

# **Polymix**

## **Big-Bag Systems**

**Arachem**

**Polymix** big-bag systems are designed both for reusable and disposable big-bags.

Combined with **Polymix** MULTISCREW FEEDER, a complete system for big-bag handling and accurate feeding of powder is offered, with the control over arch building.

Alternative equipment for lifting and supporting the big-bag can be incorporated.



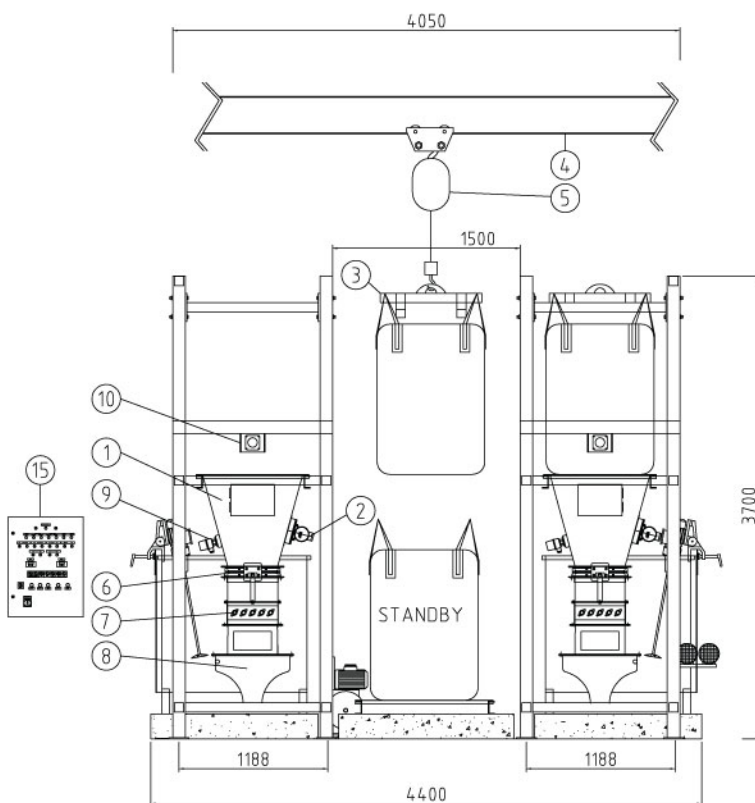
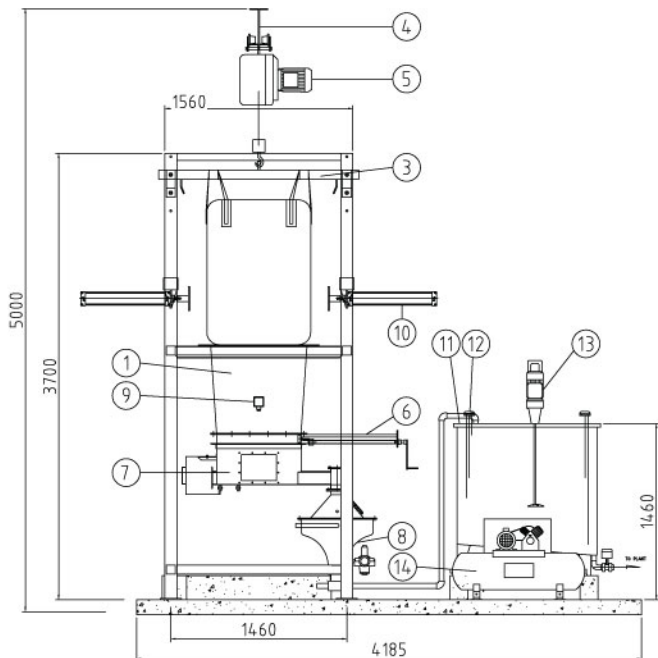
*Lime big bag systems complete with mixing tanks and control panel. Duty/standby unit.*

### **Advantages**

- **Polymix** can manufacture complete units for big-bag emptying and feeding of chemical powders.
- **Polymix** Multiscrew Feeder with a accessories that ensure high accuracy of feeding.
- Parabolic Cyclone Wetting Chamber that efficiently pre-mixes chemical powder; no fish-eye even for very hard to wet high molecular weight polymer.
- The equipment can be suitable for free flowing or arch forming materials.
- Flexible programming system that can be easily customized to suit individual customer requirements.
- The systems can be turnkey delivered and tested from our workshop.
- High quality assurance.

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## Big-Bag System Type BB500



1. Powder hopper. It is custom-designed to suit different bag sizes. Outlet flange 400 x 700mm.
2. Vibrator installed on the powder hopper for arch breaking.
3. Spider designed to lift big-bag with fork truck or with hook. The spider is located on the top of the upper stand.
4. Monorail for hoist which normally uses I-beam. (Optional)
5. A) Manual hoist consisting of chain maneuvered hoist as well as trolley. (Optional)  
B) Motor driven hoist as well as trolley. (Optional)
6. Shut-off valve or knife gate valve to isolate powder during maintenance.
7. **Polymix** Multiscrew feeder type 5SN for accurate powder feeding.
8. Parabolic Cyclone Wetting Chamber that produces deep vortex to pre-mix the powder into homogeneous mix. (patent pending)
9. Paddle level switch to indicate low powder level.
10. Shaker that enhances emptying of powder from the bag.
11. Transition tank for further mixing of solution.
12. Level sensor to indicate solution level. The control sequence depends on these signals too.
13. **LIGHTHIN MIXER** with aerodynamic impeller to provide efficient top to bottom mixing.
14. Air compressor that provides compressed air to energize the shaker. (Optional)
15. Control panel with necessary wiring and c/w PLC programme.