



Your Project Our Focus
Results Driven Fabrication Services



Our entire fabrication process is designed to provide a competitive advantage for our clients.





Feed Hopper for a Lithium Fixed Plant 8T lined with 12mm Q and T Liners - Liners processed, studded and installed in house.



Head Chute for an Apron Feeder 8T - Lined with Chromium Carbide Welded Overlay Plate

Assembled Conveyor Trusses 22M Long ready for collection and installation on site

Our project focus and sense of urgency coupled with detailed planning and world class fabrication has facilitated increases in efficiencies and consistently delivered lower costs for our clients.

We understand your whole team is under pressure to deliver large projects. There is a lot at stake.

By understanding your objectives and asking the right questions at the start we ensure that problems are pulled up and rectified before we begin. This eliminates the risk of fabrication issues, on site dramas, installation issues and project time line blowouts.

Our mission is to understand your objectives so we can deliver your desired outcomes. We are committed to delivering in full, on time, and without incident by eliminating project risks.



South Flank Tie In Trusses Fabricated and delivered to site on time and on budget for our client's installation team.

Complete project clarity, right from the start.

Here is our 5 step process for delivering a successful fabrication project:

1. Complete Clarity

Definitive and direct. We pull up problems before commencing projects. We work with our clients to establish detailing and planning to achieve quality standards, avoid logistics pitfalls, and consistently hit project installation time lines. Our team is adept at innovative approaches to problems and we believe consistent risk management is critical to project success.

2. Intelligent Drawings & Project Planning

Intelligent drawings are at the cornerstone of every efficient fabrication project. We can either work directly with our clients to ensure detailing is fabrication ready or start from scratch to create complete fabrication drawings and tailored project management right from the start.

3. Process Driven Fabrication


We execute large scale fabrication using proven processes that deliver quality components time and time again. Our project management system creates transparency each step of the way. Our 80 Tpw fabrication capacity in conjunction with proven in house systems helps us deliver our promise of project completion - **DIFOT - Delivered in full and on time.**

4. Integrated Logistics

Our vertically integrated fabrication service structure allows a cohesive project experience from start to finish. Many fabricators just want to get your job out the door. Allspec is different. We're not happy until the project is completed to spec, delivered and there's ore on the belt.

5. Full Spectrum Quality Control

Quality assurance is at the cornerstone of every Allspec project. Accuracy, reliability and longevity of each component requires tight QC that will generate quality outcomes for our clients into the future. We believe good quality should be transparent. Our QA process is backed by comprehensive project communication allowing for a high level of traceability.



All this leads to world class quality and our clients delivering another successful project.



Trusses

Fabricated and delivered to site on time and on budget leading to another successful project for our client.

Our success is built on the foundation of asking the right questions from the start.

By understanding your objectives, we can help you achieve them with maximum ROI.

Allspec is a world class ISO9001 certified steel fabricator that takes charge of the projects value chain to make sure your goals are delivered in full and on time.

Once we identify the objective, we prioritize and execute. We achieve this by starting quickly and minimizing waste.

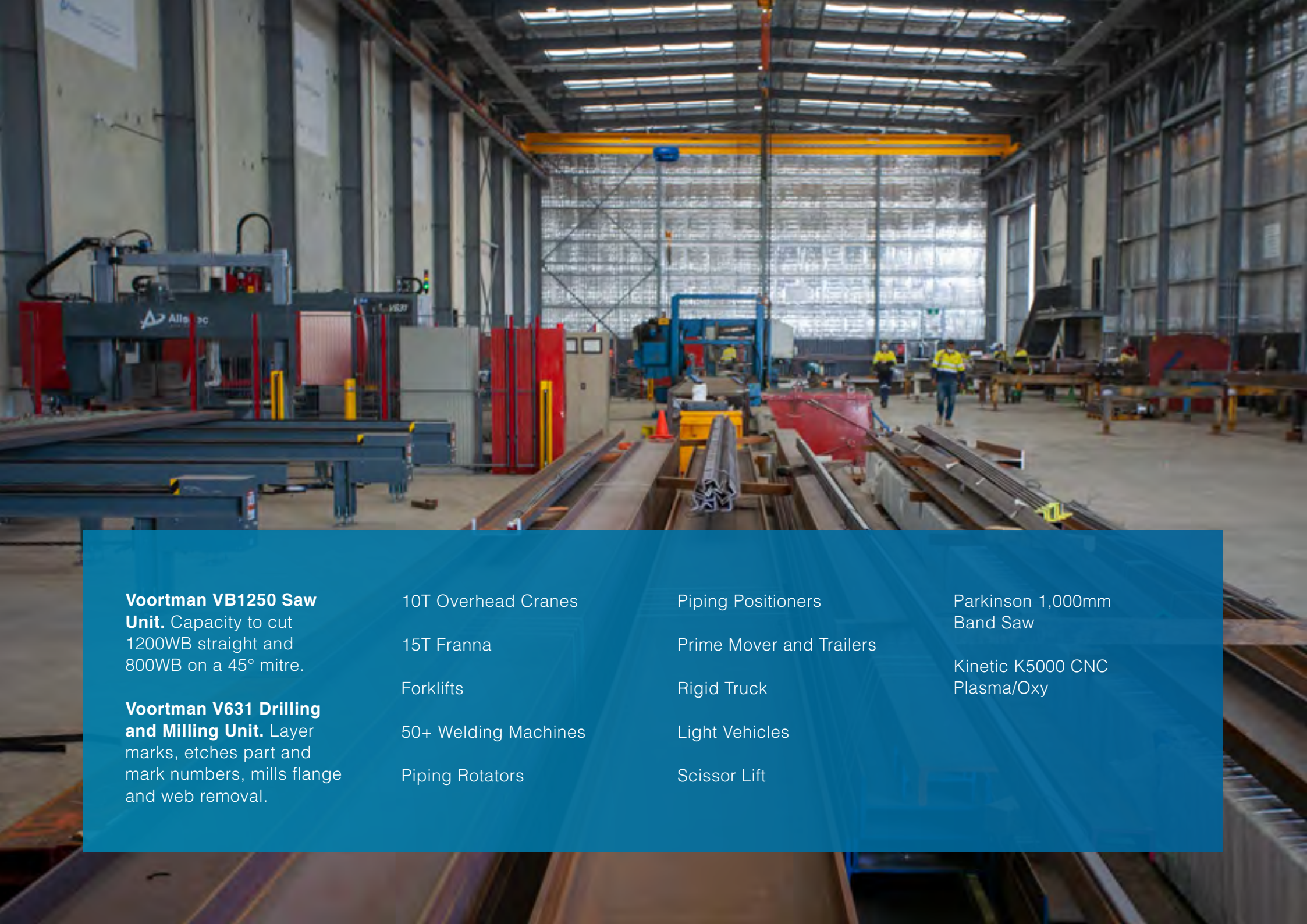
Combined with our can-do attitude and innovative approach, we help you reach your objectives faster.



