

The **ORBIS MACHINERY, LLC** HMD series blender is a custom engineered blender configured to a specific application. Our blenders are constructed from high quality material and available from 1 to 500 cubic foot working capacities.



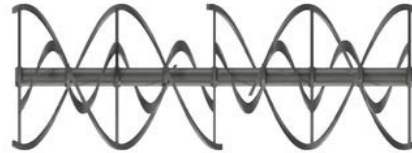
### DESIGN OPTIONS

- Stainless Construction
- Internal Vacuum
- ASME Code Jacket
- High Seed Delumper
- Shaft Mount or Direct Connect Drives
- Soft Start or Variable Frequency
- Drives Turn Key Controls
- Explosion-proof Motors
- Load Cells
- Spray Bar
- Auger Discharge
- Ball Valve or Flush Bottom Plug Valve
- Custom Covers
- C I P System
- Temperature Probes
- Safety Grates
- Stainless Packing Gland Housings
- Sanitary Construction

Three different types of agitation is available

### DOUBLE RIBBON AGITATOR:

The double ribbon agitator produces a homogenous blend of ingredients. Consisting of inner and outer ribbons, the outer ribbon moves the product in the opposite direction to the inner ribbon providing a uniform counter flow of product throughout the entire trough of the blender. Ribbons can be arranged for center bottom or end bottom discharge. Typical mixing times can range from 5-20 minutes for fill levels of 50% to 100% of the working capacity.



### PADDLE/RIBBON AGITATOR:

The paddle/ribbon agitator consists of an inner ribbon and outer paddles. This design is suitable for delicate type products. The blending principals are the same as the ribbon agitator but the outer paddles produce less heat energy and friction than a continuous outer ribbon making this option applicable for heat sensitive products as well.



### PADDLE AGITATOR:

The paddle agitator is best suited for stirring or blending ingredients of equal size and density. Paddles are arranged to lift or scoop the product producing far less shear than a ribbon type agitator. This makes the paddle blender an ideal choice for friable materials. Fill levels can vary from 20% to 100% of the working capacity of the blender.

