

mitech news

Hello and welcome to the January 2023 edition of our News Letter

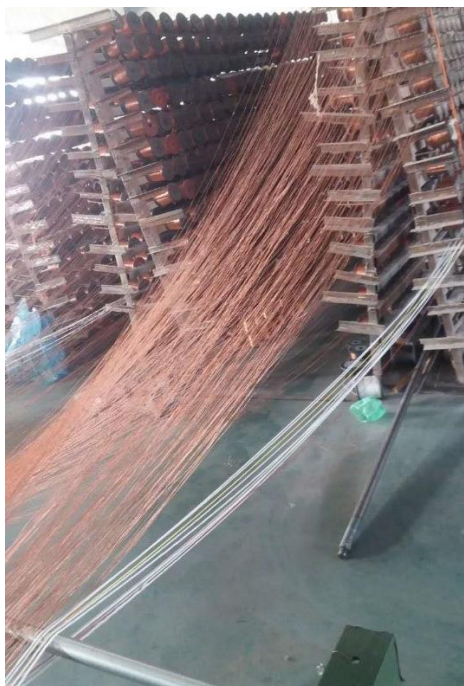


In this edition:

- MAX Plus Press Cushions
- Notes on press cushions
- Used Machinery list

We focus on short cycle pressing for this edition

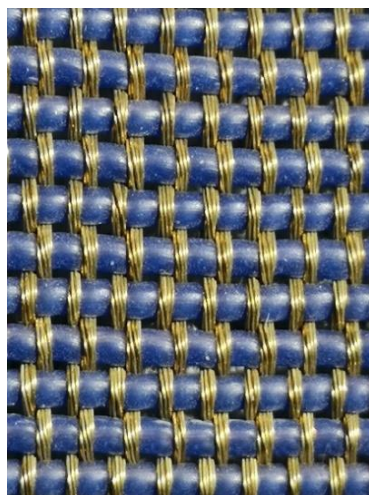
Press cushions (or pads)



We take this chance again to re-introduce our press pads (press cushions) services for lamination presses.

Our MAX were developed in collaboration between Great Richwell, Shanghai, and Mitech.

Our press pad service has been successful, but we want to more lamination companies to experience **MAX**



These press pads satisfy all the usual performance criteria.

- Uniform heat transfer
- Excellent pressure compensation
- Long lifetime
- Good tensile strength
- Dimensional stability
- Heat resistance
- "Window-frame" resistance

Notes on press cushion lifetime:

For all press cushions, silicon fibres become permanently compressed over their lifetime. Therefore, the ability to compensate for minor substrate thickness variations and machine discrepancies diminishes slowly, and often unnoticed until at a critical level, when surface quality is noticeably defective

This is usually when we notice the classic defects:

- Porous surface
- Heat marks
- Flow marks

Often these defects are at specific areas according to the vagaries of a press.

The primary pressure compensation medium is the inherent softness of a wood substrate.

So for example, particleboard offers more compensation than MDF.

HDF and plywood are the hardest substrates, requiring most pressure compensation.

Regarding temperature transfer, too fast can be more of a problem than too slow!

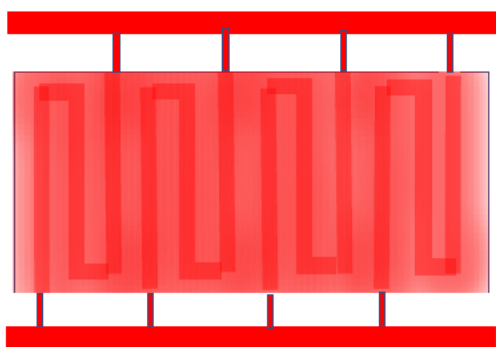
The fastest heat transfer would be with no cushion at all!

But a good press cushion offers lateral heat distribution to disperse the uneven platen temperature.

The type of caul plate metal and the thickness also affect lateral temperature distribution.

Theoretically. What happens with a thin caul plate, no pad, or a poorly designed pad (cushion)?

Hot platen surface without press cushion and caul plate



Hot platen surface with press cushion and caul



Thermal oil Inlet



So, with all these factors optimised, a high performance press cushion is essential

Used machinery list

21-001	Dieffenbacher Melamine press	6ft x 8ft – Excellent- operating
22-010	Siempelkamp press frames	4x12 short cycle press. 8 available – brand new!
22/015	Dieffenbacher MDF or particleboard	2005 700m3/Day 4.5 mill USD
22/016	Dieffenbacher 21m particleboard Formers to press	2006- 700m3/Day 4.8 mill USD



We repeat that shipping delays are almost normal now!

So we take this opportunity to remind everyone that for us, and we assume all of your overseas suppliers, **please order in advanced** with contingency allowances for vessel cancellation or departure delays.

1 to 2 week delays are now the rule and not the exception.

Customers are advised to order early to avoid production holdups

Finally to all our Asian friends:



Thank you for reading and for your interest and to those who take time to comment.

We are all learning, so we invite comment on any topic or suggestions for topics. If we don't know, we do know others who do know

Back issues

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Engineered wood panels

- Conveyors
- Chippers
- Resin plants
- Chip washers
- Plywood presses

Panel Lamination

- Paper impregnation lines
- Short Cycle Presses
- HPL Presses
- Veneer presses
- Press Pads
- Press Caul Plates
- Paper winders
- Paper Cutters
- Protective Foil application

Additives

- Release Agents
- Wetting Agents
- Hardeners
- Dyes and Pigments

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An Experienced Wood panel machinery and materials supplier

Our years of experience in the market, dealing with various clients, each with unique requirements have driven us to increase knowledge and skill

We always endeavour to meet your expectations.

Contact us any time for any query related to our products. We are happy to assist you.