Allspec's Fabrication Superstar Team

1. **Effective Communication** - *Always Ask*
2. **Efficiency** - *Prioritize*
3. **Agility** - *Execute With Purpose*
4. **A Can Do Attitude** - *Never Give Up*
5. **Innovation** - *Think & Investigate*





Voortman VB1250 Saw Unit. Capacity to cut 1200WB straight and 800WB on a 45° mitre.

Voortman V631 Drilling and Milling Unit. Layer marks, etches part and mark numbers, mills flange and web removal.

10T Overhead Cranes

15T Franna

Forklifts

50+ Welding Machines

Piping Rotators

Piping Positioners

Prime Mover and Trailers

Rigid Truck

Light Vehicles

Scissor Lift

Parkinson 1,000mm Band Saw

Kinetic K5000 CNC Plasma/Oxy

In-House Performance

Our vertically integrated supply chain ensures complete control and transparency throughout the entire project, from detailing through to delivery.

We execute integrated engineering solutions resulting in efficiencies for projects and adding value for our clients.

Currently operating an average 120 Tonnes per week fabrication capacity, our project managers and administration team is always looking for lower-cost solutions while maintaining quality for our clients to deliver long term value.



Drilling, Milling, Marking and Sawing. Not your average Beamline.

The most obvious advantage of a back-to-back (or close-coupled) drill/saw line is increased efficiency and productivity.

The entire raw profile only needs to be measured once, processing in one operation and increasing throughput.

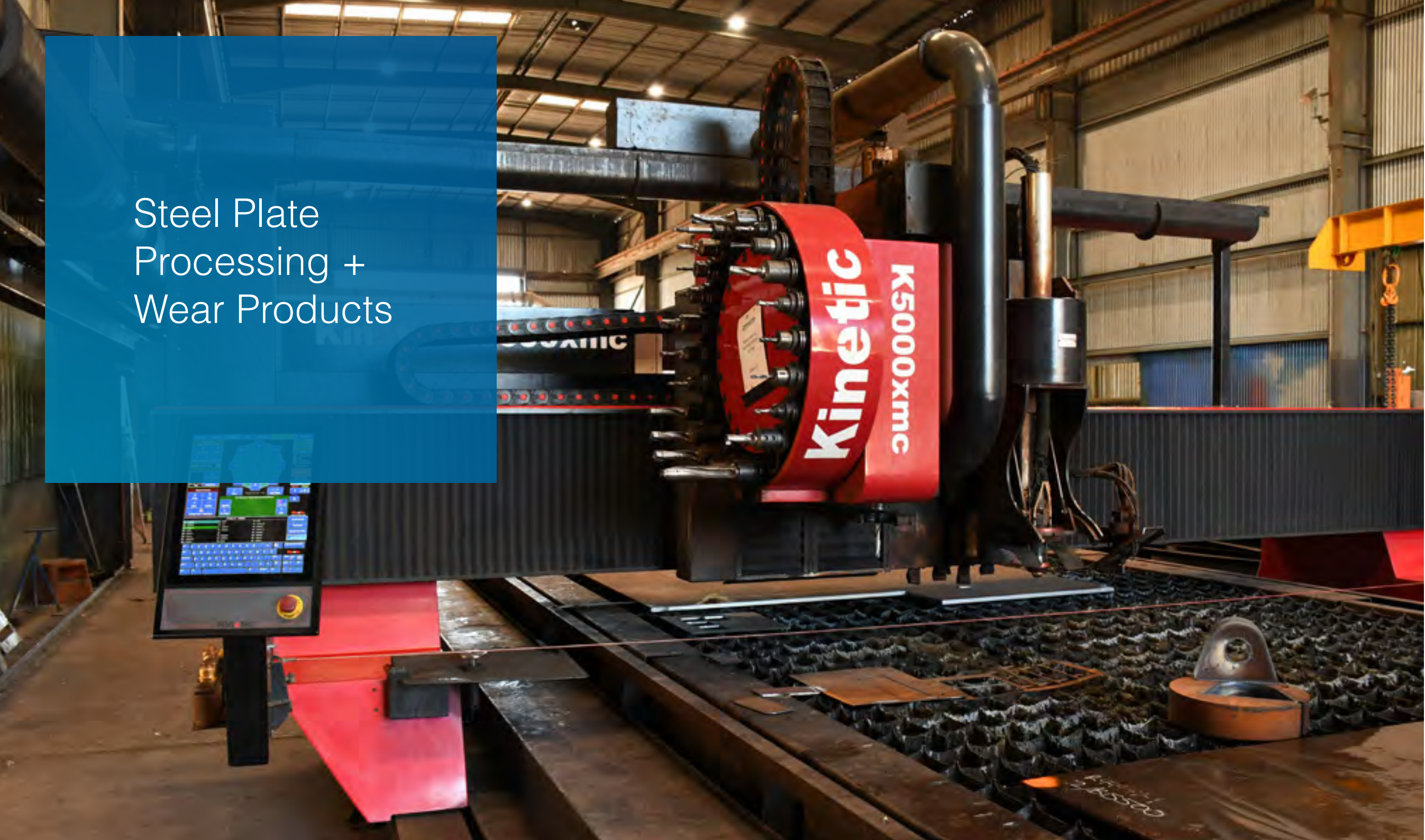
Operations are ordered to produce the highest productivity and shortest movement paths during processing. Finished products can be sorted based on length, product name or further processing requirements.



