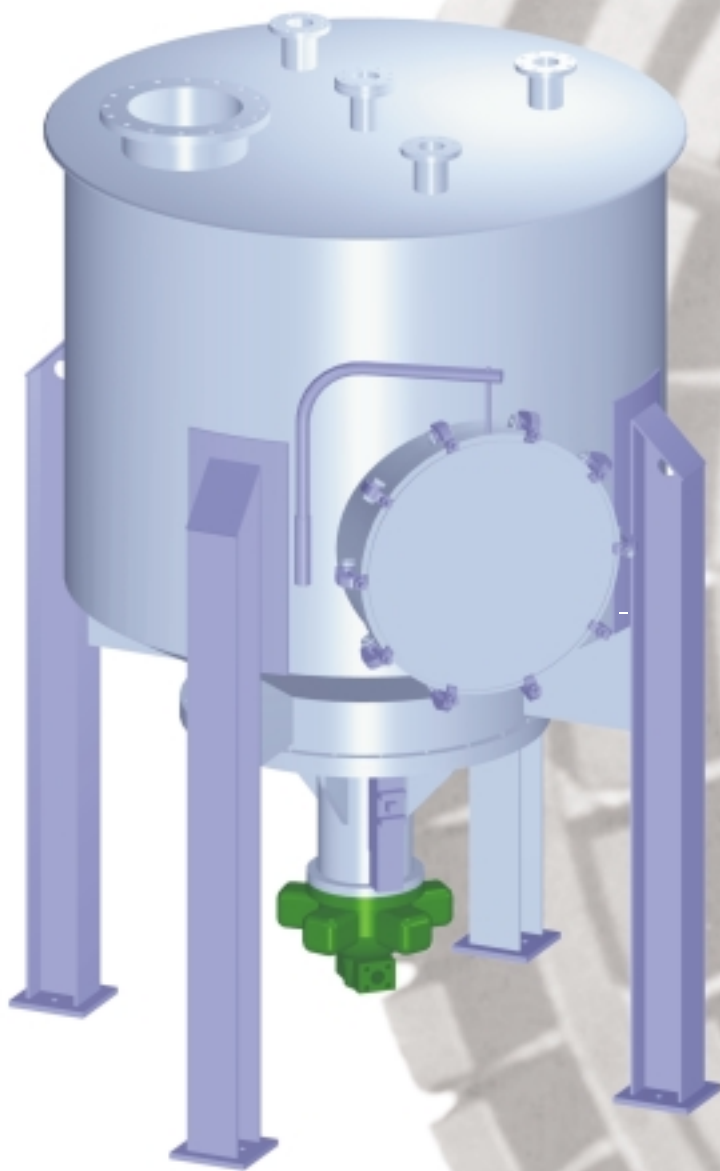


MULTISHEAR[®] SUPER BLENDER

MODEL 1500

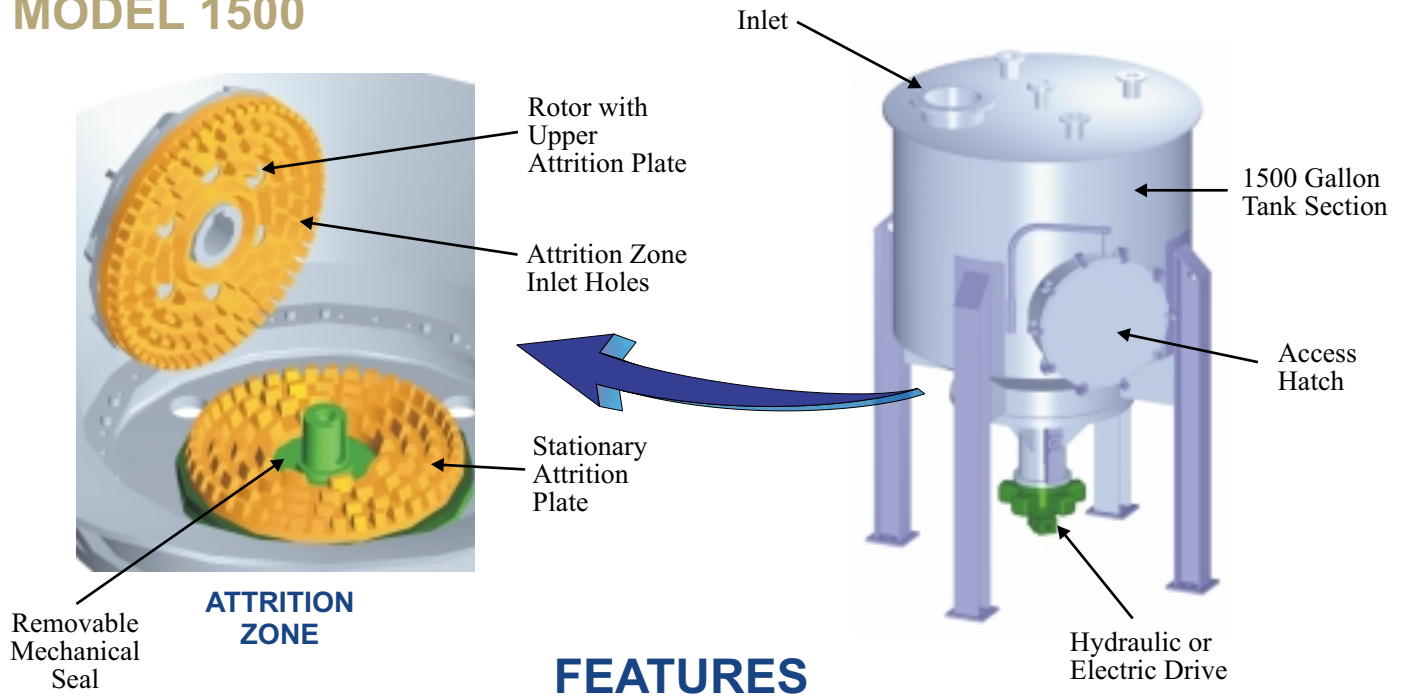
Patented



MULTISHEAR[®]
CORPORATION

SPECIFICATIONS

MODEL 1500



FEATURES

- Capacity to process 5 to 15 tons per hour, depending upon the type of solid processed. This includes, drums, pallets, waste paper, drill cuttings, shred tires, municipal waste, and many others.
- The modular unit can be configured a variety of ways depending upon the application.
- The SUPER BLENDER rotor is equipped with an attrition zone which grinds solids into a fine suspension while providing excellent circulation and turnover in the vessel. The rotor is hard surfaced to provide maximum abrasion resistance. Attrition zone teeth can be made of a variety of alloys for maximum wear resistance. They are easily replaced. The attrition zone is self cleaning and it will not clog.
- Attrition zone gap can be remotely controlled to yield any particle size desired. The unit operates in both directions of rotation thereby doubling the wear life of the attrition zone and rotor components.
