



# PSM “Basket Type” Submersible Media Mill

The PSM Submersible Mill is a batch type basket mill, with a unique hybrid design which sets it apart from other single shaft “basket” type mills. The PSM Mill incorporates a Milling Chamber with independently powered variable speed mixing shafts, which provides exceptional flexibility in production. Due to independent variable speed mixing shafts, the PSM can process a wide range of batch sizes and product viscosity. The mixing shafts provide even circulation throughout the batch tank to insure uniform dispersion and consistent product temperature of the entire tank contents. The power and speed of the milling chamber media agitator mechanism is controlled separately from the mixers. This means that the “milling action” is adjusted independently of the “mixing action”, which allows enhanced automated processing with fewer upset conditions, and minimal operator interface.

The PSM Submersible Mill is suitable for efficient production of small batches where rapid color changeover is required. It is easy to clean, eliminating pumps, product plumbing and hoses, and contains no mechanical seals. Little routine maintenance is required with the PSM, which contains few moving parts. The hybrid design combines Mixing and Milling into one device, which makes the PSM a better fit in many applications than a traditional horizontal media mill.

## Standard Features:

- Closed bottom on media vessel eliminates bypassing and inconsistent dispersion.
- Separate variable speed drives provide exceptional flexibility in dispersion rates. Mixing blades provide even circulation, ensure uniform dispersion.
- Because material flow is created by vortex action and centrifugal force, media overflow into the batch is eliminated.
- Unit available with oversized tanks.
- Operating speed may be controlled manually or through an automated process controller.
- The side walls and bottom of the processing tank are jacketed along with the top of the milling chamber for efficient control of product temperature.
- Portable tank with non-sparking casters provides mobility for packaging or cleaning.
- Clean-up and product changeover are accomplished in less than 30 minutes on most products.

## Benefits:

- One-step processing, easy clean-up and better flow control.
- Batch and tank size flexibility.
- Independently controlled mixers and milling shaft provide:
  - Consistent temperature control
  - Uniform particle size
  - Wider range of product viscosities
- Ideal for emulsifying and processing hard to wet materials. Can make premix directly from most granular or beaded material.

## Available Options:

- Navigator Monitoring and Process Control System.
- Vacuum construction.
- Alternate materials.

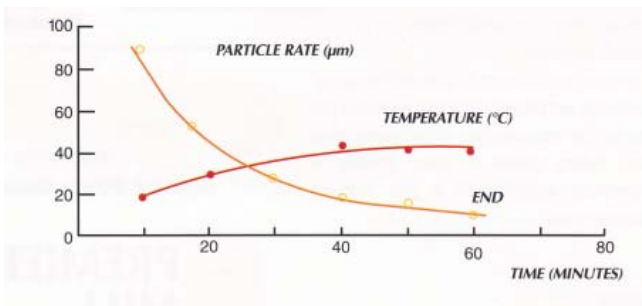


## Premier Submersible Mill Models and Specifications

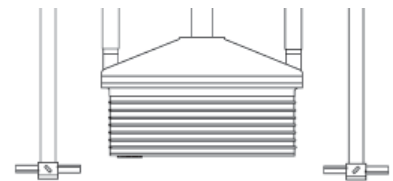
SIZE	Length Inches	Width Inches	Height Lowered Inches	Height Raised Inches	Clearance Inches	Weight Pounds
PSM-7-11	37"	43"	22"	39"	16.7"	900
PSDM-55	57"	46"	64"	105"	47"	1,800
PSM-25-40	61"	30"	59"	72"	31"	2,500
PSM-60-90	65"	30"	60"	85"	38"	3,000
PSM-115-180	72"	31"	67"	93"	41"	4,000
PSM-400-620	92"	40"	84"	124"	62"	4,500
PSM-700-1100	125"	47"	98"	147"	64"	5,000
PSM-2650-4200	155"	60"	145"	215"	99"	11,500

Dimensions and weights are estimated and do not include tank.

### Premier Submersible Mill Sample Milling Times



### PSM – Basket and Agitators



### PSM – Basket Cutaway View

SPX<sup>®</sup>

WHERE IDEAS MEET INDUSTRY

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For more information about our worldwide locations, approvals, certifications, and local representatives, please visit [www.premiermill.com](http://www.premiermill.com).

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