Precision cutting and drilling of 1200WB455 - 1,200mm wide x 500mm high (the largest available in Australia)



The VB1250 Saw and V631 Milling and drilling unit reduces man hours per tonne. This has increased Allspec's tonnage output per week to over 100T per week whilst improving quality.



Steel Plate Processing + Wear Products

Speed, Cost Efficiency & Accuracy

Use our expertise to deliver a smooth project from the initial contact through to accurate plate and wear products, to packing & convenient delivery.

Plasma Plate Cutting & Processing

Wear Resistance Plate & Products

Structural Steel
Grade Plate

Abrasion Resistant Quench
& Tempered Wearplate

Chromium Carbide Welded
Overlay Plate - CCO

Large Scale Production
Capability

Proactive Customer
Communication

Convenient Site
Delivery

Mining Industry


Construction Industry

Oil & Gas Industry

Earthmoving Industry



Complete In-House Capability



Steel Plate Plasma Cutting & Thermal Cutting

We deliver fast and accurate plasma cutting and oxy fuel cutting services.

- Plasma cutting up to 50mm thick
- Oxy Fuel cutting up to 250mm thick
- Plasma Beveling
- Cutting Area 3,200mm x 24,000mm
- Grades in stock: 250GR, 350GR, 250GR Floorplate, BIS400, BIS450, BIS500, HARDOX450, HARDOX500
- Other materials readily sourced



Steel Drilling, Tapping, Boring & Milling

Laser accuracy for cutting, drilling & milling to your specifications.

- Drilling up to 50mm hole
- Tapping
- Milling
- Counter Sinking
- Counter Boring
- Chamfering
- Hole Interpolation



Wear Liners & Wear Resistant Products

Industry standard wear-resistant materials to protect and extend the life of your assets precisely cut to your exact specifications.

We use and recommend Bisalloy and Hardox material. It's always in stock and we can cut, drill, and countersink with supreme accuracy and speed. We also studweld liners.

From simple stock standard wear products to detailed engineered liners that require absolute accuracy and hole placement, anything can be achieved.

Additional Services

- 2D CAD Drawing & DXF file Development
- Part ID Marking
- Etching
- Hard Stamping
- Bevel Cutting
- Machining
- Drilling
- Countersink / Counterbore
- Tapping
- Milling
- Stud Welding
- Pressing
- Roll Forming

Allspec Engineering For Mining Companies

We help maximise plant productivity by focusing on the rapid delivery of quality fabrication that fits first time.

Primary and Secondary Crushing Spares

- Rom Beams • Rom inserts
- Bin Liners • Grizzly Spares
- Apron Feeder Structures
- Grizzly Cassettes
- Crusher Feed Chutes
- Transport Frames

Rotable Chutes Dry Plant & Wet Plant

- Head Chutes • Transfer Chutes
- Impact Baffles • Trommel Chutes
- Screen Oversize Hoods • Hoppers
- Impact Boxes • Rubber Lined Boxes • HPGR Chute • Cyclone Clusters / Launderers • Transport Frames

Rotable Process Piping

- Process Water / Lube Spools
- Rubber Lined Spools / 3D Bends
- Ceramic Lined Spools / 3D Bends
- Polyurethane Lined • HDPE Spools

Wear Liner Packages

- Detailing • Liner Change Management • Quench & Tempered Liners • Welded Overlay Plate Liners • Cast (Nihard) Liners Packages
- Billets & Rock Ledges
- Ceramic Liners • Fabricated Lining Packages • Inserts • Packaged to suit efficient install (packaged per liner layout)

Reclaiming & Train Load Out Spares

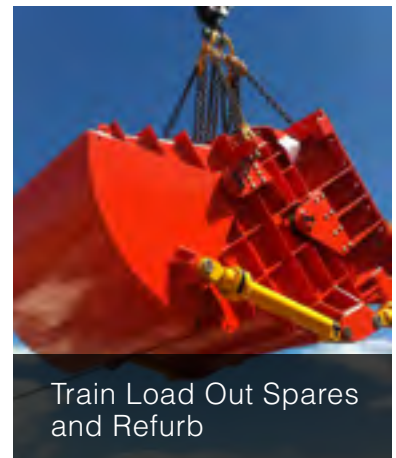
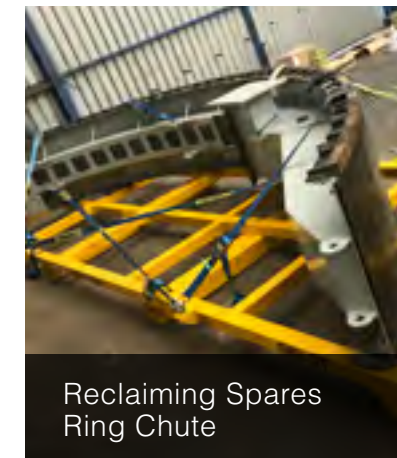
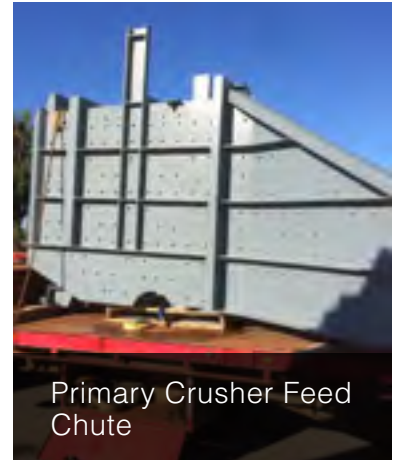
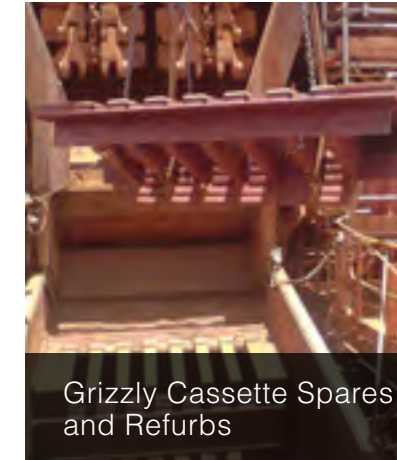
- Bogie wheels • Reclaimer Bucket Wheels • Reclaimer Buckets
- Ring Chutes • Spill Faces
- TLO Bin Liners • TLO Chutes - Fixed, Swing, Trim & Clamshell
- Transport Frames

