

MorehouseCowles

Processing technology and equipment



Setting science in motion
to create a better world



WE ARE AVANTOR®

Avantor® is a leading global provider of mission-critical products and services to customers in the biopharma, healthcare, education & government, and advanced technologies & applied materials industries. Our portfolio is used in virtually every stage of the most important research, development and production activities in the industries we serve.

We focus on the things that matter to you most, providing exceptional collaboration, customization and convenience to help ensure your success.

One of our greatest strengths comes from having a global infrastructure that is strategically located to support the needs of our customers. Our global footprint enables us to serve more than 225,000 customer locations and gives us extensive access to research laboratories and scientists in more than 180 countries.



Providing the most reliable dissolvers, mixers and mills since 1925

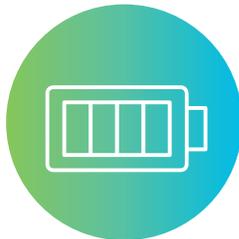
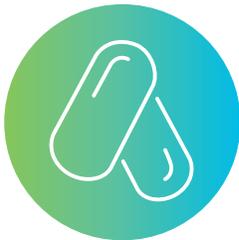
MOREHOUSECOWLES®

MorehouseCowles, an Avantor brand, has a long history of design and manufacturing - which has established us as a world leader in dissolver technology, mixers and milling equipment, with proven service built on tradition and customer focus.

We forge enduring customer relationships and our commitment to our customers extends from designing custom-tailored processing equipment to machining replacement parts for legacy machinery. We'll help you create a production system that meets all your processing

needs. Innovation at MorehouseCowles runs deep – since 1925 we've built our brand on reliability and service in the following industries:

- Paints and coatings
- Pharmaceutical
- Adhesives and sealants
- Food
- Fine chemicals
- Inks
- Cosmetics and personal care
- Lithium ion
- Magnetic media





Processing technology and equipment

MorehouseCowles standard machines are specifically designed to provide customers with high production rates, low maintenance costs and exceptional product quality. Our machines are manufactured in the U.S. with the highest standards for quality and durability.

The MorehouseCowles line of processing equipment includes:

MIXERS/DISSOLVERS

- Single Shaft
- ViscoMAX™ Multi-Shaft

MILLS

- Stone Mills
- Vertical Media Mills
- Horizontal Media Mills



Mixers & dissolvers

The MorehouseCowles line of mixers and dissolvers are designed for liquid-to-liquid or dry-to-liquid mixing, for any production needs from small scale or prototype laboratory units to full-scale manufacturing units.

SINGLE-SHAFT DISSOLVERS

Our single-shaft dissolvers provide ultimate dispersion, de-agglomeration, dissolving and disintegration in both high- and low-speed models.

VISCOMAX MULTI-SHAFT MIXERS

ViscoMAX multi-shaft mixers are designed for dissolving extremely high viscosity materials of up to 4,000,000 cP.



Mills

MorehouseCowles mills break down a product or mixture to very small particle sizes. They can be used as a secondary process after dispersing or as a primary processing method for solid-to-paste or liquid-to-liquid grinding.

MorehouseCowles stone mills offer grinding technology for dry-to-liquid processing where 100% of the material passes through the milling surfaces for superior consistency and performance.

STONE MILLS

MorehouseCowles stone mills offer grinding technology for dry-to-liquid processing where 100% of the material passes through the milling surfaces for superior consistency and performance.

VERTICAL MEDIA MILLS

Our vertical media mills provide continuous wet milling for aqueous and various solvent slurries of all viscosities. They efficiently and uniformly de-agglomerate to a specific size or distribution.

HORIZONTAL MEDIA MILLS

The Zinger™ horizontal media mills are also designed for liquid de-agglomeration with higher efficiency for faster processing times. The vaned rotors provide the most shear energy and the smallest particle sizes.



Lab scale equipment, customization & safety

LAB SCALE EQUIPMENT

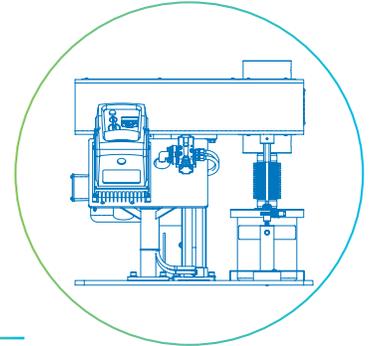
For formulation development or small scale production batches, MorehouseCowles offers scaled down versions of our standard dissolvers, mixers and mills, ideal for a laboratory setting.

CUSTOM DESIGNS

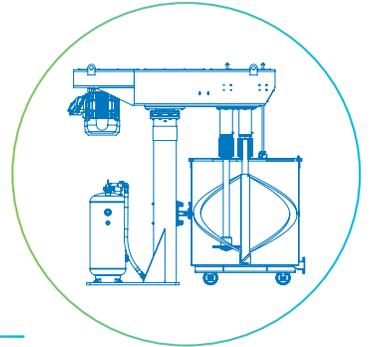
Our innovative engineering support teams are available to closely collaborate with you to develop and design custom equipment and technology. From special construction materials or coatings/finishes to electrical specifications and automated controls, customization can come in many forms to meet the needs of our customers.

FOCUS ON SAFETY

Safety mechanisms are built into MorehouseCowles equipment to ensure operators are able to run the machine safely. From blade guards for easy handling of impellers to safe guards such as limit switches that keep the machine from running in potentially unsafe situations, our machines are designed with a focus on safety.



Lab scale equipment



Custom designs



Focus on safety

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