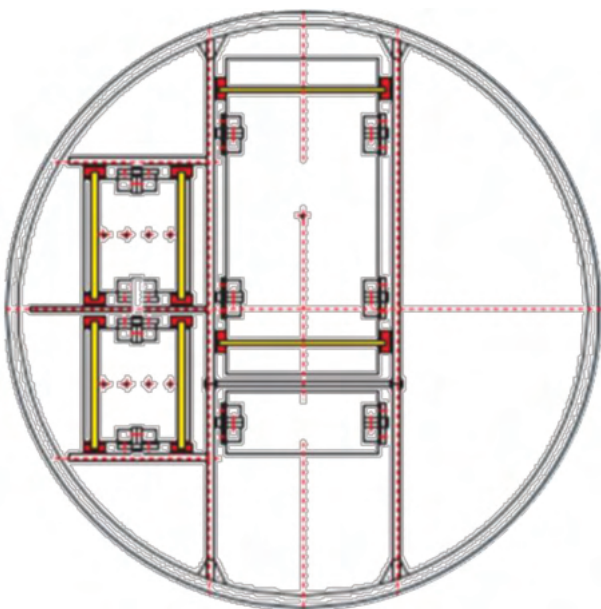


# OVERWIND ARRESTING

Conveyance arresting is the accidental event of the winder not stopping the conveyance timeously. Advantages of the **technogrid**<sup>®</sup> overwind impact protection system:

- Very small initial impact forces. This is due to a light Catch Strap, Catch Frame or Catch Hook and the progressive energy absorption properties of the system.
- Predictable reaction forces relating to the conveyance and headgear design.
- A **technogrid**<sup>®</sup> is narrow and occupies minimal space in the shaft steel work.
- A **technogrid**<sup>®</sup> system can be retrofitted into existing mines.
- Each **technogrid**<sup>®</sup> system is custom designed for the given application.
- No maintenance required only an annual visual inspection.



Plan view of how a **technogrid**<sup>®</sup> overwind system  
Can be installed inside the shaft steel work



A **technogrid**<sup>®</sup> overwind system with  
Catch Hooks (Left) and Catch Straps (Right)

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# PREDICTABLE ENERGY ABSORPTION

When designing a **technogrid**<sup>®</sup> overwind system the following factors are taken into account:

## Total Conveyance System Inertia

- Rotor
- Winder Drum
- Sheave Wheels
- Rope Detail
- Conveyance A (Cage or Skip)
- Conveyance B (Cage, Skip, or Counterweight)

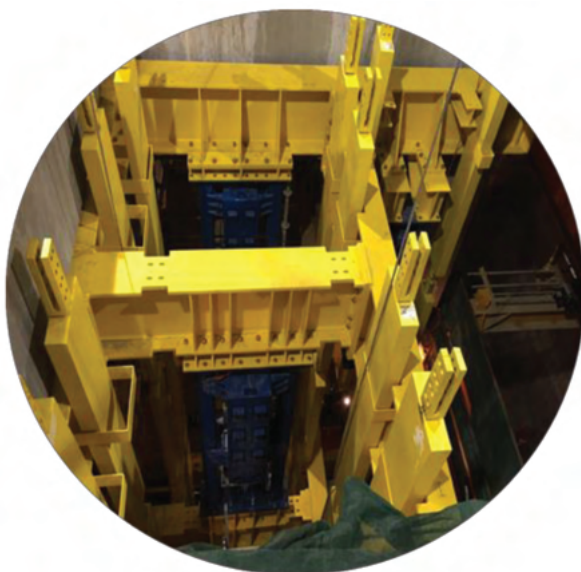
## Stroke Distance

- The stroke of the system is dependent on the specified deceleration rate and rope breaking force.
- Limited by available space in headgear.

## Impact Speed

Once the total energy of the conveyance system has been calculated, the **technogrid**<sup>®</sup> overwind system is designed to optimise the energy absorption with the given design specifications and limitations.

This is done by configuring technogrid units in series and parallel.



A **technogrid**<sup>®</sup> overwind system being installed in the headgear



For a Technical Proposal please contact us and provide a Winder Duty Cycle Design Specification Sheet.

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