Brown Field Project Supply

- New Buildings • GTU Towers
- Counterweights • New Process Hoppers • Stockpile Vault Hoppers
- Vault Liners • Transfer Chute replacements • Chute Upgrades
- New Process Piping Supply
- Conveyor trusses • Conveyor Walkways • Grating and Handrails
- Pipe Bridges • Tanks
- Non-Process Infrastructure

Non-Process Infrastructure

- MEM Workshops • Heavy Vehicle Wash Bays • Light Vehicle Wash Bays • Sumps and Cast in Steelwork
- Diesel Storage Facilities
- Diesel Piping • Safety Devices
- Barricading Pods • Bollards
- ANFO Storage Facilities
- Storage Sheds



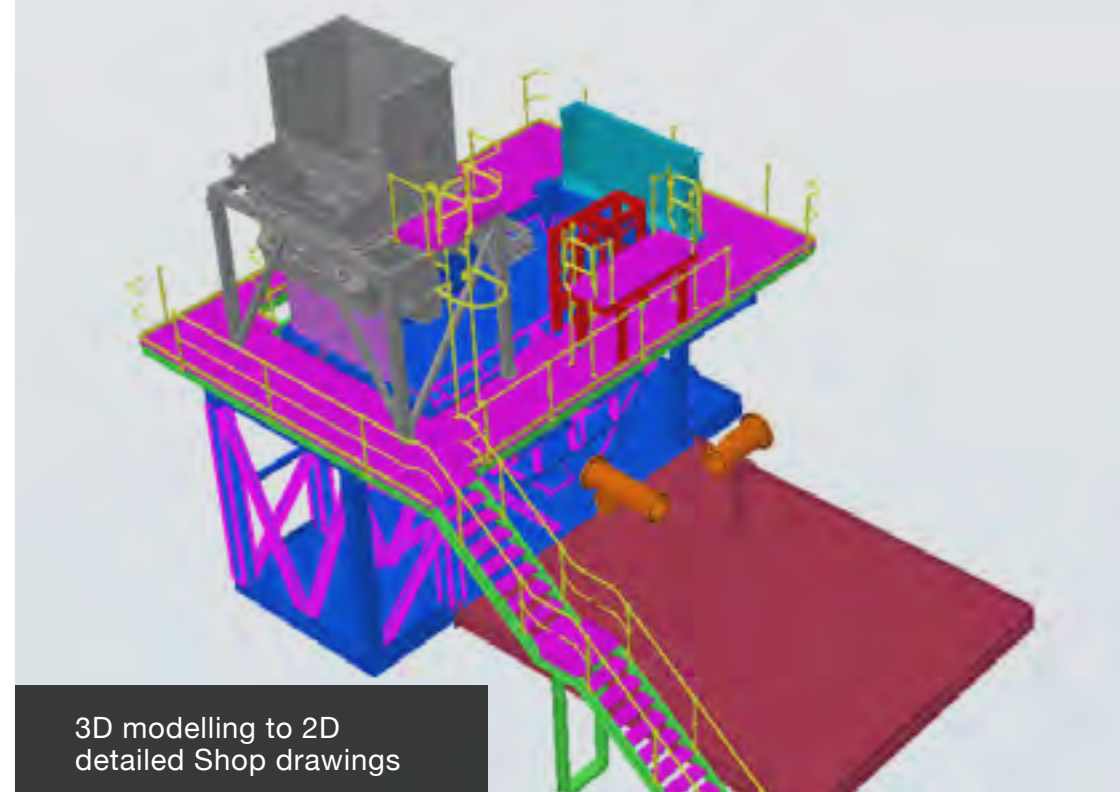
Case Study:

Turn Key Project Management: **Gold Mine Fines Repulping Hopper**

Completed on a very tight schedule for
a critical shutdown.

As a result, our client can operate the fines
repulper during a shutdown to maintain
throughput while maintaining other parts of the
fixed plant.

Allspec Engineering coordinated the shop
detailing, fabrication, NDT, trial assembly, surface
treatment, rubber lining and delivery to site.



3D modelling to 2D
detailed Shop drawings



From model to
fabrication in 1 Week



Rubber lined, expediting and
rigging gear installed



Delivered in full
and on time

Our dedicated Project Managers and workshop
team worked 13 day fortnights and a project
specific night shift to achieve this goal. In our
peak we had 60 tradesman dedicated to this
project.

All structural steelwork and chute fabrication
was completed to AS/NZS1554.1 and all piping
was completed to AS4041 under control of our in
house AS1796 + AS2214 welding supervisor.

Trial assembly was completed using our qualified
riggers and crane operators at our Henderson
facility. The OEM screen and pump was also trial
fitted to ensure design was sound.

Majority of the rigging gear was installed on the
finished steel work by our riggers prior to dispatch
to reduce working at height risks to personnel
unloading the trailers on site.

A total of ten semi trailers were dispatched for the
successful delivery of this project. All trailers were
on time and in order of construct-ability sequence
to ensure timely unloading and streamlined
installation.

Allspec Engineering For Tier 1 Contract Engineers

We work with engineers to deliver their desired outcome by focusing on world class fabrication and project clarity, right from the start.

