

# FLEXIBLE SPIRAL CONVEYORS

**PRIMETECH** designs and manufactures transfer equipment by flexible mechanical feeders with steel or stainless spirals. These flexible spiral conveyor hopper loaders allow to transfer the conveyance of all kinds of bulk materials, granulates, any kind of plastic raw materials as well as powders and can be applied to various industrial fields.

A flexible spiral, made from mild steel or from stainless steel alternatively, driven by a three phase-motor, transport the material through a flexible tube from conveyor's intake to the outlet. The spiral is simple to install. Also shortening of conveyor is possible in a few minutes without any difficulty. So it can simply be fitted to customer's locations. Thanks to the flexibility. Obstacles can be passed too.

For different output ranges from 0.1 up to 15 m<sup>3</sup>/h and different materials, several types are available, which are different in our outer tube's and spiral's diameters.

The spiral conveyor is equipped with an intake which can be flanged under hopper, silo etc. It enables the conveyance of blends of different bulk goods with different bulk weights without any segregation during conveyance. Its serviceability, as well as the low energy demand make the spiral conveyor a very important and unrenounceable device in many factories in various different industrial fields.

Range of Application :  
Plastic Processing,  
Foodstuffs, Chemical and  
Pharmaceutical Industries



**BETTER** mixing technology  
with  
mixing sense



### GRAVIMETRIC DOSAGE IN HIGH SPEED MIXER

One after another, different products are dosed into the weighing hopper. The hopper rests on the 3 installed load cells and is provided with a quick opening butterfly valve at the outlet. The connection between the outlet pieces of the dosing conveyors as well as the mixer beyond the hopper occurs with flexible hoses or cloth for not affecting the weighing process. As soon as all components get into the weighed hopper and the mixer needs a new load, the valve will open to discharge the whole content of the weighing hopper.

#### Benefits of flexible spiral conveyor :

- Dustfree, product sensitive, segregation free, environmentally protective conveying
- Easy installation and shortening of conveying
- Low energy demand
- Good price / value rating
- Conveyance of mixture of several components without any segregation
- Maintenance-free
- Flexible plant design



Very high precision weighing cell

Model	Conveying tube in mm	Minimum radius in mm	Motor	Maximum output (dependent on material and bulk density)
FSC 30	40	1500	0.37-1.1 KW	0.3 m <sup>3</sup> /h
FSC 40	50	1500	1.1-1.5 KW	0.6 m <sup>3</sup> /h
FSC 50	63	1800	1.5-2.2 KW	2.5 m <sup>3</sup> /h
FSC 70	75	2300	2.2-3.7 KW	5.0 m <sup>3</sup> /h
FSC 80	90	2500	3.7-5.5 KW	8.0 m <sup>3</sup> /h
FSC 100	110	3500	5.5-7.5 KW	15.0 m <sup>3</sup> /h

The **PRIMETECH** PHM / PCM Heating / cooling mixer combinations are used in many fields for processing thermoplasts or elastomeres.

**PRIMETECH** PHM / PCM Heating / Cooling mixer combinations are used in processes, which require step by step heating and cooling of the product.

Specific requirements of products are frequently very diverse.

#### PRIMETECH designs and manufactures;

- High speed Mixer and Cooler up to 2000 kg / hour capacity
- Auto conveying system from store to extruders for PVC pipe plant
- Storage equipment, ground level or hanging hoppers
- De-dusting integrated units in case of too dusty products.



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