

Flour Milling

CAO Tubular Trough Screw Conveyors and Feeders



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Description ▼

CAO screw conveyors and feeders, in their standard configuration, consist of:

- gear reducer (direct, with chain, with belt or with coupling)
- inlet spout: round, square, rectangular or variable cross section
- cylindrical section casing in modular lengths made from mild steel
- outlet spout: round, square or rectangular
- flanged end bearing assembly at the opposite end of the power transmission

CAO screw conveyors and feeders are available in carbon steel with a food-grade powder-coated finish.

Function ▼

In flour mills CAO-type screw conveyors and feeders are used for conveying/feeding flour and/or by-products even if these materials show poor flowability and a tendency to pack under pressure.



Application ▼

The most typical application for CAO screw feeders is under bins or silos beneath the bin activator outlet.

As a conveyor CAO is used to collect material from UM-type screw feeders (see picture).

Benefits ▼

- ✓ **Easy to clean when equipped with drop-bottom trough;**
- ✓ **Quick and easy maintenance;**
- ✓ **Minimum material residue;**
- ✓ **Low risk of packing at discharge;**
- ✓ **Easy to integrate into the plant.**

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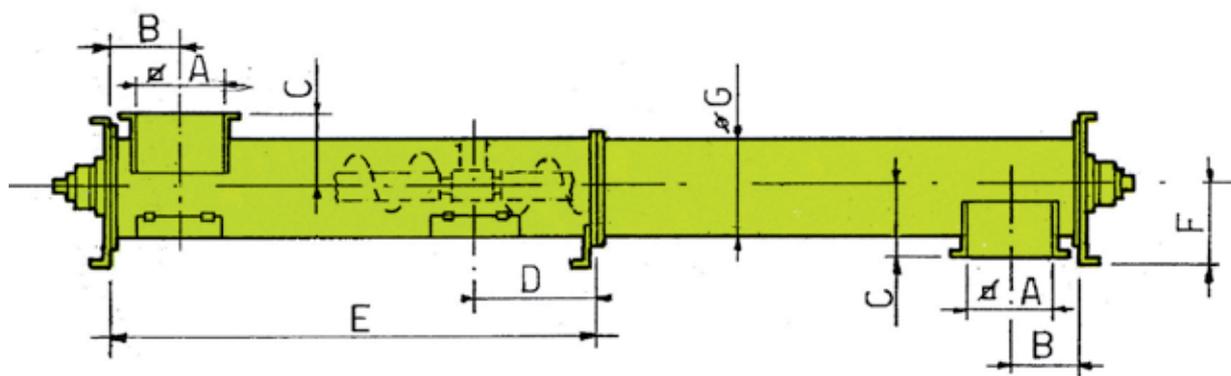
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Technical Features / Performance ▼

- ▶ Wide range from 100 to 500 mm;
- ▶ Throughput/feed rates: 10 ~ 100 m³/h;
- ▶ High-quality finish-grade;
- ▶ Gear reducer directly connected with the screw;
- ▶ Intermediate bearing with self-lubricating plastic bush;
- ▶ End bearing with self-lubricating bearings;
- ▶ Adjustable packing gland made of Teflon®;
- ▶ Reduced clearance between screw and trough;
- ▶ Wide range of accessories and options: drop-bottom trough, inspection hatches, rotation indicator bracket, coupling transmission, chain transmission, emergency stoppage device.

Overall Dimensions ▼



Screw Ø	A	B	C	D	E (max)	F	G
100	175	230	130	200	3,300	145	114
120	175	230	130	200	3,300	145	139
150	175	230	140	200	3,300	145	168
200	225	260	165	200	3,300	185	219
250	275	280	195	200	3,300	215	273
300	325	320	225	300	3,800	245	323
350	375	340	265	300	3,800	275	406
400	425	370	295	300	3,800	305	457
500	525	430	350	300	3,800	380	558

N.B.: Dimensions depending on transmission type B, C or D and may change size of drive installed.

This datasheet might not show the complete range but only the models most suitable for the application.