We deliver on time, so you're never late.

Fixed Plant Structural Steelwork

- Stick Steel • Overland Conveyor Modules • Conveyor Trusses
- Conveyor Trestles • Screen Surge Bin Structures • Crushing Surge Bin Structures • Tripper Assemblies
- Screenhouse Shuttle Assemblies
- Belt Feeder Frames
- Apron Feeder Frames

Fixed Plant Platework

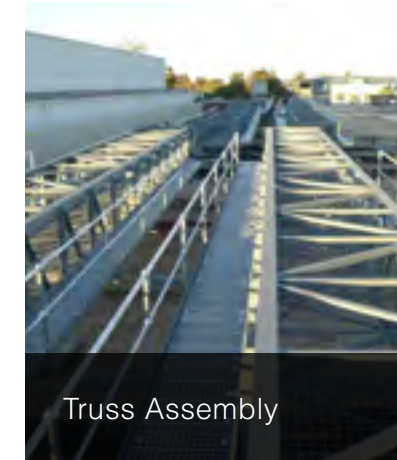
- Cast in Wear Packages
- Head Chutes • Transfer Chutes
- Impact Baffles • Trommel Chutes
- Sample Station Chutes
- Screen Oversize Hoods • Hoppers
- Impact Boxes • HPGR Chute
- Rubber Lined Boxes • Cyclone Clusters / Launderers • Storage Tank Strakes • Fabricated Tanks – Storage and Mixing • Specialty Transport
- Transport Frames

Fixed Plant Process Piping

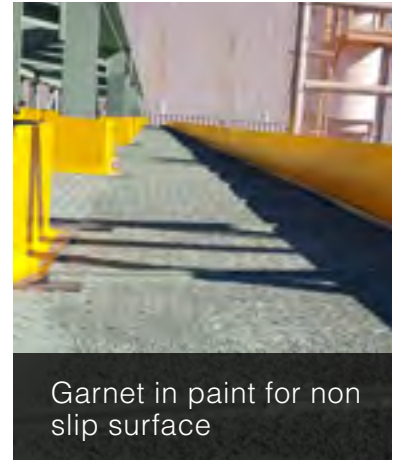
- Process Water / Lube Spools
- Rubber Lined Spools / 3D Bends
- Ceramic Lined Spools / 3D Bends
- Polyurethane Lined • HDPE Spools

Non-Process Infrastructure

- MEM Workshops • Heavy Vehicle Wash Bays • Light Vehicle Wash Bays
- Sumps and Cast in Steelwork
- Diesel Storage Facilities • Diesel Piping • Safety Devices • Barricading Pods • Bollards • ANFO storage Facilities • Storage Sheds



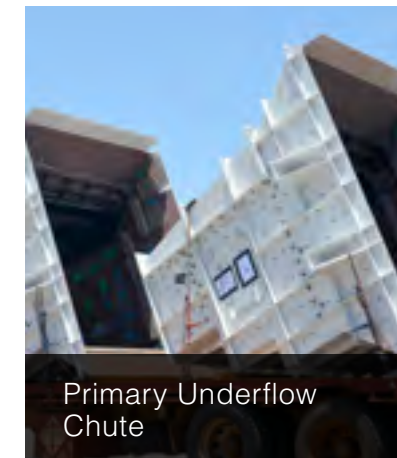
Truss Assembly



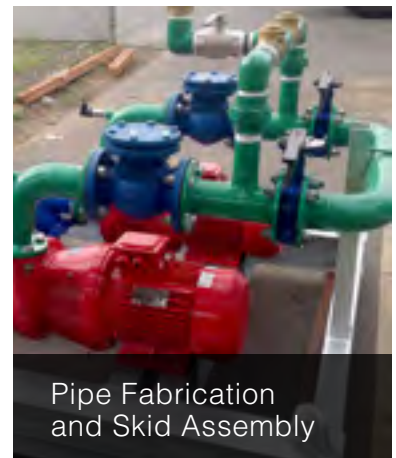
Garnet in paint for non slip surface



30M Pipe Bridge



Primary Underflow Chute



Pipe Fabrication and Skid Assembly

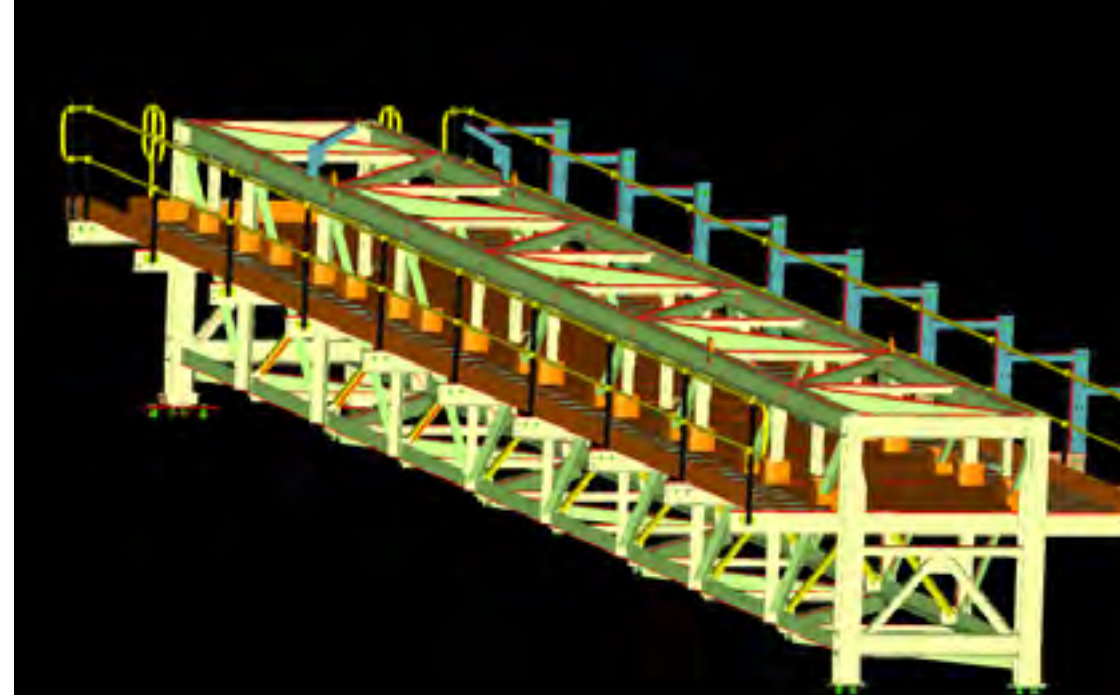
Case Study:

66T South Flank Tie In Trusses

Completed on schedule and on budget
delivering a critical section of mine
infrastructure for our client.

