

Vibration and Shock Isolation for Pulp and Paper Mill Applications



Typical Applications:

- *Cranes*
- *Debarkers*
- *Power Stations*
- *Chipping Machines*
- *Hogs (Bark Shredders)*
- *Vibrating Screens*
- *Pumps*
- *Piping*
- *Conveyors*
- *Pulp Presses*
- *Trunion Bearings*

Fabreeka® International has been providing vibration isolation solutions for all types of pulp and paper mill applications since the late 1940's.

Mechanical and chemical pulp and paper mills both have equipment in their processes which produce high levels of vibration and shock. Fabreeka® has Engineering and Sales personnel worldwide to support mills with their vibration and shock applications.

Pulp & Paper Mill Applications

There are many applications for Fabreeka® products and systems within the pulp and paper industry.

The initial handling of the logs is the same whether they are being processed for lumber or for paper making pulp. In either case, the logs are first run over bark-er rolls to remove the bark, and then they are picked up by carriage rolls and fed into band mill saws.

Carriage Rails Fabreeka® pads 11/32" thick are used under the full length of the rails that are usually about 50' or 60' long. When weighted to capacity, the carriage load equals approximately 70,000 lbs. Fabreeka® pad takes up any slight irregularities of the base of the rail to eliminate any need for precision grinding and absorbs the impact shock transmitted to the supporting structure.

Barker Rolls Fabreeka® pads 5/8" and 1" thick are used under the bearing blocks supporting the barker rolls to absorb the heavy impacts caused by the logs being tossed around the rolls in removing bark.

Band Mill Saws After having the bark removed, the logs are picked up by carriages and fed into band saws, which are also mounted on Fabreeka® pads.

When lumber is being processed for use in the making of paper pulp, it is taken from the band mill saws on roller conveyors first into Chippers, then Hogs, then Mixing Tanks and finally Vibrating Screens. Fabreeka® or Fabcel® pads are used in mounting this equipment to reduce shock and vibration as follows:

Chipping Machines Fabreeka® pads 5/8", 3/4" or 1" thick or Fabcel® stacks are used to reduce the impact shock and vibration being transmitted to the foundation. The rotary impacts that characterize the operation of these machines can cause damage to the concrete and steel base under the machines unless they are mounted on compliant pads.

Hogs (Bark Shredders) Fabreeka® pads, usually 5/8" or 3/4" in thickness or Fabcel® stacks are used with washers and bushings at the base anchor bolts.



Vibrating Screens Fabreeka® pads 5/8" or 3/4" thick or Fabcel® stacks, along with washers and bushings are used to isolate the screens from their supporting structures.

Paper Refiners Fabreeka® pads varying from 5/8" to 1" thickness or Fabcel® stacks used under the machine base, along with washers at the anchor bolts.

After the initial handling of logs where they are prepared in the same way whether being processed for wood products or paper pulp, they go through Edgers, Matchers, and Saws, when being made into lumber and wood products.

The Edgers, Trimmers and Matchers are mounted on 5/8" thick pads and washers at the anchor bolts, while 3/4" thick pads are usually used under the Saws. The Fabreeka® pads reduce the impact shock transmitted to the foundation and permit more accurate performance by isolating objectionable vibration.

Area of Isolation	Isolation Product
Portal Crane	Crane Rail Pad
Debarkers	Fabreeka® Pad
Chippers	Fabreeka® / Fabcel® Pad
Hogs	Fabreeka® / Fabcel® Pad
Conveyors	Belting / SBX Bearings
Piping	Pipe Slides
Pulp Machine	Fabreeka® / Fabcel® Pad
Pulp Press	Fabreeka® Pad
Cutter Lay Boy	Fabreeka® Pad
Precipitator	Slide Bearings
Smoke Stack - Steel	Damping Ring
Lime Kiln	Fabreeka® Pad
Power Sub Station	Transformer Mount
Pump Station	Fabreeka® / Fabcel® Pad

For more information on this or any Fabreeka® application, please visit our website or contact one of our sales and service facilities worldwide.

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