



From Repeated
Failures to a
Reliable Custom
Automatic
Lubrication System

MANUFACTURING, NSW

From Repeated Failures to a Reliable Solution

Chain breaking multiple times in a month

Poor lubrication in areas of failure, worn wheels and broken bushes

Customer Profile:

Metals Manufacturer, located in NSW

Application:

Scrap Chain Conveyor System

The Challenge:

The delivery conveyor was failing multiple times within a single month, causing downtime and ongoing maintenance challenges. Investigation identified:

- Inadequate lubrication at critical points
- Worn wheels and broken bushes
- High maintenance effort with no long-term fix

Previous State



Customer Solution

The customer moved away from reactive maintenance and implemented a DropsA VIP4 Coaxial automated lubrication system, specifically engineered by Lubrication Engineering for harsh operating conditions. Key elements included:

- 4-point chain spray lubrication system
- Custom VIP4 Coaxial unit with 6L reservoir
- Custom Stainless steel spray nozzles
- Level sensor, pulse generator and 24V air solenoid

And correctly specified chain oil for consistency and protection, Lubrication Engineers LE2001 Wirelife® Monolec® Penetrating Lubricant, which is excellent as a penetrating lubricant for chains of all sizes.

Results:

By eliminating repeated chain failures that had occurred multiple times each month, the customer was able to move from constant reactive maintenance to a more reliable and predictable operation. The solution improved production continuity, reduced unplanned downtime, lowered maintenance labour requirements, and increased confidence in the conveyor system's long-term performance. Delivering:

- Consistent lubrication at all critical points
- Reduced chain wear and component damage
- Improved equipment reliability
- Lower maintenance intervention and downtime

This project highlights how the right lubrication strategy, combined with a smart automatic lubrication system design, can significantly extend equipment life and improve operational performance.



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Lubrication Engineering Pty Ltd | Unit 1D/201 Power Street, Glendenning NSW 2761 Australia
P +61 2 9636 5655 | E sales@lubeng.com.au | www.lubeng.com.au