

TECHMINE

SOLUTIONS

INTRODUCTION TO OUR
STRENGTHS AND CAPABILITIES

TECHMINE'S OBJECTIVE IS TO DEVELOP THE NEXT
GENERATION OF **CONVEYOR BELT MAINTENANCE** TOOLING



PROBLEM

Inherited risks such as tool failure, working under suspended loads, mobilizing of the heavy tooling generates a high risk of injury and fatigue through the manual handling task.

SOLUTION

Techmine Solutions ultra lightweight design has the ability to lift both the carry belt and the return belt simultaneously and safely without fear of lifting beyond design limitations and the ability to secure the load when raised.

Important Safety Aspects



- **Ultra-light weight design to reduce fatigue in operators.**
- **Designed and built to fit the profile of the belt and its load limits.**
- **Multi lock off points to secure load whilst working under belt.**
- **Hydraulic pressure by-pass as not to exceed safe load limit.**
- **Techmine pressure gauge giving the user an indicator of the weight being lifted.**
- **Exposure of 9 frames each side of lifter achieved.**
- **40 frames tented and exposed when using 2 lifters in conjunction.**
- **Training programme both onsite and at their Perth offices.**



Hydraulic Belt Lifter STD Components

- Magnetic base telescopes with locking pin.
- Battery operated, portable hydraulic pump.
- Light weight trough beam with return belt lifting lugs.
- Return belt lifting beams.
- Set of chains for connection of return belt beam.
- 4.5m hydraulic supply lines

Mechanical Belt Lifter

- 1.0 T Lifting capacity.
- Ideal for unscheduled breakdowns.
- Operated by 80 N/m battery drill.
- Can be used two meters away from the pulley.
- Ability to lift the return belt.
- Can be manufactured and customized to suit unique belt configurations.
- Designed to be serviceable and can be repaired.



Idler Transfer Tool



- **Removes the need for hands to be placed under idlers during transport.**
- **Eliminates process pinch points.**
- **Design ensures the idlers are secured by the rotating hasp.**
- **Very effective at unloading packed idlers from their transport crates.**

