**Safe Conveyor Frame**

**The challenge**
High-speed belts with heavy linear loads can cause serious injury or be fatal, particularly in the context of staff performing maintenance activities. Specifically, a draw in safety hazard exists on conveyor belts at the nip point between the belt and the rollers.

Despite these risks, implementation of conveyor guards along their entire length has been seen to date as impractical and cost prohibitive.

**The solution**
GHD has designed the Safe Conveyor Frame to provide a cost effective method to prevent the risk of serious accidents occurring from entanglement during operation and maintenance of conveyor systems.

This design has multi-industry application. The major users of the solution are large industrial companies in mining, agriculture, ports, quarries and transport industries.

The Safe Conveyor Frame is suitable for:
- Organisations looking to enhance worker safety using a simple, cost effective solution
- Manufacturers looking to offer their clients a differentiated approach to maximising conveyor safety.

GHD has a sealed patent covering this solution.

**Features and key benefits**
The Safe Conveyor Frame's design is an offset idler frame, placed with the rolls on the downstream side of the frame. The frame follows the belt profile as closely as practical to provide a nip guard.

In addition, the frame:
- can be rigid suspended or base mounted
- will shield the dangerous draw in zone
- can be square or circular hollow tube

Key benefits:
- Creates a physical barrier to the draw-in hazard between the belt and idler roll using the idler frame itself without significant additional cost
- Protects the draw in zone by the mounting frame itself with no extra steelwork, guards or attachments required
- Eliminates the need for extensive guards, fences or risk acceptance
- Ensures protection of the conveyor belt in the event of a collapsed roll
Contact

If you would like to learn more on whether the Safe Conveyer Frame is suitable to your needs then please contact:

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About GHD & Innovations

Established in 1928, GHD is one of the world’s leading engineering, architecture and environmental consulting firms.

GHD’s award winning innovation program brings together our 6000 people around the globe to create, collaborate on and deliver new ideas.

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Before - Unguarded Conveyor Systems

After - GHD’s Safe Conveyor Frame Solution