Leverlink®
World Class Engineering Solutions

Designed and Manufactured in Australia

Imagine Tensioning a Chain This Big?

Think

SAFETY

Reliability

Low Maintenance

LLS-019-1215

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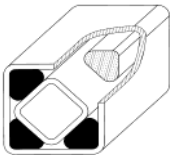
Rotary Breakers



TRADITIONAL

A simple Jockey Sprocket mounted on a pedestal with vertical adjustment.

- Limited in its adjustment.
- High sprocket wear.
- Bearing failure.

HISTORY

Stage 1

More than 20 years plus ago, we developed the first major upgrade to chain tensioning on Rotating Coal Breakers.

We mounted the sprocket on a frame with a rubber torsion spring connected to a mechanical vertical adjusting screw.

- Semi-automatic adjustment within the range of a single torsion spring angular movement.
- Reduced shock-load to bearings.

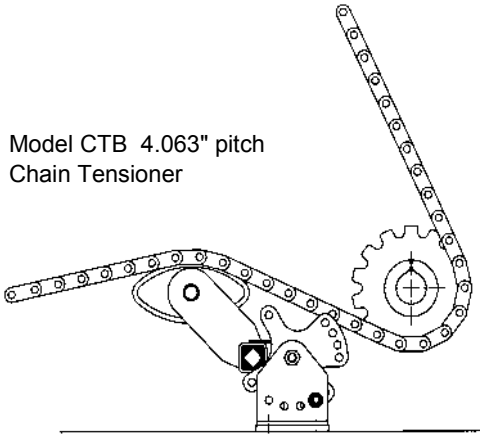
This was a huge step forward from the old systems being used.

THE NEXT UPGRADE

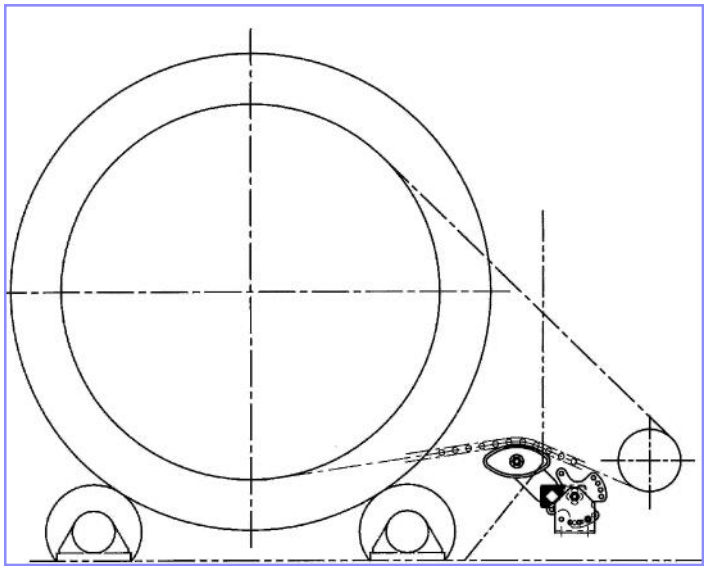
Stage 2

Some 19 years ago, we made the most significant upgrade, engineering out all of the faults in the **Stage 1** system .

Model CTB 4.063" pitch
Chain Tensioner



THE NEXT UPGRADE



Stage 2

The **STAGE 1** sprocket assembly including bearings weighted well over **100 kilograms**. Required greasing regularly and was subject to bearing failure. The rubber torsion spring was limited in its movement and often required replacing due to oil and grease from the chain destroying the natural rubber elements.

The design required the chain run above the supporting structure.

The solution was to redesign and upgrade to a modern system that would be simple to adjust, and provide a long service life.

Polymer Rubbing Block
Can be used on both sides. The smooth surface reduces chain wear. Eliminates noise from the chain engaging a steel sprocket.

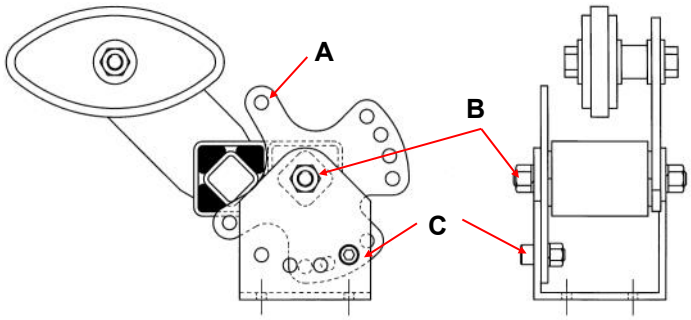
Duel Rubber Torsion Springs.
Doubles the angular movement for greater chain adjustment.

Bracket
The fixing bracket can be mounted in any position to suit application.

Polymer Rubbing Block Position.
Can be mounted right of left handed. The best position is shown in the picture (outboard). The spring is clear of contaminates such as oil and grease.

Adjusting & Maintenance

1. Fit chain block or “come a long” to hole **A** and take up slack.
2. Loosen pivot bolt **B.**
3. Remove locking bolt **C.**
4. Adjust with chain block.
5. Refit locking bolt **C**
6. Retighten pivot bolt **B**
7. Remove chain block.



Benefits

- **The Polymer Rubbing Bock will outlast a sprocket by up to 4 times.**
- **The rubbing block weighs 5 kilograms and can be replaced in approximately 25 to 30 minutes.**
  A sprocket can take all day.
- **No bearings to replace.**
- **Will extend the chain life.**
- **No more gut busting.**
- **Noise reduction due to the chordal effect of the sprocket engaging the chain has been eliminated and secondly solid borne noise is dissipated due to the rubber torsion spring.**

Leverlink®
World Class Engineering Solutions

From One Inch to Six Inch Pitch

Reducing Chain Drive

Operating Costs

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CONTINUOUS IMPROVEMENT POLICY

As a part of our policy of continuous improvement, Leverlink® reserves the right to make design and specification changes for product improvement without prior notice.