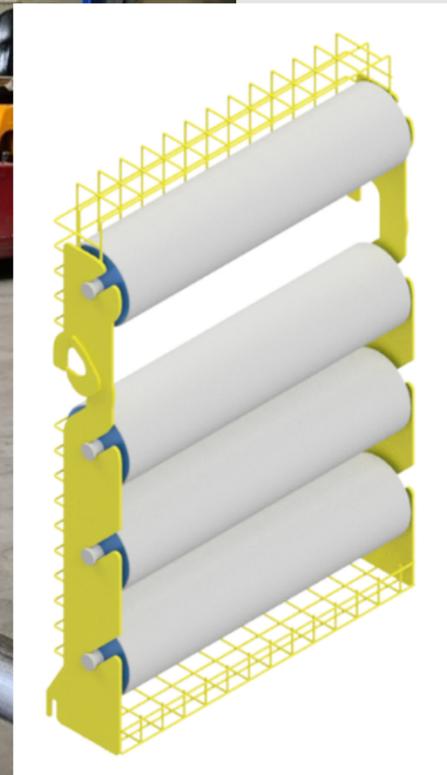
Walkway Idler Retainer

PROBLEM

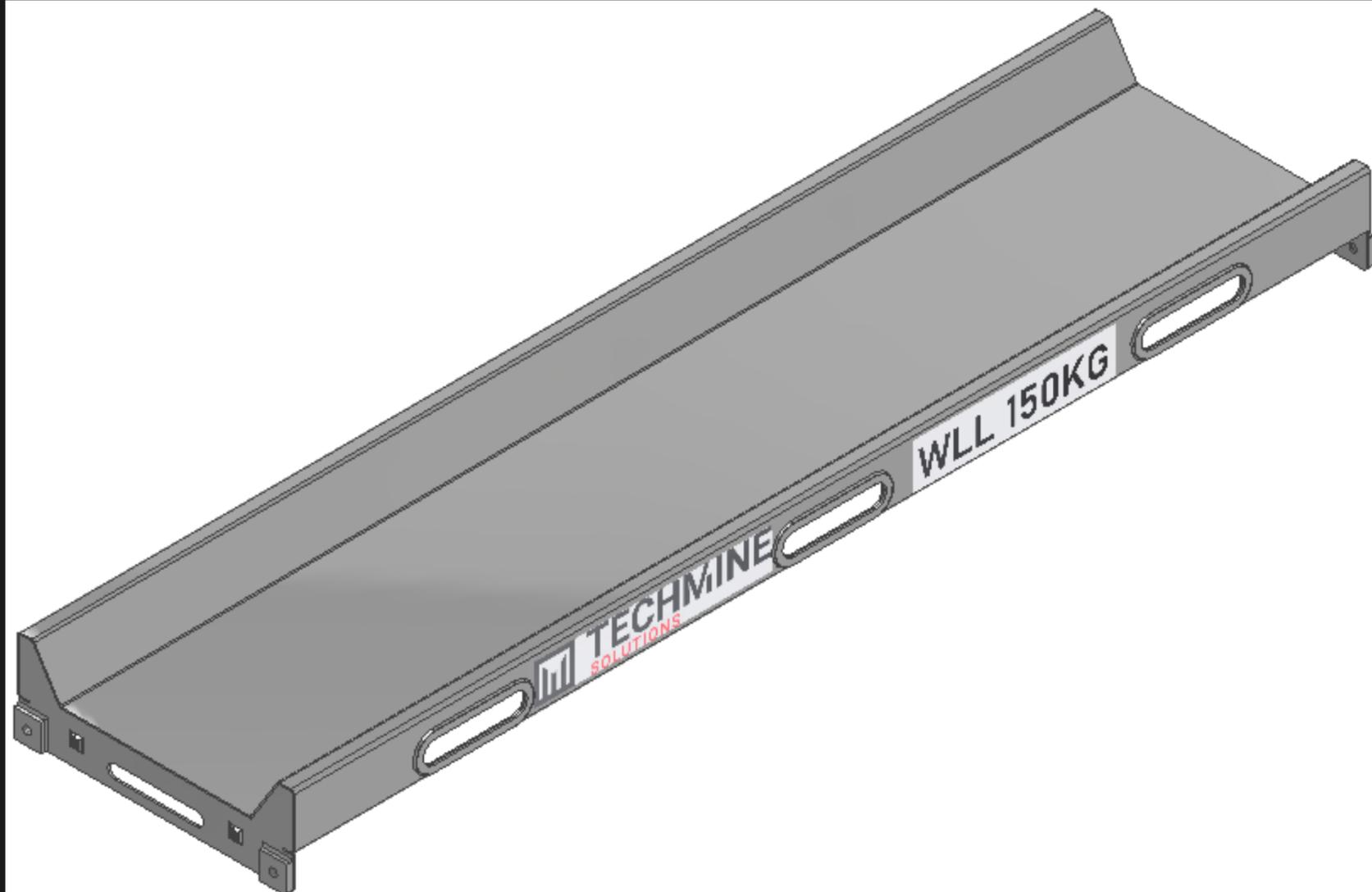
Unsecured idlers on inclined conveyors create trip hazards that have the potential for run away idlers. It may cause damage or injury to personnel and assets.

