

For the smooth supply and discharge of powders that tend to cause the “bridge” phenomenon

POWDER CONTROLLER

The Powder Controller offered by Denka Consultant & Engineering Co., Ltd. (DCE) is a system that is attached to the bottom of a powder or granular material storage tank to facilitate supplying and discharging of materials that tend to cause the bridge phenomenon.

The Powder Controller is a material supply-discharge system with a function to break bridges, consisting of a Uras vibrator and a baffle board.

Features of Powder Controller

- (1) The supply/discharge amount of the material can be controlled quantitatively to a certain degree.
 - (2) The Powder Controller breaks the bridges to discharge a material constantly.
 - (3) The material is discharged evenly at a certain level so that first-in first-out control can be accomplished.
 - (4) Since this system is compact, it can be installed to the tank easily.
- The discharge behavior may differ depending on the properties of the powder.



Application Examples

1. As a discharge system for storage tanks for powder and granular materials such as cement, fine powder of silica stone, fly ash, soda ash, mirabilite, slaked lime, anhydrous gypsum, and carbon black.
2. As a feeder of powder and granular materials such as cement, fine powder of silica stone, fine powder of iron oxide, and fertilizer to a packer.
3. As a feeder of cement and fine powder of silica stone to a vibrating screen.

Structure and Features of Powder Controller

The Powder Controller consists of the baffle plate, which is vibrated with a vibrator. It is installed to the bottom of the storage tank. The bridges are broken by the vibration of the lower part of the Powder Controller in which the baffle plate is built in.

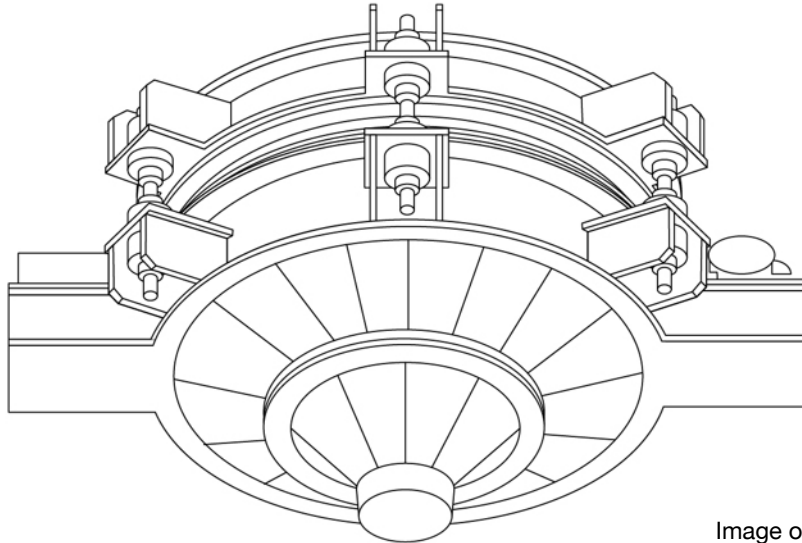


Image of Powder Controller

The bridges are broken by the circular motion of the lower part so that the material is discharged constantly. Depending on the properties of the powder, the discharge amount can be adjusted by changing the number of vibrations with an inverter.

- The discharge amount may differ depending on the properties of the powder. A precise discharge amount is not guaranteed.