

Flour Milling

MSC Trough Screw Conveyors



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Description ▼

The MSC is a screw conveyor with a U-shaped trough. In its basic configuration it consists of:

- Direct drive, with offset chain transmission or belt transmission;
- Intermediate hanger bearings with self-lubricating bushes;
- Shaft couplings splined, or plines and bolted (with conditioned cereals), or bolted only (with stainless steel version);
- Flanged endearing assembly c/w long-life lubricated bearings opposite drive end;
- Adjustable Teflon® packing seals;
- Fabricated parts in powder-coated mild steel or 304 SS; Also available externally in 304 SS and internally in mild steel;
- ATEX-compliant.

Function ▼

| Conveying flours and dry or moist cereals.



Applications ▼

MSC Trough Screw Conveyors are used in flour mills in the following applications: cleaning, repose, milling, bagging and storage of flour and by-products (bran and middlings). In particular, they are used for:

- Conveying flour discharged from the plansifter;
- Conveying of flour discharged from bucket elevators for transfer to feed hoppers of bagging machines;
- Conveying of dry cereals from storage silos fed into the MSC by volumetric feeders or rotary valves;
- Conveying of moist cereals from repose silos fed into the MSC by volumetric feeders.

Benefits ▼

- ✓ Easy access for cleaning especially with drop-bottom trough version;
- ✓ Time-saving maintenance;
- ✓ Low material residue;
- ✓ No risk of material blockage at outlet;
- ✓ Highly reliable;
- ✓ Easy integration into the plant.



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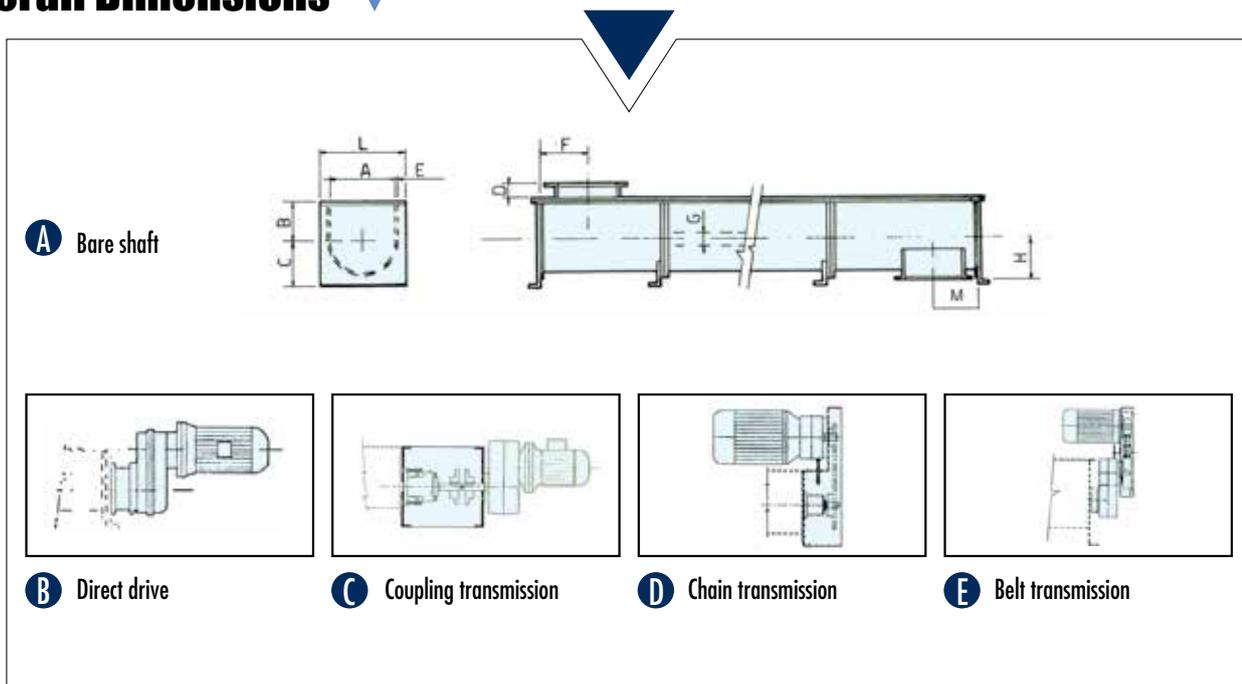
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Technical Features / Performance ▼

- ▶ Flight diameters from 150 to 400 mm;
- ▶ Throughput rates up to 100 m³/h;
- ▶ Up to 25 m long;
- ▶ Accurate finishing without steps or niches;
- ▶ Adjustable Teflon[®] shaft seals;
- ▶ Drop-bottom trough over entire length (on request);
- ▶ Drive unit directly connected to screw;
- ▶ End bearing assemblies with self-lubricating bearings;
- ▶ Wide range of accessories and options: inspection hatches, overflow hatches incl. safety grid, anti-stoppage membrane hatches, additional outlet spouts, trough feet, rotation control detectors, coupling or chain transmissions, emergency stoppage devices.

Overall Dimensions ▼



Ø Screw	A	B	C	D	E	F min.	G	H	L	M
150	175	115	145	60	2	88	60	130	265	170
200	225	135	185	60	2	113	60	165	315	195
250	275	160	215	60	2	138	60	195	365	220
300	325	195	245	60	3	163	114	225	435	260
350	375	235	275	60	3	188	114	255	485	290
400	425	270	405	60	3	213	114	285	540	340

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