

SuperFLX Horizontal Media Mill



SuperFLX - The Most Flexible Mill Available.

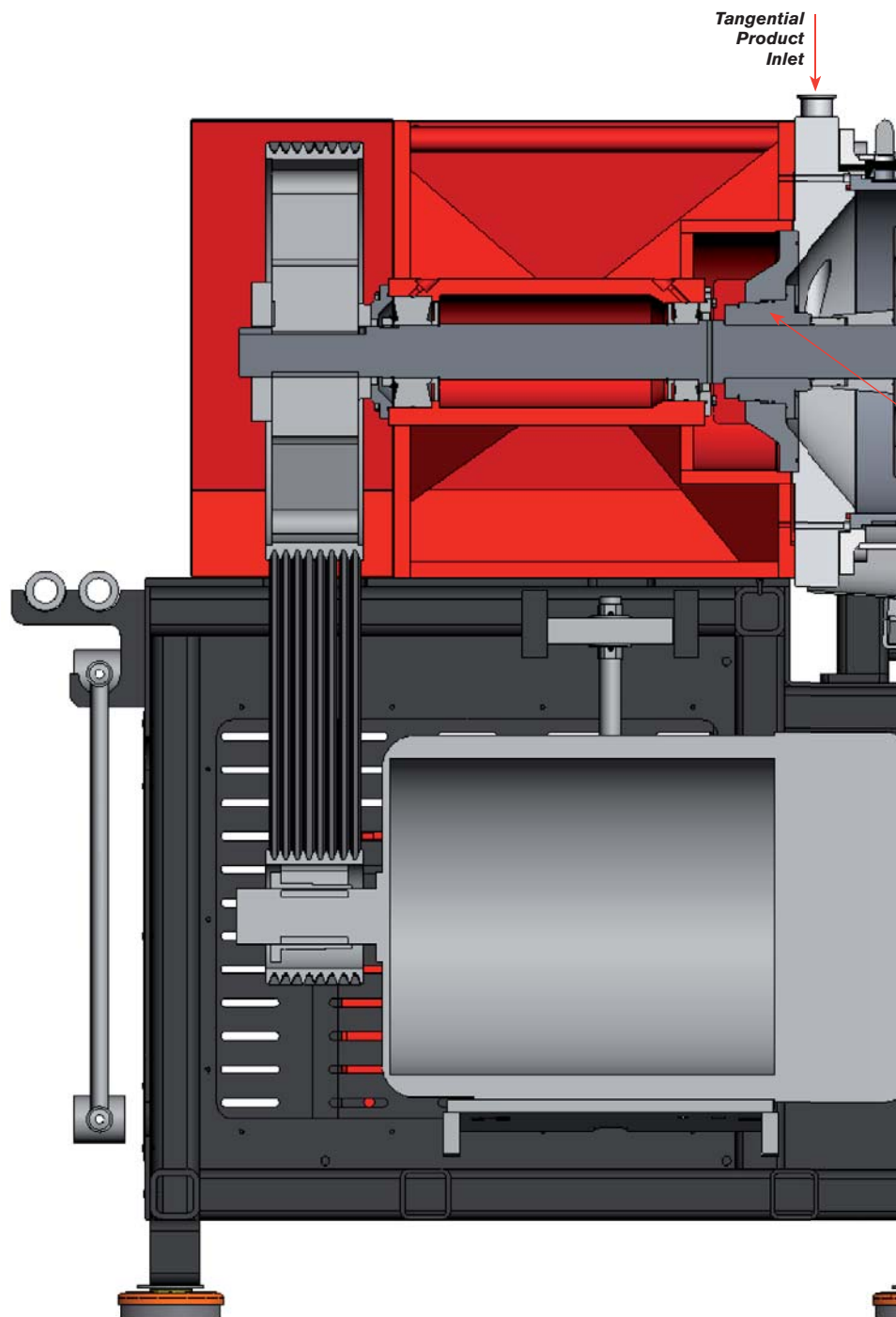
The Premier Mill SuperFLX Mill offers the features and flexibility your demanding sub-micron and nano milling process requires. This single machine can be transformed to process single-pass, multi-pass, high flow recirculation, and low and high viscosity materials with a few simple changes in a compact yet serviceable design.

