

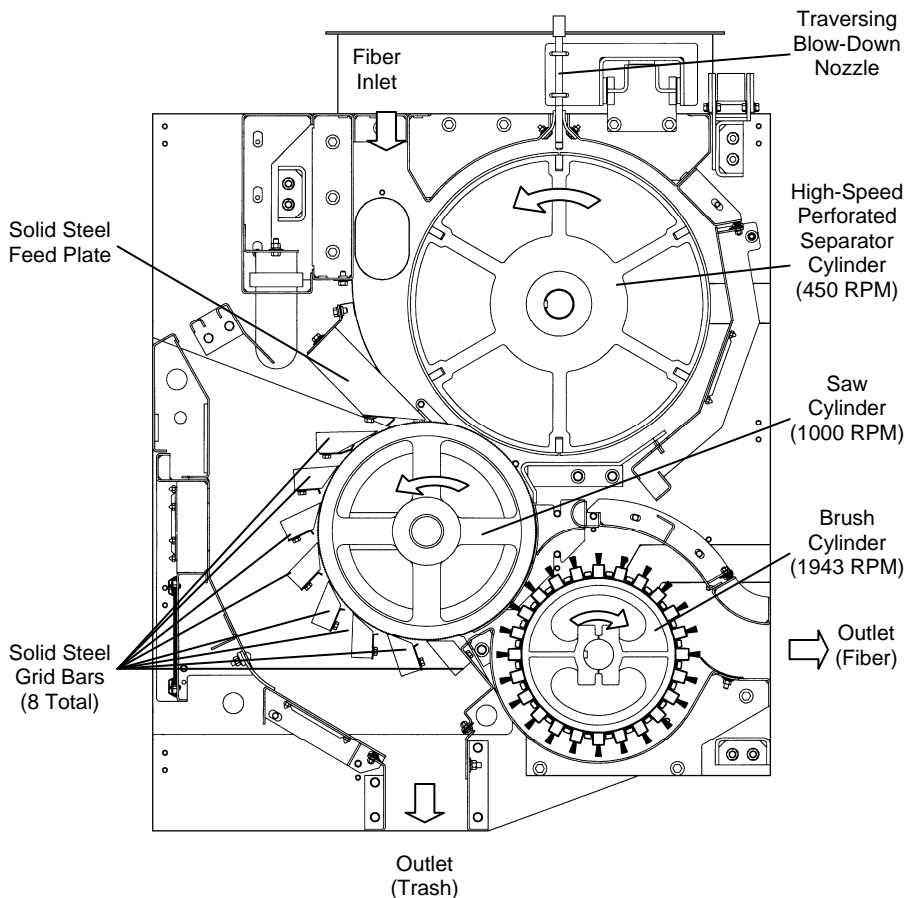
Sentinel™ Lint Cleaner

The Lummus Sentinel™ Lint Cleaner is a saw-type lint cleaner that applies individual tufts of fiber directly to the saw through the use of a high-speed perforated air and dust separator cylinder, rather than agglomerating the lint into a batt on a low-speed revolving condenser drum. By using this method, the conveying air and dust are more effectively removed than in conventional saw-type lint cleaners, where the batt tends to act as a filter, trapping dust before it can be exhausted with the conveying air. Also, trash particles are never compressed into the fiber, due to the absence of the traditional lint cleaner feed works. The reduction in mechanical parts, through the elimination of the condenser and its drive assembly, along with the simplified feeding concept, have yielded a more forgiving design for operation over a wider range of ginning speeds. The Sentinel™ design incorporates numerous maintenance-friendly features and improvements without compromising safety. Field performance and evaluation over four years of operation have demonstrated encouraging results in both fiber quality and throughput capacity. The Sentinel™ Lint Cleaner is available in 86" and 108" widths.



SENTINEL™ FEATURES:

- Eight (8) grid bars for better cleaning and less fiber loss.
- Removable grid bar section with rigid frame – allows for removal of the saw cylinder through the front of the machine without disturbing grid bar settings.
- No feed works for simplified maintenance and operation (due to the elimination of the requirement to alter feed works speed based upon fluctuations in ginning rate).
- High-speed Separator Cylinder for improved dust and fine trash removal.
- Stop-Motion Sensors with indicator lights on door interlocks for personnel safety.
- Saw and Brush Cylinders are the same as those used in Lummus' Model 86 and 108 Lint Cleaners.
- Heavy-duty steel Feed Plate, Grid Bars and End Heads.
- Only three (3) cylinders in the entire machine – the same size pillow block bearing is used for all three shafts.
- Only one motor per lint cleaner (30-HP for 86" wide model and 40-HP for 108" wide model) – no variable-speed condenser drive motors.



Cross-section of Sentinel™ Lint Cleaner



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