Flour Milling

BU Tapered Multiple-Shaft Screw Feeders

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Description

BU are screw feeders with tapered screws and tapered trough. They come with 2, 3, 4, 5 or 6 screws in a single trough.
In the basic configuration they consist of:

- One or more direct-mounted drives each drive powering two screws;
- Gear transmission;
- Modular trough;
- Tapered screws;
- Flow intercepting diaphragm to avoid material flushing;
- No intermediate bearings;
- Splined shaft couplings;
- Flanged end bearing assemblies opposite drive end;
- Mild steel design.

Function

Feeding from silos containing flour, groats or by-products (bran, middlings).

Applications

BU Multiple-Shaft Screw Feeders are installed beneath flour, groat or by-product silos if bin activators cannot be used. BU feeders can be used instead of MMU-type Live Bin Bottoms. The advantage of BU over a live bin bottom is a more efficient extraction of the material as it eliminates the risk of jamming.

Benefits

- ✓ **Progressive material feeding in the open trough part (inlet) ensuring accurate material flow from the silo;**
- ✓ **Modular trough design enables easy access to internal components without the need of drop bottom troughs and/or inspection hatches;**
- ✓ **Reduced, easy and quick maintenance;**
- ✓ **Low material residue.**

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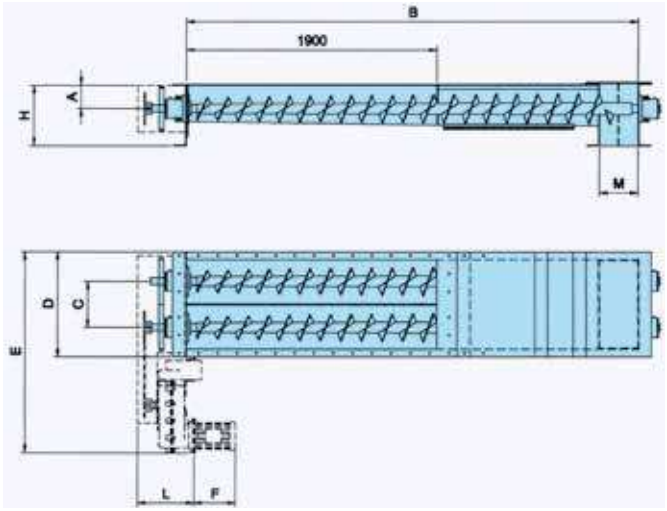
Technical Features / Performance

- Wide range from Ø 150 to 400 mm;
- Feed rates up to 200 m^3/h;
- Modular overall length in steps of 500 mm;
- Variable length open trough section depending on silo outlet dimensions;
- Fixed tapered screw and trough length;
- Accurate finishing (no steps or niches);
- Direct drive (directly connected with screw) with either direct power transmission, linear shaft coupling, offset chain transmission, or offset belt transmission;
- End bearing assemblies with long-life lubricated bearings and adjustable Teflon® seals;
- Wide range of accessories and options: overflow hatches with safety grid, tubular trough inserts, trough feet, rotation detectors, flow intercepting diaphragms.

Overall Dimensions



Screw Ø	Gear Reducer	A	B	C	D	E *	F *	H	L *	M	N	kg
BU 150	S 41	115	2,500	165	433	845	391	260	232	175	343	216
	S 43	115	2,500	165	433	903	510	260	232	175	343	236
BU 200	S 43	135	3,000	220	535	1,023	491	320	275	225	445	356
BU 250	S 43	160	3,000	270	635	1,128	372	375	275	275	545	416
	S 45	160	3,000	270	635	1,195	670	375	275	275	545	476
BU 300	S 45	195	3,000	315	750	1,305	662	440	283	325	640	540
	S 47	195	3,000	315	750	1,325	666	440	283	325	640	606
BU 350	S 45	235	3,000	380	865	1,425	662	510	283	375	755	760
	S 47	235	3,000	380	865	1,448	666	510	283	375	755	920
BU 400	S 47	270	3,500	425	965	1,550	685	575	317	425	850	1,077
BU 500	S 47	340	3,500	520	1,175	1,778	685	720	317	525	1,045	1,234

* Approx. dimensions

Dimensions in mm

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