SOLUTION

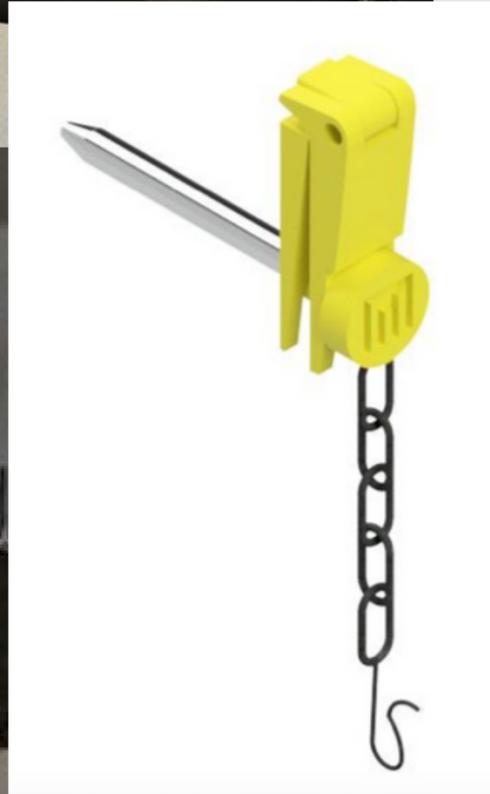
- Portable light-weight, handrail mounted idler retainer.
- Quick release locking mechanism.
- Dramatically increases the walkway task area.
- Eliminates loose idlers and trip hazards.



Access Plank



- **Light weight access plank.**
- **150 kg Working Load Limit.**
- **Designed to access return idler on stackers and reclaimers.**
- **Well suited for use on inclined return belt idlers.**
- **Equipped with slide rails effectively eliminating catch-points.**
- **Retaining nuts allows the access plank to be securely locked onto the kickplate.**

