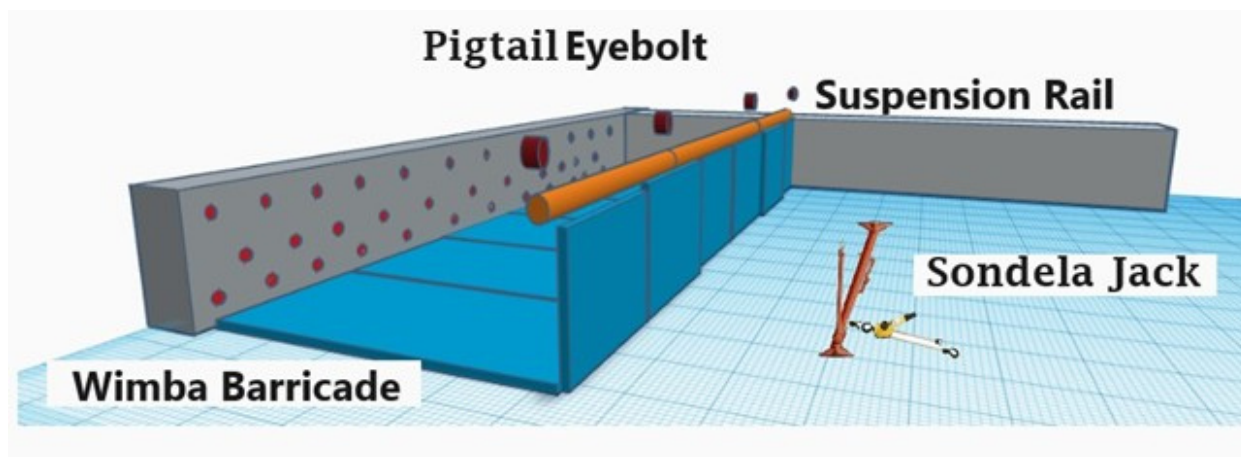


SMI BLASTING BARRICADE



Keeps the blast you lose to sweeping

Back areas stay clean, so catching up before measuring day does not cost a blast.

UNDERGROUND APPLICATION

- Across the full panel width, 4 m from the face
- Conventional stoping
- Advanced daily with the face during in-stope roof bolting
- No mine poles or sticks required
- No winch needed to move the barricade forward

DEVELOPMENT STATUS

New product, currently in development. Design and manufacture are complete; underground trialling has not yet been carried out. SMI is seeking a host shaft for a production trial.



SMI BLASTING BARRICADE

THE PROBLEM — UNDERGROUND REALITY

- After a blast, broken ore re-contaminates back areas that were already swept clean.
- Catching up on sweeping before measuring day costs a blast.
- Conventional barricading needs mine poles and sticks, and a winch to advance it.
- A rough footwall makes sweeping slow and the sweeping tool ineffective.

THE SMI SOLUTION

A suspended conveyor-belt wall, advanced daily with the face, that stops back areas being re-contaminated and keeps the swept footwall clean to mine standard. No blast is lost catching up on sweeping before measuring day, and no winch is required to move the barricade forward.

BENEFITS

- Keeps swept footwall clean to mine standards and prevents re-contamination of back areas
- Creates a smooth footwall, so broken ore is removed quickly and the sweeping tool works properly
- Where all broken ore has been removed after the blast, the belt is moved forward manually — no winch
- Where broken ore sits on the barricade, the belt is advanced with the Sondela Jack
- No mine poles or sticks needed for installation
- Durable, user-friendly and effective
- A skill that integrates into the current cleaning crew's responsibilities

SPECIFICATIONS

SUSPENSION RAIL	3 m × 60 mm interlocking, suspended from the hanging wall across the panel width, 4 m from the face, on pigtail eyebolts drilled daily during in-stope roof bolting
BARRICADE	1.5 m wide × 6 m long conveyor belt attached skin to skin across the full panel width
OVERLAP	Belts overlap by 200 mm from the up-dip side
SECURING	Three securing points on the vertical side, forming a solid wall
SONDELA JACK	Supplied with a 3-ton lever hoist to pull each conveyor up to the face after a blast; required only where the barricade is weighed down by broken ore
ADVANCE	Rail and barricade advanced daily in accordance with mine standards

SUGGESTED SPARES

Defined spares set per product

IMPLEMENTATION

Dependent on the contract negotiated