- The rotor is typically driven by a 200 HP variable speed electric motor. Alternate 300 HP hydraulic drive can be provided for the shredding rotor option.
- The super blender features heavy construction throughout to insure long term performance in tough applications such as waste processing in the environmental industry.

MECHANICAL SEAL CARTRIDGE

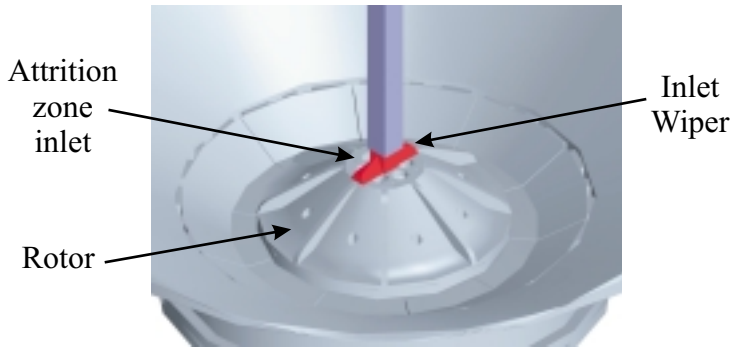


MULTISHEAR SUPER BLENDERS utilize double mechanical seals that are housed in a patented stainless steel cartridge that is easily removed and replaced. The seal cartridge also holds the shaft thrust bearing in place as a means of minimizing shaft length and overhang. The resulting configuration is extremely rigid with virtually no shaft deflection or run out that typically plagues other size reduction equipment. In addition, the SUPERBLENDER equipment is furnished with a seal circulation system which circulates, filters, pressurizes, and cools the seal barrier fluid to provide ideal conditions for an extended seal life.

