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# **3** / OPERATIONAL MAINTENANCE



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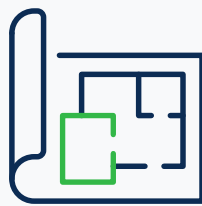
# OUR PROCESS FACILITATES YOUR SUCCESS

OUR SERVICES DELIVER CUSTOM SOLUTIONS, CERTIFIED AND COMPLIANT WITH AUSTRALIAN STANDARDS. DESIGNED, ENGINEERED AND CONSTRUCTED TO PROVIDE SAFE, EFFICIENT AND EASY MAINTENANCE ON-SITE.



## CONSULTATION

Our services deliver custom solutions, certified and compliant with Australian Standards. Designed, engineered and constructed to provide safe, efficient and easy maintenance on-site.



## DESIGN

We produce designs in our in-house CAD design division, as well as develop drafting documentation and models for your approval.



## ENGINEERING

We source materials, provide full engineering and certification including WLL, load ratings, integrity reports and certificate plates / identifications.



## CONSTRUCTION

We manufacture and include testing, machining, heat treatment, surface treatment and trial fit. Solutions can be delivered fully constructed to site if necessary to minimise down time.

# **3** INTELLIGENT DESIGN MEETS CUSTOM ENGINEERING

# MAKING MAINTENANCE PLANNING EASY

**WE'VE SUPPLIED FABRICATED  
ITEMS FOR HUNDREDS OF WORK  
ORDERS. LET US HELP WITH  
YOURS.**



We remove the hassle of maintenance planning, we'll come to site and measure or scope your work orders.



We provide you with confidence with ability to work to tight deadlines and ensure your production is on schedule.



Our talented design and engineering team can work from your drawings or we can redraw from 3D scans, sketches or site information.



**CHECK OUT SOME OF OUR PROJECTS FROM PAGE 10  
AND GET IN CONTACT WITH US TODAY**

# 3D SCANNING CAPABILITY

Our Leica RTC360 3D reality capture solution empowers us to document and capture areas of site or plant. Improving efficiency and productivity in the field behind the scenes through fast, accurate, and portable hardware and software. 3D laser scanning has enabled us to manage complex projects with ease and transform the way we solve problems and develop solutions.



## STAGE 1

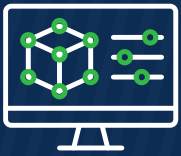
A customer requires an operational upgrade or replacement parts be designed and engineered. The first step is to visit the customer's site or workshop to meet the customer, understand the requirements and get 3D point scans of the area.



## STAGE 2

We take 3D point scans of the area and the required replacement or upgrade locations. These scans provide us with extremely accurate measurements which we use to develop designs and concept drawings.

# BUILT BETTER BY BEND-TECH



## STAGE 3

Once the drawings have been approved by the customer, we can move onto developing a set of production drawings. Once these are complete, fabrication begins.



## COMPLETION

The complete scanned, designed, engineered, and fabricated solution can now be delivered and installed/used in the required location. Operational maintenance made safe, efficient and easy.



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**1<sup>ST</sup> / LEVEL OF SAFETY**

THE OUTER DOOR IS FITTED WITH RUBBER SEAL TO REDUCE VIBRATION AND NOISE.

**3<sup>RD</sup> / LEVEL OF SAFETY**

THE CROSS SECTION IS THE LAST LINE OF A STRONG SAFETY SYSTEM, PREVENTING OPERATORS FROM FALLS.

**2<sup>ND</sup> / LEVEL OF SAFETY**

THE JAIL BAR DOOR PROTECTS OPERATORS WHEN THE OUTER DOOR IS OPEN FOR INSPECTION.