Due to the size and width of the trusses, TQ's
were required to determine best slice locations
for all the main chord sections and chequer plate
flooring.

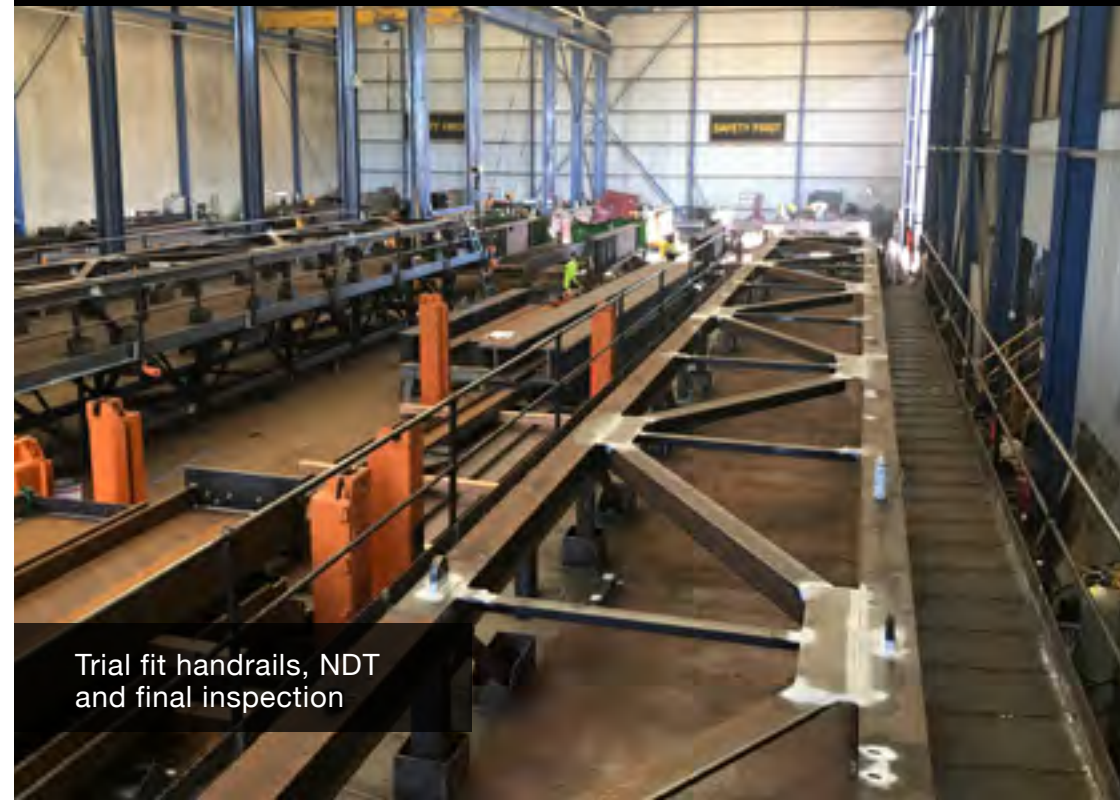
Clearly written technical queries sent to our client
at the very start of the process saved a lot of time
and avoided costly delays.



3D modelling to 2D
detailed shop drawings



Loadout to surface
treatment



Trial fit handrails, NDT
and final inspection



Painted in four different paint
systems as per client specifications.

Choosing the correct welding processes, positions
and welding pattern reduced distortion of the floor
and square bar joints, reducing the need for post
weld straightening. This made the process quicker
and removed any unnecessary labour.

Specialist lifting gear was required in order to
protect the lifting lugs from side loading. This
all had to be communicated, witnessed and
managed down at our sub-contractor's paint
facility.

Fabricated in accordance with AS/NZS 5131 and
welded in accordance with AS/NZS 1554.1 SP.

Fully assembled prior to dispatch.

By understanding the end user's needs we helped
achieve an economical and time efficient outcome
while delivering the strength and durability
required by the engineers. We had a happy client
and happy end user.



Allspec Engineering For Original Equipment Manufacturers (OEM's)

We help OEM's deliver world class mining equipment by focusing on discrete project management, clear communication & tight quality control.

We deliver on time, so you're never late.

Material Handling and Crushing/Grinding

- Apron Feeder Structures • Apron Feeder Pan & Chain Assembly
- Belt Feeder Structures • Belt Feeder Assembly - Idler Frames and Idler Installation • Knife Gates
- Knife Gates Frames • Feed Hoppers • Hungry Boards & Skirts
- Head Chutes / Feeder Covers • Ball Mills • Sag Mill Feed Chutes / Spouts • Belt Filter Distributors • Pulleys

Reclaiming and Train Load Out Spares

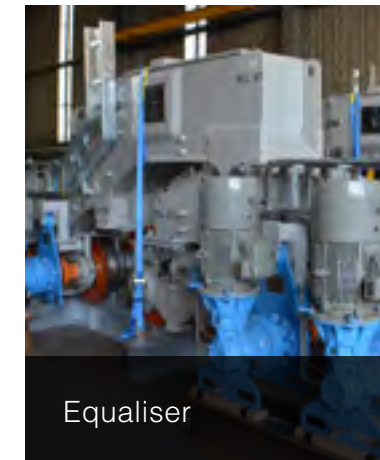
- Bogie Wheels • Reclaimer Bucket Wheels • Reclaimer Buckets
- Ring Chutes • Spill Faces
- TLO Bin Liners • TLO Chutes - Fixed, Swing, Trim & Clamshell
- Custom Transport Frames