CONFIGURATION OPTIONS

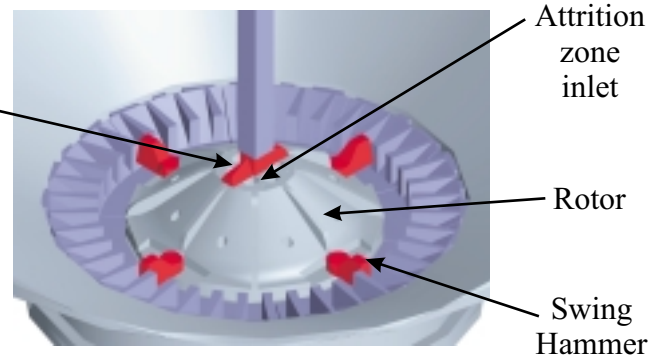
MODEL 1500

PULPING ROTOR



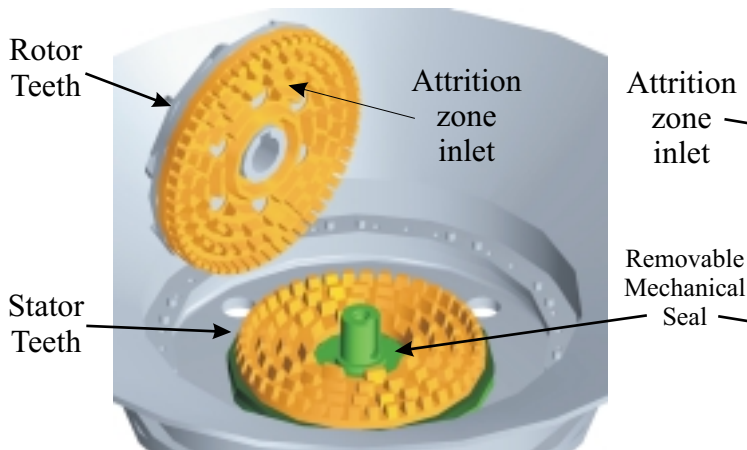
The pulping rotor breaks up material through hydraulic action and agitation without excessive shearing of the slurried solids. This preserves the maximum fiber length for fibrous materials such as paper pulp.

SHREDDING ROTOR



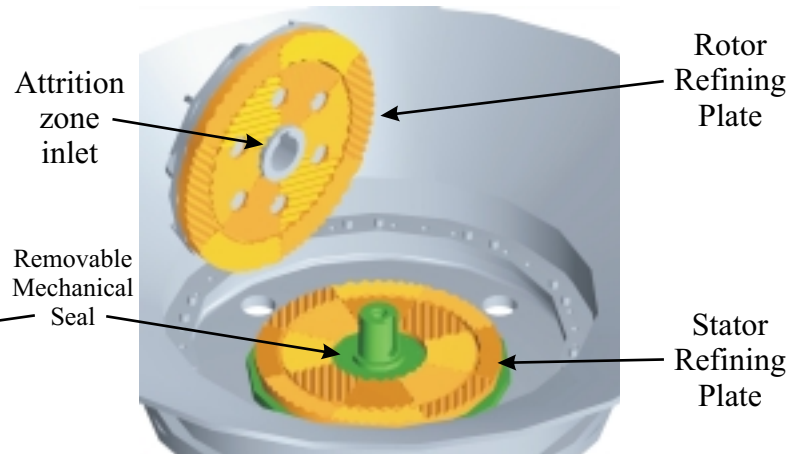
The shredding rotor is equipped with 4 swing hammers that engage stationary shear bars positioned around the outside of the rotor. With this configuration, the rotor is capable of reducing coarse or flexible solids without the need for pre-shredding them.

