensions (mm)



Version with inlet trough



| Model   | A<br>Ø | В   | С   | D   | E   | F max. | G   | Н   | Li       | L max. |
|---------|--------|-----|-----|-----|-----|--------|-----|-----|----------|--------|
| SMQ-200 | 200    | 220 | 306 | 316 | 351 | 889    | 420 | 320 | 600–2100 | 21 m   |
| SMQ-250 | 250    | 270 | 356 | 369 | 399 | 977    | 490 | 390 | 600–2100 | 21 m   |
| SMQ-315 | 315    | 335 | 425 | 435 | 457 | 1049   | 570 | 470 | 600–2100 | 21 m   |
| SMQ-400 | 400    | 420 | 530 | 528 | 562 | 1153   | 700 | 600 | 600–2100 | 21 m   |

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