



**VORTEX INDUSTRIAL TECHNOLOGY CO., LTD**

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## **Do you need a standard duty or heavy duty ribbon blender?**



Due to their popularity and many uses, ribbon blenders today are offered by many vendors big and small. It's important to choose a well-equipped blender suited to your specific application and built by a trusted manufacturer, because quality and performance vary widely from one OEM to another. Off-the-shelf models are a great solution to urgent needs, but it should be noted that customizing the multi-purpose ribbon blender to meet your own process requirements need not drastically add to the capital cost and lead time. The key is to define your objectives in detail so you confidently select a blender that is neither under-specified nor over-engineered. And the standard duty or heavy-duty is the top tip you should take consideration.

Before approaching vendors to request pricing, make sure to verify your product's actual bulk density as accurately as possible. While batch sizes are always spelled out in weight, blender models are assigned volume capacities. The desired batch volume (not batch weight) thus defines the size of the blender. Bulk density also determines horsepower and if a standard or heavy-duty model is required. Most standard blenders can typically handle bulk densities of about 0.6kg/L. Heavier-duty ribbon blenders are available for denser products. Thus, determining you need a standard duty or heavy-duty ribbon blender is the first tip top when you choosing a ribbon blender.

Consider the maximum and minimum batch quantities that a particular model



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can accommodate. Remember that optimal mixing in a ribbon blender requires a certain amount of product – at least 30-40% of the rated volumetric capacity. Working with smaller volumes, the blender may fail to generate adequate contact between the agitator and the product, and then products could not be completely blended. All in all, considering whether you need standard duty or heavy-duty ribbon blender before you buy it.