

# FORESTRY

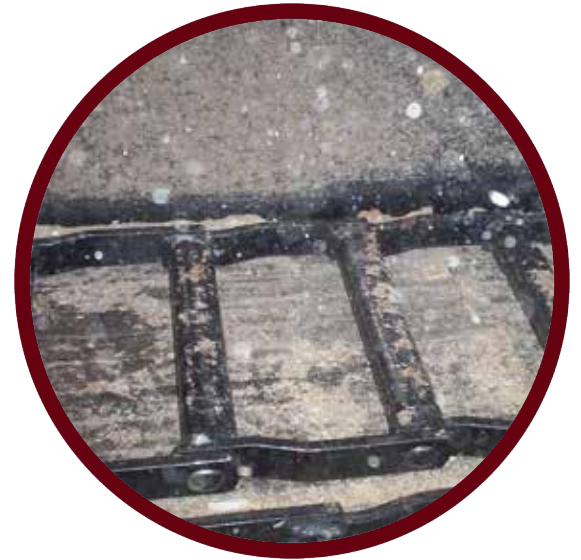
"No Wear Comes Close"®



# ABOUT TRIMAY®

Trimay® is a manufacturer of advanced wear materials that are designed to significantly increase wear life on equipment components for the forestry industry. These patented alloys are engineered to provide exponential increases in wear life and significant reductions in repair and maintenance costs resulting in increased maintenance ROI.

Trimay Advanced Wear Materials are supplied as Wear Plate, Wear Pipe, Elbows, Transitions and Bends.



## FORESTRY APPLICATIONS

Hog Decks

Jack Ladder Floors

Flat Back Elbows

ID Fans and Scroll Liners

Chip Conveyor Floors

Conveyor Chain Guides

Hog Grates

De-barker Drums

Oregon Bends

Hog Fuel Delivery Augers

Chip Loader Bucket Cutting Edges

Log Grapple Shoes



## CASE STUDY 1 - Conveyor Chain Guides

### PROBLEM

A Sawmill Package Outfeed Transfer at a lumber mill was exhibiting frequent outages due to wear on the chain guides. The guides are 4" channel steel with heavy duty H78 running in them in an "S" drive configuration. The chain guides have AR type material for wear. With the AR type material the H78 chain requires change out 2 times per year and the AR guides are replaced once per year.

### SOLUTION

Trimay T157 was installed in the chain guides replacing the AR type material. T157 was chosen for its superior abrasion resistance and low friction coefficient.

### RESULT

The T157 chain guides have been in place for 6 years and has more than half of their wear life left.

The low friction coefficient of the T157 has significantly increased the wear life of the H78 chain. The H78 chain has been in service for 6 years as well and still has significant life left.

This has provided significant cost savings in mill maintenance and the mill has since installed Trimay T157 in several other areas in the mill where the wear results and cost savings are bearing out the same results as above.

The client also experienced a noticeable "amp drop" on the drive motors on the Outfeeder and a corresponding drop in power consumption due to the decreased friction on the chain.



## CASE STUDY 2 - Hog Fuel Deck

### PROBLEM

A lumber mill client was experiencing severe wear on the ladder rails and cross-members for a hog fuel deck application. The ladder cross-rails are a maintenance item and the premature wear was proving to be prohibitively expensive using current materials.

### SOLUTION

Trimay T171 was chosen as a ladder rail bed for the cross members to run on. The extremely low friction coefficient and extremely high resistance to abrasive wear of the Trimay T171 were deciding factors in choosing this material.

### RESULT

The wear on the hog fuel deck cross rails was reduced by 10 to the power of 50. The cost savings to the mill are significant and maintenance downtime has been all but eliminated on this component.



# WHY TRIMAY®

## QUALITY

Tightly controlled manufacturing process

Commitment to continuous improvement through Research and Development.

- Recently Trimay has developed two new alloy blends. One achieves abrasion resistance approaching Tungsten Carbide at one quarter the cost. The other achieves the same wear with the impact resistance of Manganese.

## TRACEABILITY

All products manufactured by Trimay can be traced back to source. Information on each component, alloy applied and testing performed is readily available to the client.

## RELIABILITY

Trimay Products are submitted to rigorous, random testing to ensure consistency and high standards.

Decades of repeat business and successful field applications show the confidence our clients have in Trimay Wear Materials.



## TRIMAY WEAR PLATE AND WEAR PIPE ALLOYS

All Trimay alloys are proprietary and blended in-house. They are available as clad plate in 3mm to 17mm overlay thickness and 9mm to 50mm total thickness. They are also available in clad pipe from 3"-48" diameter and as consumables in wire and electrode.

### T168I

T168i is a revolutionary new material specifically designed as a chromium free and heat-treatable material. It provides the best performance in aggressive environments where severe impact and abrasive wear are critical sources of material failure.

### T171

T171 is a patented Boron Carbide iron based steel overlay wear solution with a near nanoscale (submicron) microstructure. T171 is well suited for the toughest jobs in the most extreme service environments. T171 is developed by Trimay® Wear Plate Ltd.

### T170

T170 is a Tungsten Carbide alloy in a nickel based steel overlay wear solution with a unique proprietary composition designed to withstand heavy impact and severe wear environments.

### T138, T156 AND T157

T138, T156 and T157 are Chromium Carbide alloys in an iron-based steel overlay deposit. Each of the Alloy blends provide unique combinations of wear resistance, impact resistance and co-efficient of friction. T157 is our best-selling product with decades of blind wear tests showing that it is the best CrC Wear Plate available on the market.



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