**ACCESS DOORS**

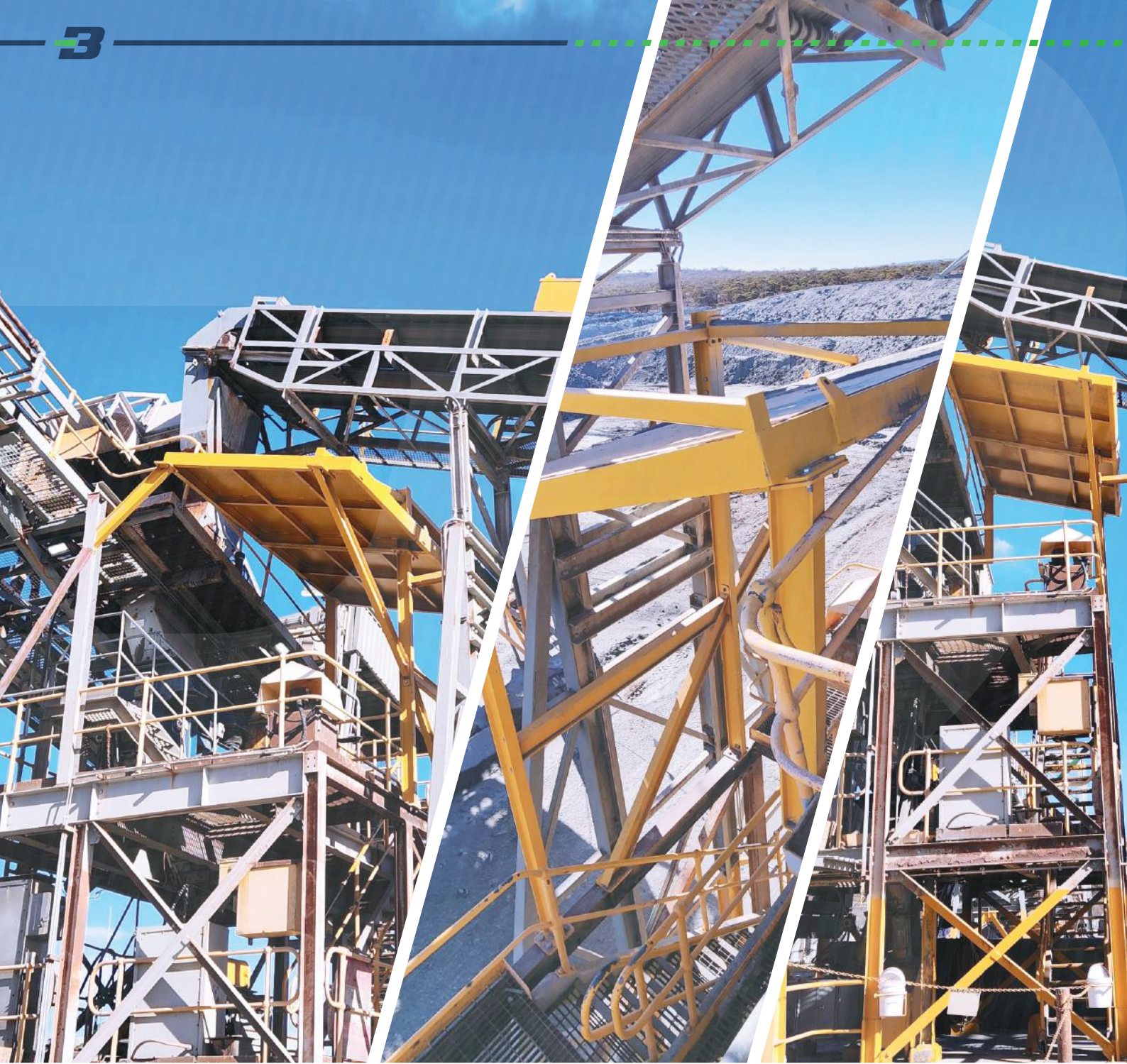


# CHUTES & HOPPERS

# PIPES & SPOOLS

SE 551  
LEVEL 5  
CHUTE 03  
Sendtech





# SHEDDERS

 **CERTIFIED COMPLIANT  
WITH AUS STANDARDS** 



**DESIGNED AND ENGINEERED TO  
SUIT YOUR SHEDDING  
REQUIREMENTS**



**MODULAR SYSTEMS AVAILABLE**



**CYCLONE RATED**



**FIXED SYSTEMS AVAILABLE**



**VEHICLE AND PERSONNEL  
PROTECTION**



**ABLE TO BE CUSTOM DESIGNED  
TO ATTACH TO EXISTING PLANT.**



# BOLLARDS



**FIXED AND MOBILE BOLLARDS**



**STANDARD RANGE OF SIZES AVAILABLE**



**CAN BE CUSTOMISED**



**SITE AND LOCATION SPECIFIC DEMARCATION**



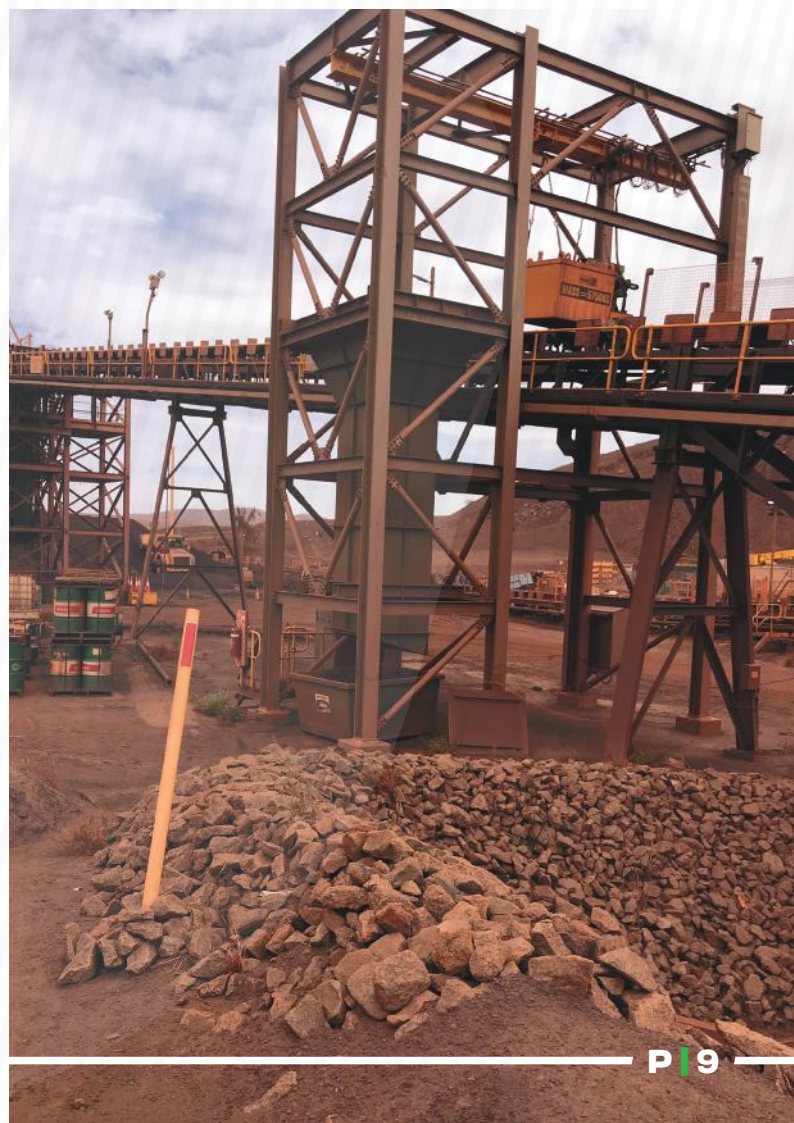
**HEAVY-DUTY STEEL FABICATION**



**B** / CERTIFIED COMPLIANT  
WITH AUS STANDARDS 



**HANDRAILS**





# GATES

# GUARDING



 **CERTIFIED COMPLIANT WITH AUS STANDARDS** 

## CASE STUDY:

# STEEL RACK CITY

**A RECENT VISIT TO A MAJOR PILBARA IRON ORE SITE HAD OUR TEAM AMAZED!**

On arrival it was impossible not to notice the seemingly endless lines of Bend-tech's steel racks in the yard. Custom designed steel pipe storage racks were stationed side-by-side on the Pilbara's red dirt, along with five flat plate racks to store the site's variety of steel pipes and plates safely and efficiently.

Materials need to be stored and organised safely on-site to reduce the potential of major incidents. Unsafe and uncertified storage can cause a number of significant risks. The common storage and racking problems include:

- No certification.
- Poor configuration.
- Lack of storage efficiency.
- No steel storage racking at all, leaving materials and the equipment on the ground.
- Wrong rack for the materials being stored.

These issues left unchecked could mean your current storage is significantly overloaded for its specifications, potentially placing operators and workers in the line-of-fire.

These are incidents that occur as a result of falling, swinging or erecting objects, which according to SafeWork Australia, lead to **34 fatalities in 2019** alone.

Unfortunately, it is still common to see unsafe and uncertified storage in the workplace.





Leaving materials and equipment on the ground also increases the risk of falls, slips and trips of a person, which accounted for **26,000 serious injury claims in 2019**. These statistics should be enough to **ensure that storage of materials and equipment is safe and certified**.