GRINDING ZONE



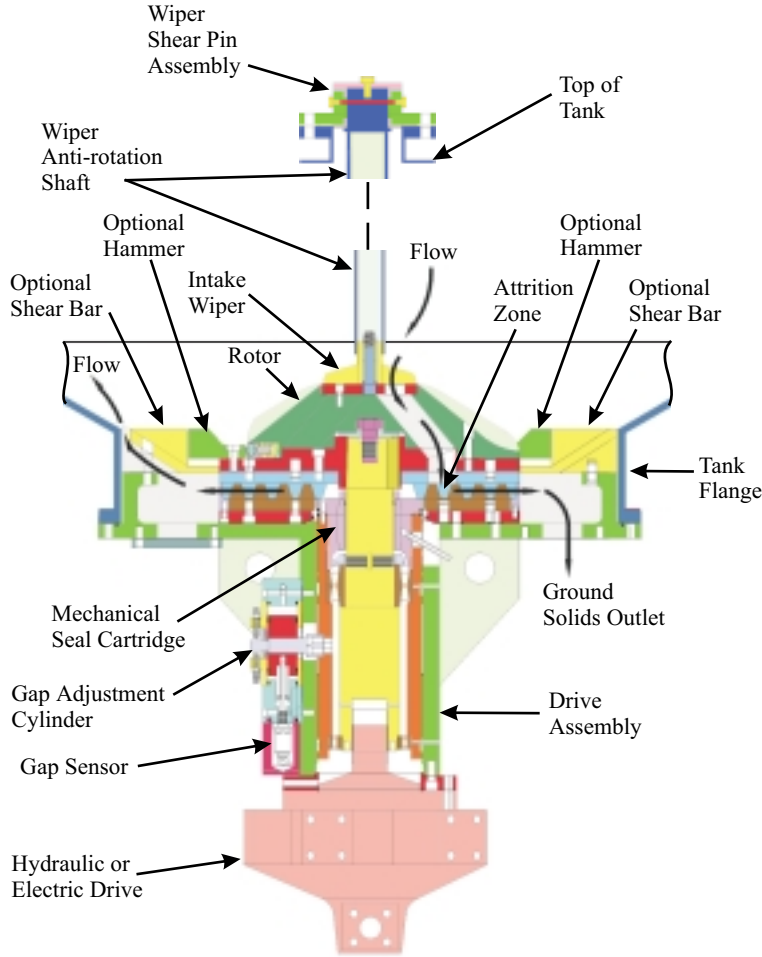
The attrition zone beneath the rotor can be supplied with intermeshing teeth which shear solids to a consistently small particle size. Even flexible material such as rubber and plastic is reduced by this configuration.

REFINING ZONE



The pulping rotor can be furnished with a refining stator and rotor for the consistent break-up of fiber bundles into individual fiber strands without undue shearing of the fiber length. This configuration eliminates the need for a separate refiner.

CROSS-SECTION AND PRINCIPLE OF OPERATION



During operation, the SUPER BLENDER tank is filled with liquid. Afterwards, solids are added to the tank where they are reduced by the rotor action while simultaneously being dispersed in the liquid. The solids are ingested into the attrition zone intake when they are 1" or smaller. The intake wiper insures that the intake structure remains clear at all times. The solid slurry is then passed through the attrition zone where it is further reduced. The ground slurry is then discharged into the collection ring surrounding the attrition zone. A portion of the ground slurry is continuously extracted from the outlet port at the bottom of the collection ring, but the majority of the flow of ground slurry is routed back into the SUPER BLENDER tank. This feature insures that only ground slurry leaves the tank even though more raw solids and liquids are continuously added to the tank for processing. A gap adjustment system controls the position of the SUPER BLENDER rotor so that the operator has complete control over the particle size produced.

TYPICAL DIMENSIONS



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