ULTRASONIC CLEANING IN THE TIMBER INDUSTRIES

What is 'Ultrasonic Cleaning?'

How does it work?

How can it benefit your Industry?

Garry OWEN 8/09/09 [WOODpro. A division of 'focus21 limited']

A way to IMPROVE SAFETY, EFFECTIVNESS and TIME MANAGEMENT

• Ultrasonic Cleaning What is it?
• Birth of the Ultrasonic Cleaner
• Reasons for using ultrasonic activity for cleaning
• What makes up an ultrasonic cleaner
• Output Power Levels and Operating Frequency
• The Decibel
• The 'F' Factor (Fact or Fiction)
• Other Trade Users and Uses
• Cleaning Fluids
• Ultrasonic Cleaning Possibilities for the Sawmilling Industry.

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REASONS for using Ultrasonic Activity

Non Selective and Efficient
Effective
All Embracing
Improved Operator Safety
Enhances the Performance of standard cleaning solutions.

An ULTRASONIC SYSTEM
Generally consists of;

• A Tank or Bath
• Sandwich Transducer Pillars
• A Generator

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BENCHTOP BATH are small compact baths using lightweight, 0.5 mm, pressed stainless steel bowls.

INDUSTRIAL quality TANKs or baths are fabricated from heavier gauge 2 mm SS.
TRANSDUCER PILLAR STACKS

Converting high frequency electrical energy into mechanical motion and bonded to a radiating plate.

INDUSTRIAL GENERATOR

Converting low frequency line power to high frequency power
PERFORMANCE REGULATORS

• Output Power Levels
• Operating Frequency
• The Decibel

The ‘F’ FACTOR

Uniformed speculation without verification, if repeated often enough, sometimes become looked upon as a fact.
A well accepted method of cleaning ranging from Healthcare to Manufacturing, Commercial Cleaning to Maintenance.


OTHER EXAMPLES

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OTHER EXAMPLES

The SAWMILLING INDUSTRY

• Is vigorous manual or mechanical work required that could damage or reduce effectiveness of an item?
• Does such damage lead to a need for greater follow up procedures such as increased grinding and removal of material resulting in early replacement and expense?
• Are you putting your staff at risk?
• Could your staff be better employed doing other skilled work?
• Do you have other items around the plant that are hard to clean such as feed rollers or bearings?