



**VORTEX INDUSTRIAL TECHNOLOGY CO., LTD**

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## **New Ways to Improve Ribbon Blender Efficiency**



Ribbon blender – this versatile and highly ubiquitous mixing equipment are available from spice blends, beverage mixer, seasonings blends, drink mixes, and multivitamins to cosmetic powder, polymer blends, chemical additives, plastic, and agricultural powders, which is a reliable method for solid – solid blending is at the core of production and the ribbon blender is a popular choice due to its efficiency and economy.

A ribbon blender consists of a U – shaped horizontal shell and an agitator made up of inner and outer helical ribbons that are pitched to move material axially and radially. Ribbon blenders are offered with optional features like heating/cooling jacket, vacuum capability, interchangeable paddle agitator, lump-breakers, sanitary finish, and even wetted parts constructed from special alloys. More



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recently, new features have become available that are designed to maximize efficiency, blend consistency, and productivity. As your blender manufacturer about the following options:

1. Scrapers welded to the spokes and ribbons. Scrapers having a close tolerance (around 1/8 in.) to the end walls significantly reduce the amount of materials that might tend to pack in the blender's outermost areas. 'Radiused' trough corners further eliminate any dead spaces in the product zone.
2. Clear view cover and shaft guard. The multi-piece cover is equipped with multiple ports for ingredient additions, lights, spray system, venting, and vacuum, which significantly increase ease of use and worker safety. Operators can safely monitor the content of the blender and charge raw materials while the agitator are running. Without the need to stop agitation and open the covers at multiple intervals, cycle time is therefore optimized and unnecessary dusting issues are prevented.
3. Air-purged mechanical shaft seal. Special seal arrangements such as air-purged mechanical shaft seals eliminates the risk of product leakage, preventing premature bearing or drive failure and shaft wear.  
Air purging creates a higher pressure inside the seal cavity, creating an air barrier that helps keeps material inside the trough and adds to the life of the wearable parts of the seal.
4. Pneumatically-operated spherical dis valve. This type valve provides a large opening and minimizes dead space. Discharge connections can be customized to perfectly mate with your downstream material handling system.