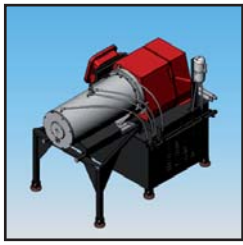
Features & Benefits:

- Modular frame allowing 360 degree access through large panels for efficient maintenance and serviceability.
- Open carriage design for access to chamber and allowing ample space for media cart.
- Grinding media containment and management.
 - Media discharge chute to direct media during grinding shell removal.
 - Optional Media Dump/Transport Cart available for quick unloading grinding media.
- Grinding Chamber.
 - Reversible inner shell to extend chamber life.
 - Spiral cooling for the best efficiency.
 - Dual Zone available.
 - Center Media fill port for quick media filling.
- Operator interface operating controls.
 - User friendly.
 - Multiple safety interlocks with built in diagnostics.
 - Optional Navigator processor control system.

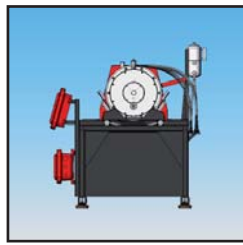
Reliability, Efficiency and Value:

- Process repeatability.
- Accurate scale up from Lab and Pilot units.
- Milling Disc combinations and types for efficient dispersion and particle size reduction.
- Media screen separator configurations for complete range of grinding media requirements.
- Readily available parts and service.