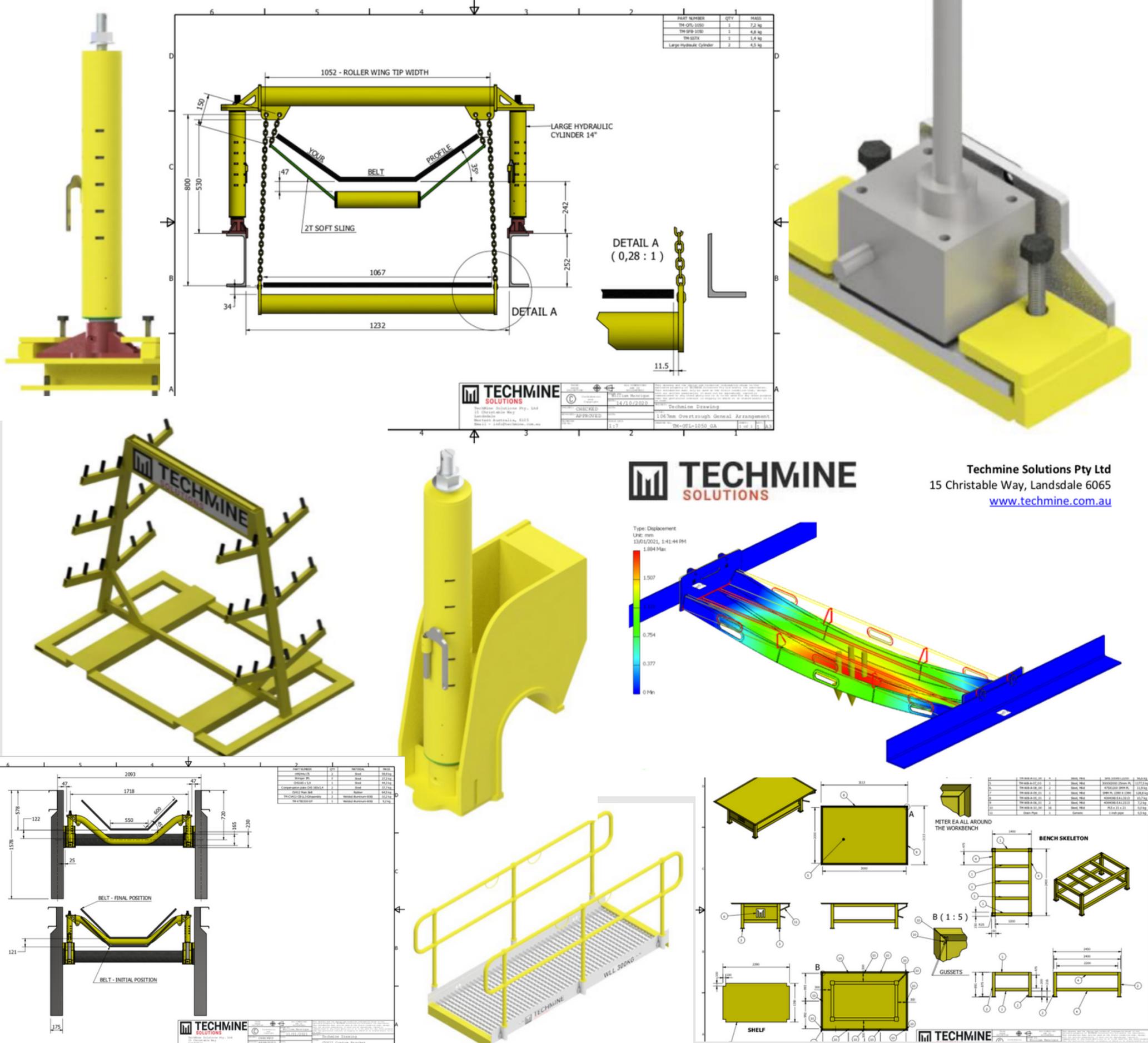


Impact Frame Pin Puller

- Safe and efficient removal of impact frame locking pins.
- Its unique two stage design provides maximum leverage during the pin removal process.
- Hydraulic powered operation.
- Tool provides a safer and more ergonomic alternative to conventional hammering of the pin to remove from impact frames.
- Reduces risk to workers and damage to equipment.
- Can also be used to remove idlers from its seat.

