



## *Auger Conveyor NSF-series*



Auger conveyor is also called material hoist. The vibrating screw feeder can lift a variety of powder materials. The material box and the auger are made of stainless steel. The vibration amplitude of each switch motor and vibration motor can be adjusted.

### **Product Description:**

The whole spiral can be easily disassembled, cleaned and automatically fed, and automatically stopped; the spiral and the soft connection between the barrel and the silo are easy to disassemble; the lower end of the barrel has a flap and a positive and negative switch for easy cleaning; the silo is equipped with a vibration motor, the material automatically enters the screw.

### **Working Principle:**

When the auger shaft rotates, due to the gravity of the material and the friction generated by the wall of the tank, the material can only move forward along the bottom of the conveyor under the pushing of the blade, and the situation seems to be that the nut can not be rotated. The rotating screw acts as a translational motion. The movement of the material in the intermediate bearing is based on the thrust of the material moving forward. Therefore, the transport of materials in the conveyor is completely a slip motion. In order to make the screw shaft in a more favorable tension state, the driving device and the discharge port are generally placed at the same end of the conveyor, and the feed port is placed as close as possible to the tail of the other end. The rotating spiral blade conveys the material and the force of the material not rotating together with the screw conveyor blade is the weight of the material itself and the frictional resistance of the screw conveyor casing to the material. The shape of the blade has a solid surface type, a belt surface type, a blade surface type and the like depending on the material to be conveyed. The screw shaft of the screw conveyor has a thrust bearing at the end of the material moving direction to give the axial reaction force of the spiral with the material. When the length of the machine is long, the intermediate hanging bearing should be added.

**Application:**

- Food powder
- Chicken powder
- Flour or other grain powder
- Medicine powder
- Chemical powder
- Granule materials

**Main Features:**

- 1) Power supply: 3PAC208-415V 50/60HZ
- 2) Charging angle: Standard 45 degree, 30-60 degree are also available
- 3) Charging Height: Standard 1.85M, 1~5 M could be designed and manufactured
- 4) Square hopper, with a vibrator, Round hopper could be designed and manufactured
- 5) Fully stainless steel structure, contact parts SS304

**Technical Data:**

Model	NSF-2	NSF-3	NSF-5	NSF-7	NSF-8	NSF-12
Lifting capacity	2m <sup>3</sup> /h	3m <sup>3</sup> /h	5m <sup>3</sup> /h	7m <sup>3</sup> /h	8m <sup>3</sup> /h	12m <sup>3</sup> /h
Diameter of pipe	φ102mm	φ114mm	φ141mm	φ159mm	φ168mm	φ219mm
Total power	0.58KW	0.78KW	1.53KW	2.23KW	2.23KW	3.03KW
Total weight	100KG	130KG	170KG	200KG	220KG	270KG
Hopper volume	100mm	200mm	200mm	200mm	200mm	200mm
Thickness of hopper	1.5mm	1.5mm	1.5mm	1.5mm	1.5mm	1.5mm
Thickness of pipe	2.0mm	2.0mm	2.0mm	3.0mm	3.0mm	3.0mm
Outer diameter of screw	φ88mm	φ100mm	φ126mm	φ141mm	φ150mm	φ200mm
Pitch	76mm	80mm	100mm	110mm	120mm	180mm
Thickness of pitch	2mm	2mm	2.5mm	2.5mm	2.5mm	3mm
Diameter of axis	φ32mm	φ32mm	φ42mm	φ48mm	φ48mm	φ57mm
Thickness of axis	3mm	3mm	4mm	4mm	4mm	4mm