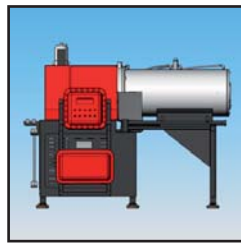




ISO View

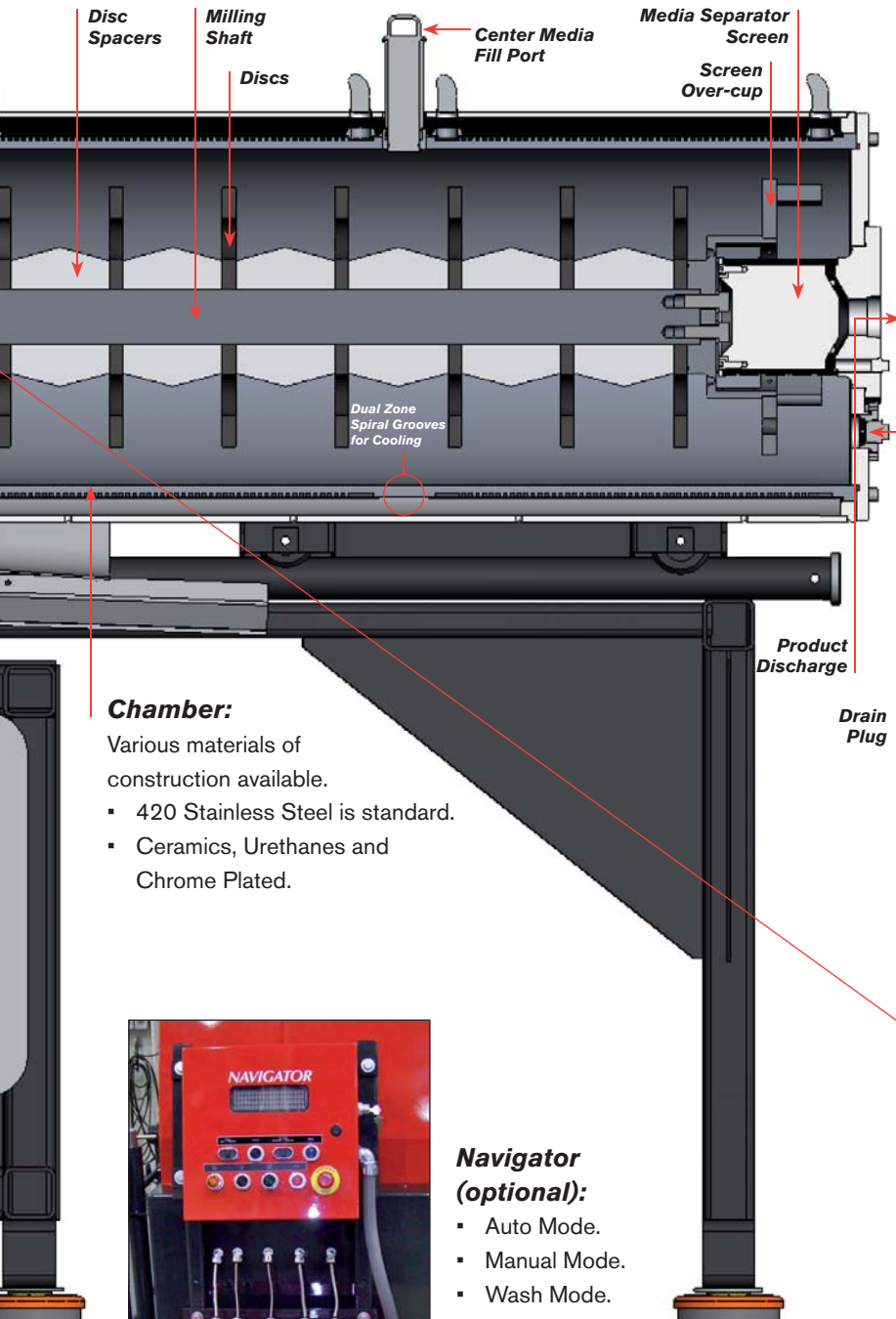


Front View



Side View

Typical Product Flow Layout



Chamber:

- Various materials of construction available.
 - 420 Stainless Steel is standard.
 - Ceramics, Urethanes and Chrome Plated.



Navigator (optional):

- Auto Mode.
- Manual Mode.
- Wash Mode.

Chamber Flow Patterns:

- Single Pass.
- High Flow Recirculation.
- Multi Pass.
- Custom.

Applications:

- Dispersions.
 - Color concentrates for paints, inks, automotive, industrial, plastics and other industries.
- Grinding Suspended Solids.
 - Agriculture Chemicals, Pharmaceuticals, Food, Minerals and other industries.
- Low to high viscosity materials.
- Fine to large particles and agglomerates.

Pump Options:

- Gear Pump with Inverter Drive is standard.
- Pump assemblies are skid mounted for installation near the mill.
- Progressive Cavity, Peristaltic, Rotary Lobe and other pump options are available.



Mechanical Seal:

- Cartridge type double mechanical seal is standard.
- Abrasive duty.
- Kalrez or equivalent is standard, other elastomers available.
- Cartridge design for easy removal and installation.
- Internal coolant pumping ring for extended seal life. (No external pump and plumbing for seal fluid cooling is required.)

Reference Chart of Chamber Volume and Average Flow Rates for Various Mill Sizes

Model Number	Nominal Chamber Volume (Liters)	Discrete Pass Flow Range	High Flow Recirculation Flow Range	Media Size Range	Motor HP (standard)
SM3-1.5	1.5	1 to 8 GPH	10 to 24 GPH	0.1 - 2.0mm	10
SM3-5	5	3 to 24 GPH	30 to 90 GPH	0.1 - 2.0mm	15
SM3-15	15	10 to 80 GPH	80 to 240 GPH	0.1 - 2.0mm	25
SM3-20	20	15 to 150 GPH	80 to 240 GPH	0.1 - 2.0mm	30
SM3-30	30	20 to 200 GPH	120 to 360 GPH	0.1 - 3.0mm	40
SM3-45	45	30 to 300 GPH	180 to 540 GPH	0.1 - 3.0mm	50
SM3-60	60	40 to 400 GPH	240 to 720 GPH	0.1 - 3.0mm	60
SM3-90	90	60 to 600 GPH	360 to 900 GPH	0.1 - 3.0mm	75
SM3-120	120	75 to 750 GPH	400 to 1200 GPH	0.1 - 3.0mm	100
SM3-200	200	100 to 1000 GPH	500 to 1500 GPH	0.1 - 3.0mm	125
SM3-230M	230	100 to 1000 GPH	N/A	0.1 - 3.0mm	150
SM3-Q1	1	N/A	10 to 30 GPH	0.1 - 2.0mm	10
SM3-Q10	10	N/A	100 to 300 GPH	0.1 - 2.0mm	50
SM3-Q25	25	N/A	250 to 750 GPH	0.1 - 3.0mm	75

Milling Disc Options:

- Abrasion Resistant Premalloy metal alloy is standard.
- Non-metallic options include Ceramic, Urethane coated, Nylon and UHMS-PE.
- Disc types available:
 - Standard disc with media and product directing cutouts for the most efficient attrition and dispersion.
 - Patented AP-4* and AP-6* to use in combination with standard disc for optimal mill performance and repeatable product quality. *Patent Number: 6,808,136 B2



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For more information about our worldwide locations, approvals, certifications, and local representatives, please visit www.premiermill.com.

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