

APPLICATION

Siempelkamp Press

LE Reduces Machine Wear by 50% for Laminate Board Production Company

CUSTOMER TESTIMONIAL

The Laminex Group, New Zealand

CHALLENGE

Quality control rejections due to lubricant drying out, excessive wear and excessive downtime for maintenance

SOLUTION

H1 Quinplex® Penetrating Oil & Lubricant (4058)

RESULTS

- Reduced machine wear by 50%
- Doubled equipment life
- Reduced downtime by 80 hours per year

Customer Profile

The Laminex Group is a subsidiary of Fletcher Building NZ. This site is based in Hamilton, Waikato, and specialises in laminate boards. The brand is Laminam. They run to a "Just in Time" manufacturing method, and have a two-day turnaround from time of order to delivery of product to the customer. They operate 24/7 and have four hours a week for plant maintenance.

Application

Their 20-year old Siempelkamp press produces on average three sheets a minute. It hot presses the laminate onto the wood at 2.7kg/cm. This process takes 6.2 seconds, and is used for laminating wood sheets of varying sizes, as well as MDF and particle board.

Challenge

The machine has numerous rollers, slides and mechanisms that move for picking up, placing and moving the boards. The lubricant they were using would dry out before the end of the day and would sling off onto the product, causing quality control rejections. The equipment was having to be serviced annually replacing all the slides, etc. This would take two people 40 hours each on this machine alone.

RESULTS

Since using H1 Quinplex Penetrating Oil & Lubricant, they only have to replace the slides, bearings and rollers every two years. This is saving 80 man hours a year on this machine alone and halving the amount of parts that are needed. H1 Quinplex 4058 does not fall off the machine onto the products, so rejects are kept to a bare minimum. Machine wear has been reduced by 50%.

The previous product would dry out before the weekend, causing the machine to slow and cause production time issues. H1 Quinplex® 4058 stays wet and provides consistent results.

"Its ability to penetrate and stay in place is what gets the job done", said Neville Collins, reliability engineer.



LE Solution

H1 Quinplex® Penetrating Oil & Lubricant (4058) penetrates easily and quickly, stays in place, is easy to apply and does not attract dust and dirt.

Other LE Products Used

- H1 Quinplex® Penetrating Oil & Lubricant (4059) – general lubrication when precise application is not needed
- Wirelife® Almasol® Coating Grease (452) – Used on chains

*Thanks to Neville Collins, reliability engineer and LE lubrication consultant
Chris Unsworth (pictured) for helping to provide the information used in this report.*



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