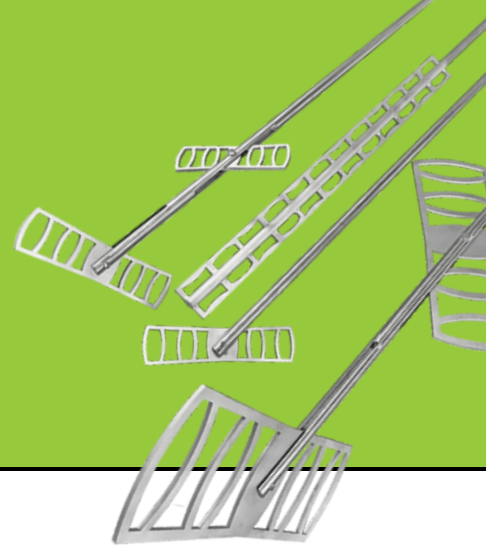




Why Mixer Sizing Matters More Than You Think



Industrial mixing starts with the right size and blade configuration

Whether you're blending powders, pastes, or liquids, a poorly sized mixer can lead to inconsistent results, slow processing, and equipment strain. Match your mixer to the material's viscosity, batch size, and environment for optimal performance.



The Right Fit for the Right Material

Thick slurries need torque and sturdy blades, while lighter powders require gentler agitation. Blade size—typically one-third the tank diameter—and positioning are critical for uniform results. Even small design tweaks in blade style and material can significantly improve flow patterns and reduce mix times.



Power That Matches Performance

Mixers aren't just about blades—they require the right combination of motor, torque, and control. Air motors are ideal for thick materials due to their dynamic torque and ability to operate under overload conditions, while electric motors provide steady performance for lighter, continuous mixing. Selecting the right motor and blade setup is essential, and incorporating a high-torque gearbox can further improve performance when mixing dense or heavy materials.



Built for Real-World Demands

In today's production environments, mixers need to do more than just blend—they must integrate seamlessly, adapt to various setups, and stand the test of time. Features like height-adjustable bases, hinged access for safety, and easier cleaning improve usability and efficiency. Durable blades that withstand heavy loads and abrasive materials help minimize maintenance and reduce downtime.

Final Take

Proper sizing and smart design choices lead to better efficiency and batch consistency. ASC Tornado helps you find the right solution for your material, goals, and project demands.

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