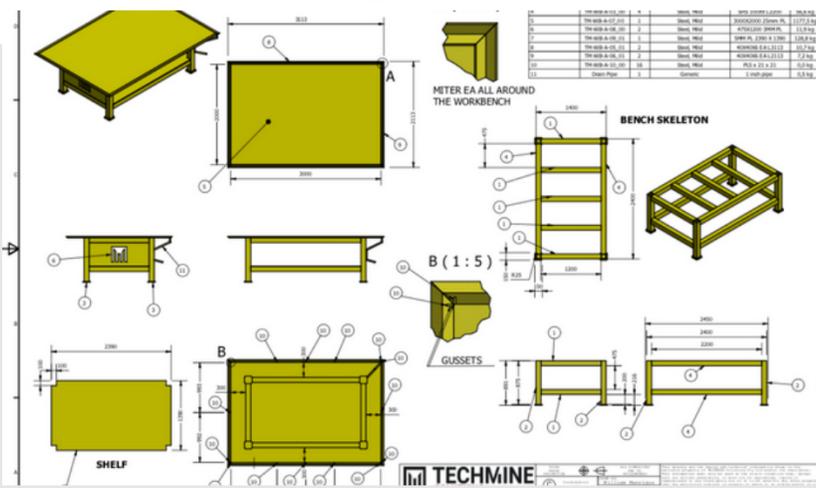
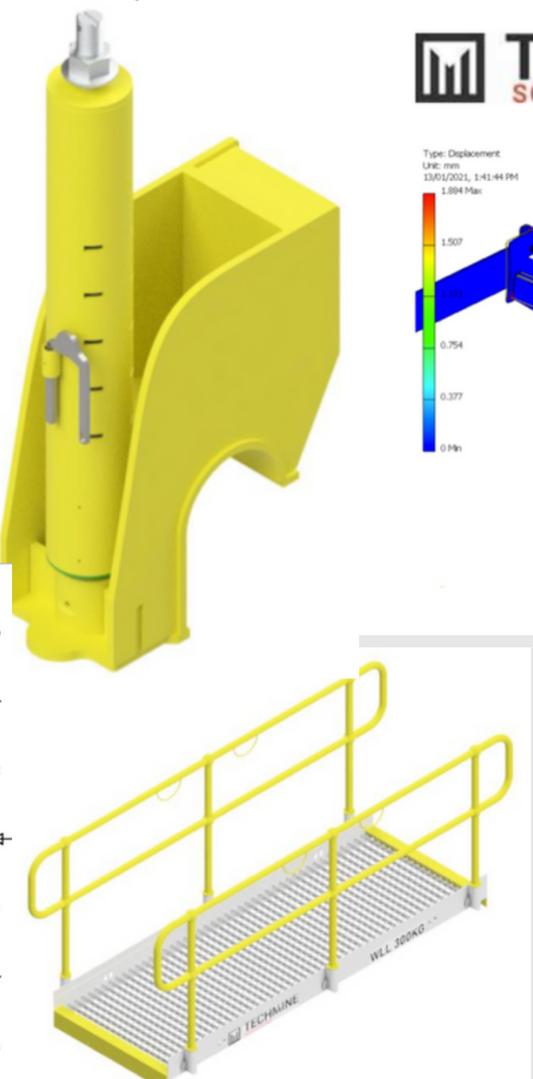
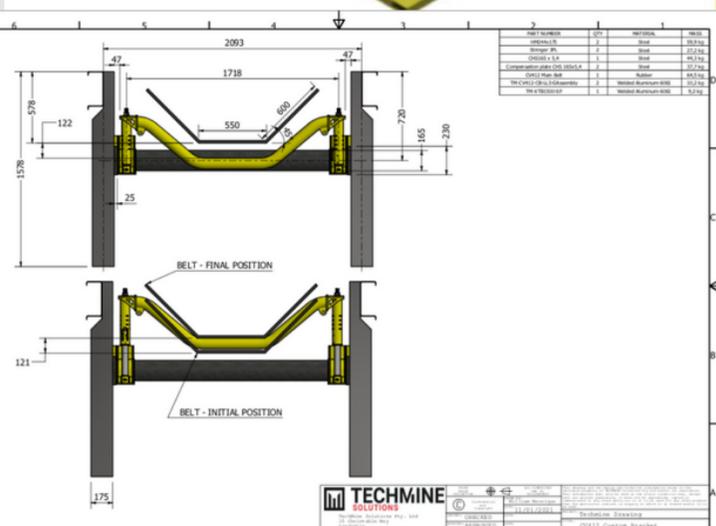
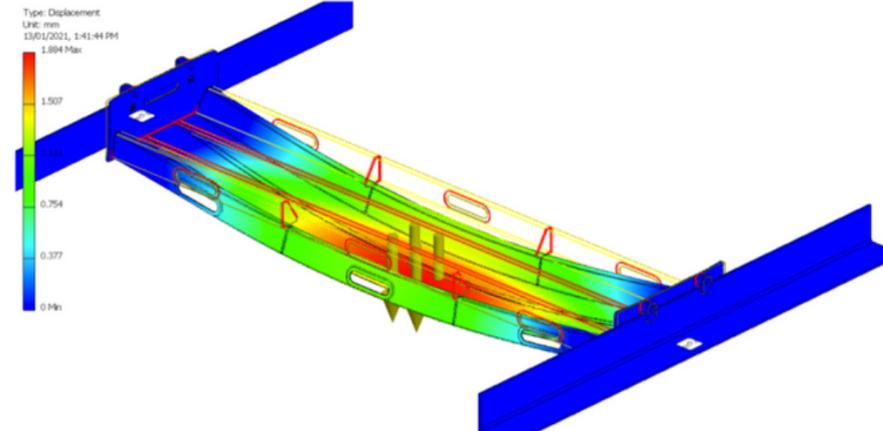
Custom Solutions

- Engineered solutions for your most challenging and complex problems.
- Team of in-house engineers with unparalleled experience in providing concept-to-completion solutions.
- We take pride in developing innovative solutions that enhance the safety, simplicity, and efficiency of current processes, embodying our vision of “working smarter not harder”.



TECHMINE SOLUTIONS

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Training

- Tailored training courses on the Techmine Lifting Equipment at our Facility in Perth or at a location of your choosing.
- We offer online training modules to domestic and international customers.
- Aimed to ensure optimized service life for Techmine products.

After Care Service

- All of our equipment is serviceable.
- We carry a full stock of spare parts.
- All parts are manufactured in Western Australia.
- We pride our self on a prompt turn around of your equipment to get it back in service.

**How can we
help you ?
Contact us @**



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