Tanks

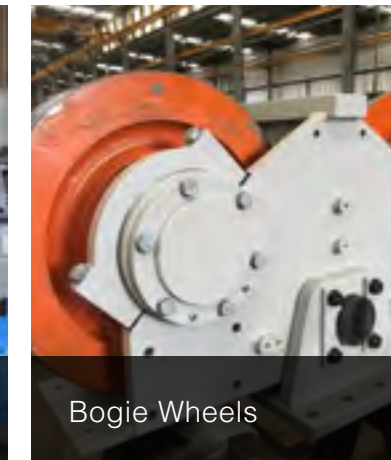
- Storage Tanks • Mixing Tanks
- Rubber Lined Hoppers
- Stair Towers • Pipe Bridges
- Rake Arms • Process Piping

Specialty Tooling and Lifting Devices

- Design - Detail - Load Test - Lifting Beams • Custom Transport Frames
- Forklift Jibs • Removal Tools
- Jacking Frames • Jacking Bases
- Belt Winders • Access Platforms for Maintenance • Pin Pulling Jigs



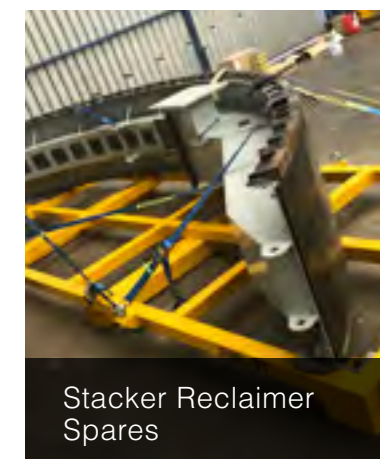
Equaliser



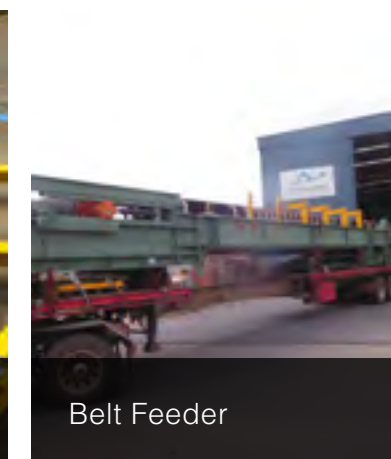
Bogie Wheels



Rotable Chutes



Stacker Reclaimer
Spares



Belt Feeder

Case Study:

Yandi Dry Plant Upgraded Belt Feeder

18T ASSEMBLED

18.5m LONG

4.3M WIDE

Belt Feeders need to be straight! This frame was built in four different sections due to the design, changing heights and widths of the feeder. Only the tie in points were positionally welded. Allspec completed the precision fabrication, pre and post machining survey and mechanical fitout.



Precision fabrication on onsite machining for drive pulley



Mechanical assembly and belt splice completed



Reducing site hours by installing idlers and frames offsite



Delivered to site in full and on time

Thinking of our clients needs, we queried the need for bolt on lifting lugs for site unloading and install. These were caught before surface treatment had started, keeping the cost to a minimum.

The upgraded belt feeder was fully assembled prior to dispatch to reduce any onsite confusion and time delays. The project went very smoothly with a happy client and happy end user.

By understanding the end user's needs we were able to suggest and implement improvements that led to substantial cost savings and a shorter delivery time for our client.



Allspec Engineering For Mine Construction

We help Construction Companies deliver successful infrastructure projects by focusing on world class fabrication and project clarity, right from the start.

Fixed Plant Structural Steelwork

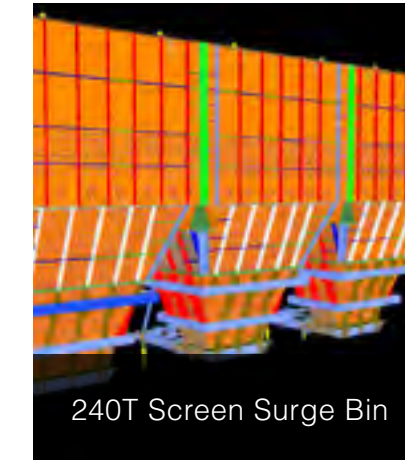
- Stick steel • Overland Conveyor Modules • Conveyor Trusses
- Conveyor Trestles • Screen Surge Bin Structures • Crushing Surge Bin Structures • Tripper Assemblies
- Screenhouse Shuttle Assemblies
- Belt Feeder Frames
- Apron Feeder Frames

Fixed Plant Platework

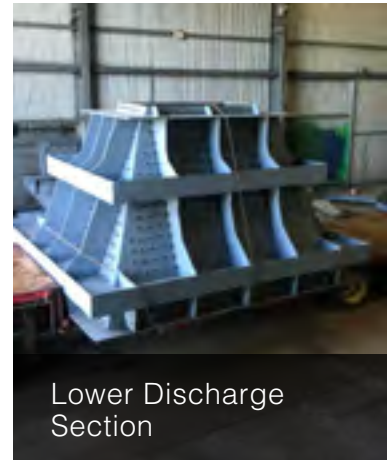
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- Cyclone Clusters / Launderers
- Storage Tank Strakes
- Fabricated Tanks – Storage & mixing • Specialty Transport
- Transport Frames

Non-Process Infrastructure

- MEM Workshops • Heavy Vehicle Wash Bays • Light Vehicle Wash Bays • Sumps and Cast in Steelwork • Diesel Storage Facilities
- Diesel Piping • Safety Devices
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- ANFO storage Facilities
- Storage Sheds