This is why we are seeing large sites such as this investing in certified storage solutions that are specifically designed for the materials in their inventory. It is just as important for smaller sites and workshops to invest in certified storage to mitigate the risks that are present.

**Bend-tech's** racking and storage solutions have been designed, engineered and tested to outperform specifications. Our products are certified and compliant with Australian Standards, providing high performance and quality outcomes.



**IF YOU HAVE ANY QUESTIONS ABOUT THE SUITABILITY OF OUR PIPE STORAGE RACKS FOR YOUR INTENDED PURPOSE, PLEASE DO NOT HESITATE TO CONTACT A BEND-TECH ENGINEER WHO WILL BE ABLE TO PROVIDE YOU WITH ADVICE AND GUIDANCE.**



**CASE STUDY:**

# METAL DETECTOR SERVICE WALKWAY

Scaffolds are a common cause of worksite injury in the mining industry due to a number of reasons:

- The requirement for extra non-company personnel on-site.
- Scaffold must be regularly inspected and is often not.
- Non-inspected scaffolding left in place for long periods, increasing risk of structural failure.
- Scaffold not in a form of permanent access or support.

Working at height continues to exist as one of the **highest-risk workplace activities accounting for 21 fatalities in 2019**, 11% of all workplace fatalities and second only to vehicle collisions.

A valued client from a site in WA's North West consulted the team at **Bend-tech** regarding a scaffold elimination strategy for a conveyor service area.

The service area was located about 10 metres high and previously required scaffold to access, which had very limited fall protection at the highest point. There was also nothing to stop unregistered site personnel from climbing to the top of the conveyor, adding further risk.

The walkway is designed to enhance fall protection by installing extra high, heavy-duty steel constructed handrails on top of a sturdy, fixed mesh to walk on, and an isolation gate at either side of the stairway. The handrails ensure that maintenance personnel can't accidentally fall off the top of the conveyor, while the padlocked gates can only be opened by registered site personnel.



The fixed walkway now allows maintenance personnel to safely access the key service areas above and below the conveyor, without the risk of faulty scaffold or unregistered personnel entering the area. The project was designed, constructed and installed on time and on budget.

This site is one of many taking steps toward eliminating scaffold and replacing it with fixed, or mobile certified access solutions.



**IF YOUR SITE REQUIRES A VISIT TO DISCUSS A SCAFFOLD ELIMINATION PLAN, GET IN TOUCH WITH OUR TEAM. LEARN MORE ABOUT OUR ACCESS SOLUTIONS AND HOW CERTIFICATION AND COMPLIANCE CAN ADD TO YOUR SITE.**

**CASE STUDY:****PRIMARY CRUSHER WORK PLATFORM PROJECT**

Shut down teams on-site in the Pilbara were working on their Primary Crusher with poor cover from the elements.

The area was also restricted given the amount of tooling, airlines, power cords and gas lines running through the work area. This was presenting slip, trip and fall hazards. Access to welders, power generators and air compressors was also restricted as these units had to be positioned on levels below work area or on the ground.

This previous set up also required temporary lighting and ventilation systems to be brought in and set up every shutdown, impacting maintenance efficiency.

The site got in contact with one of our consultants during a shutdown to discuss their problem. We went to site and viewed their photos and current working environment, although standards across the mine site needed some attention.

We scoped the area and its associated problems and consulted with maintenance personnel, crane operators, supervisors and superintendents to come up with a suitable solution to eliminate their issues.

This platform acts as a cover from the environmental factors such as sun, win and rain as well falling dust and debris.



The roof section while acting as a cover is also a load rated work platform which all welders, air compressors and gas bottles can be stored on.

All extension leads and lines are then run through two specified hatches in the platform floor to bring the necessary power and gas directly to the teams.

The platform sits on the existing crusher structure and provides a safe and demarcated handrail surround. Site personnel can hang their caddy welders from the underside of the platform whilst built in lights and fans provide extra worker comfort.

The platform can be loaded up from the ground with all required tooling and lifted into place by one crane rather than the 5-6 require previously. The work area is cleared considerably from tooling and slip, trips fall hazards whilst providing greater worker comfort.

The platform was delivered to site complete with assembly and installation manual. Maintenance on the primary crusher is now safe, efficient and easy.

Personnel working on the area of the plant are protected from the elements and have immediate access to tooling and ancillary equipment required to complete maintenance and associated shutdown works.





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Quality  
ISO 9001

SAI GLOBAL