The compact batch vacuum push conveyor

Reliable technology for safe conveying of even those products that have poor flowing properties

Functional principle:
The conveyor is evacuated using the VACUFILL technique. The product is sucked and self-filled into the conveyor.
The vacuum conveying takes place gently as dense phase conveying at a relatively low conveying speed and high product load.
The pressure conveying takes place using the push conveying process at an operating pressure of up to 6 bar.

Your advantage:
- Gentle product handling and conveying with less wear
- Efficient vacuum operation for short to medium suction route
- Nearly unrestricted length of pressure conveying route
- Simple and accurate registration and balancing of the mass flow capacity
- Formation of weighted batches
- Connection of multiple suction routes allows batches comprising different components
- Loading multiple reception points by using diverter valves in the pressure conveying pipeline
- Direct feed into mixers, reactors and dissolvers is possible even in case of counterpressure
Operation sequence:

1st step:
Suck the product by the dense phase, fill the sender

2nd step:
Push conveying, empty the sender

The “product inlet” valve opens for sucking the bulk solid. The vacuum now sucks the bulk solid by the dense phase into the batch vacuum push conveyor. After reaching the top level or the desired weight, the “product inlet” valve and the vacuum valve close.

Compressed air or gas is fed by the electropneumatic installation in a controlled manner for further transport using the push conveying process.

After completing the discharge process, the batch vacuum push conveyor is evacuated again, and the sequence is repeated.