



LIGHT POWDER MIXING PROBLEM SOLVER

Myers Engineering, Inc., located in Southern California USA, has recently provided a tri-shaft mixing machine using a sweep and gate blade combination for a customer manufacturing a natural based dental product. This multi-shaft design handles many applications where the efficient wetting of finite powders determines the quality of the mix. Many variations of blade combinations allow for a wide variety of application successes.

When using the helix style blade, the material is drawn down for superior vertical batch flow while the sweep blade moves the mass around the perimeter zones.

Properly angled wipers serve a critical role clearing the product from the tank walls aiding in uniform heat transfer throughout the tank. Adding a high speed disperser blade creates the accelerated shear necessary to achieve uniform particle distribution. The results of this blade combination offer the user faster processing times with lower process temperatures. An added benefit when using the helix blade is final deaeration by running the helix in reverse. *Please see operating helical auger video link.*



Tri-shaft sweep, gate and disperser blades.



Tri -shaft with helical auger

www.myersmixer.com/video/helicalauger.wmv

Customers around the world are reporting that the Myers sweep blade design, working in conjunction with the open helix or gate blade, are providing a more homogeneous mix without dead zones. Product quality and profitability have increased with the use of these specialized Myers Engineering mixing systems. Contact Myers for an evaluation of your application needs.

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