

ViscoMAX Dissolvers



POWER

Dual or triple motor designs are power matched to your process requirements so you are assured of adequate power availability and efficiency.

LIFT OPTIONS

Tank-mount designs, as well as single and dual hydraulic lifts, are available as either air or electric powered for easy tank change.

DRIVE OPTIONS

Variable speed drives are available in either mechanical variable, hydraulic or variable frequency motor drives. Remote drive controls are available for all three options.

MIXING TOOLS

Custom specific to fit any requirements, these include sweep anchor with optional wall and bottom scraper, COWLES Hi-Shear impellers, augers, gate blades, butterfly mixers, rotor-stator and axial turbines.

Product Specifications

Model:	VML-3	VML-10	VML-50	VML-100	VML-250	VML-350	VML-500	VML-1000
Batch ¹	3	10	50	100	250	350	500	1000
HP - High Speed/Low Speed	3/3	5/5	15/10	30/20	40/25	50/30	75/30	100/75
Electric/Hydraulic Lift	no	no	yes	yes	yes	yes	yes	yes

¹Batch size in U.S. Gallons

Mix One Quart to Two Thousand Gallons

MorehouseCowles will build a ViscoMAX multi-shaft dissolver to fit any application or specification. ViscoMAX comes with as small as a one-quart capacity to cost-efficiently test batches in the lab.

MorehouseCowles will also design a ViscoMAX for pilot and full-production runs to deliver the product uniformity and batch circulation required—even at viscosities exceeding 4,000,000 centipoises (cps).

Options

- Third shaft
- Vacuum powder loading tube
- Temperature controls
- #4 Finished wetted parts
- #8 Finished wetted parts
- Spare tanks
- Ram discharge press
- Cooling and heating jackets
- Mechanical variable drives

Product Uniformity Batch after Batch

Every ViscoMAX features at least two shafts to disperse material evenly throughout each batch. A high-speed impeller swirls ingredients throughout the tank while a second, low-speed anchor blade wipes the vessel walls, pushing product continuously back into the high-shear zones for thorough mixing.

A third, optional shaft can be added to control heat buildup. This intermediate speed shaft works especially well when mixing product with viscosities of up to 4 million centipoises.

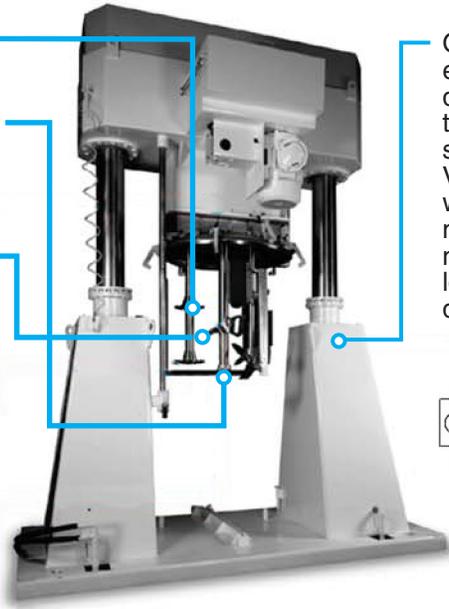
50,000 CPS TO 4,000,000 ViscoMAX Dissolvers

50 years of dissolver experience assures your satisfaction!

High-speed impeller(s) disperses formula components.

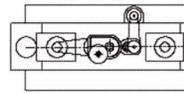
Low-speed sweep blade wipes tank walls and pushes product back to the dispersion area for thorough dispersion and mixing.

Optional third blade, (intermediate blade) mixes product 50% faster than most two-shaft models. This eliminates dead and hot spots in heat or shear-sensitive products. Use all three blades simultaneously, or turn off the high-speed impeller and use the sweep and third shaft only for proper mixing conditions. Third shaft comes in standard and custom styles.

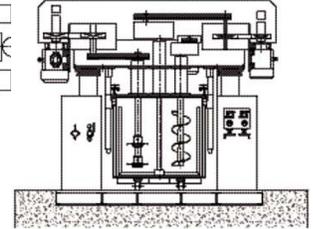


Quality shines through every part and every weld. No one builds a multi-shaft dissolver with more attention to detail than MorehouseCowles. We use more steel than most manufacturers to give ViscoMAX it's regain construction. Our welds are strong and our parts are finely machined and fitted so your ViscoMAX not only performs exceptionally, but looks exceptional as it produces one quart to two thousand gallons at a time.

Top View



Front View



Mix your batches quickly, easily and smoothly with the ViscoMAX full-production multi-shaft dissolver.

Easy discharge system gives you more product to sell.

Your heavy, viscous products will discharge effortlessly from the tank when you activate the MorehouseCowles hydraulic Ram Discharge System. With a powerful push, your product is forced out of the dispersion tank so it takes less labor and time to empty and clean your equipment. You get more product to sell, less to throw away.



We originated dissolver technology more than 50 years ago, so our application engineers offer the knowledge and experience you need to match shaft speed, horse power, tank, impeller and sweep blade design to your product mix.