

# BlendMAX

## High-efficiency blending facility

### APPLICATIONS

- Complex blends requiring tight composition control
- Rapid-response primary and remedial cementing operations
- Temporary projects where fast mobilization and demobilization is critical

### BENEFITS

- Eliminates blending errors and rework through mechanical conveyance and mixing
- Dramatically reduces dust and waste by eliminating pneumatic blending technique
- Supports base-on-demand rapid deployment

### FEATURES

- Accurate, fully automated bulk and additive delivery systems
- Industry-leading blend rate
- Homogenizing discharge that prevents blend segregation
- Hybrid mechanical-pneumatic design capabilities

### Improve speed and accuracy of cement blending

At the core of each cementing job is the blend, which is designed and produced to exacting specifications. Blending efficiency and accuracy are critical, as delays and errors can result in undesirable outcomes ranging from nonproductive time to complete loss of the well.

Traditional bulk plants that employ the decades-old “batch, fluff, and blow” method use pressurized air to fluidize bulk cement. Then, pressure differentials transfer and mix bulk cement with dry additives. While effective at mixing and blending, these pneumatic processes can also lead to plugging and segregation if monitored, controlled, and maintained insufficiently. Even under optimal conditions, pneumatic bulk plants can produce unnecessary dust and delays.

### Use technologies proven by the concrete and cement manufacturing industry

The BlendMAX\* high-efficiency cement blending facility breaks convention by eliminating air from blend management. Based on the same proven mechanical bulk handling technologies that the concrete and cement manufacturing industry has used and perfected for years, BlendMAX facilities significantly improve efficiency and blend accuracy through automation. A minimum number of transfers is no longer relevant in a mechanically driven, high-efficiency BlendMAX facility.

Now, the time to blend is measured in minutes instead of hours. Our industry-first mechanical blender produces homogeneous field blends, even when the tightly metered blend components vary in particle size and density. This new generation of cement blending reduces time waiting on blend and improves success rate at the wellsite.



*BlendMAX high-efficiency blending facilities use proven technology from the cement manufacturing industry to create a revolutionary approach to oilfield cement management that streamlines operations and improves job outcomes.*

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## **Merge high-efficiency BlendMAX technology with existing infrastructure**

A modular design supports the rapid-deployment, base-on-demand concept. In areas where pneumatically driven bulking facilities are already in place, key components of the BlendMAX mechanically driven facilities can be incorporated into existing infrastructure. A hybrid blending facility capitalizes on existing technology and equipment while yielding significant improvements in operational accuracy and efficiency.

BlendMAX cement blending facilities have been completed or planned in most major unconventional plays, including the Utica, Monterey, Permian, and Bakken shales, where wells present some of the greatest cementing challenges.

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