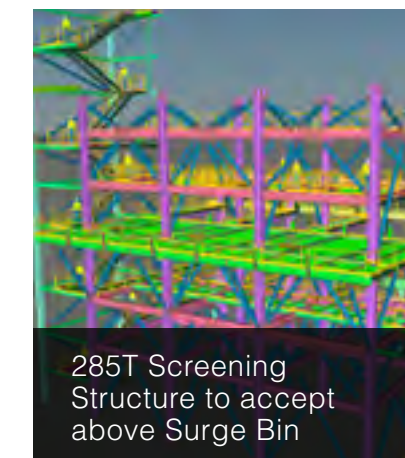
240T Screen Surge Bin



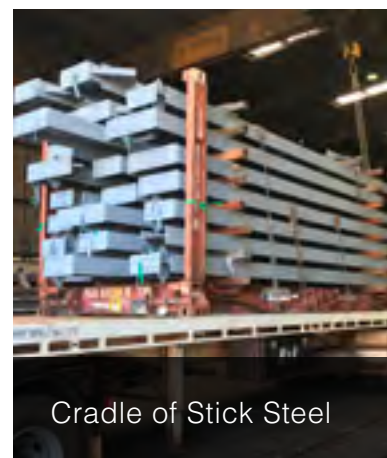
Lower Discharge Section



Main Toblerone Section
- One of four supplied



285T Screening Structure to accept above Surge Bin



Cradle of Stick Steel

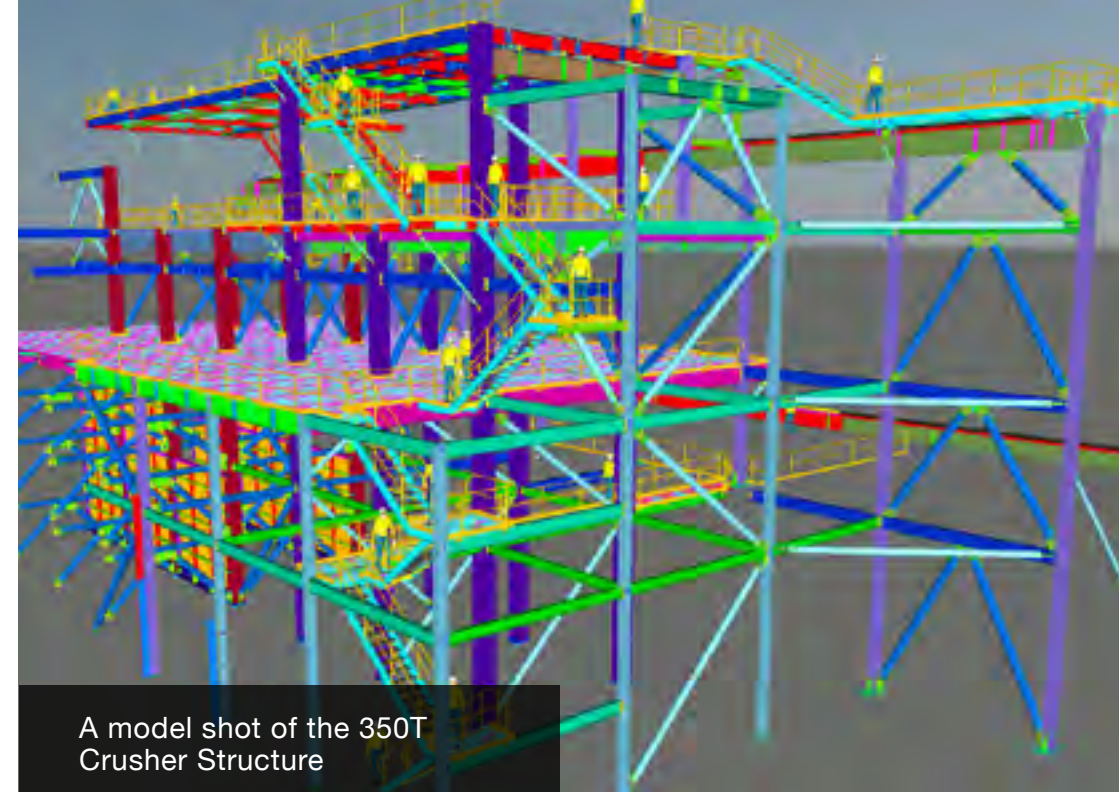
Case Study:

Wodgina Crusher Structure

350T delivered in 8 weeks

While structural steel is not the most complex of fabrication works, it does rely on economy of scale, capacity and efficiency.

Asking our client the right questions at the start of the project enabled efficient and expedient project management to get the desired outcome. With such a tight timeline and specific quality requirements, open communication between our managers and the client made for a smooth operation.



A model shot of the 350T
Crusher Structure



Hungry Boards - 8T each



18M Long Shuttle Rails for
Crusher Structure



Delivered to site in full and on time

Our client needed this package delivered in-line with their specific construction methodology. Working with our client, Allspec were able to prioritize and execute to spec.

We understand the importance of efficiency. Allspec was able to achieve notable cost savings during the fabrication process and hitting the delivery target created an easier than expected installation on site. This validated the clients decision to steer away from overseas fabrication.

Even the delivery details where prioritized with cradles packed with nothing but Jarrah Hardwood gluts with carpet to protect the paint.

Another successful project delivered in full and on time.

Case Study:

Truss Project

200 LM, 232T of trusses fabricated and assembled

10 modules + 3 Trestle Leg Assemblies were fabricated to streamline transport and allow efficient on-site installation. All modules were dressed out with idler frames, idlers, grating handrails and guards.



10 modules + 3 Trestle Leg Assemblies



Largest section 32m x 5m x 5m @31T



10,000 Hours over 18 weeks

The largest section of 32m x 5m x 5m @31T was completed at Allspec Engineering’s new facility in Hope Valley. The large space provided easy access to critical sections, a safer working environment and made it easier for quality assurance.

Our growing workforce operated 24/7 over the projects duration to meet critical path install dates.

Another successful project delivered in full and on time.

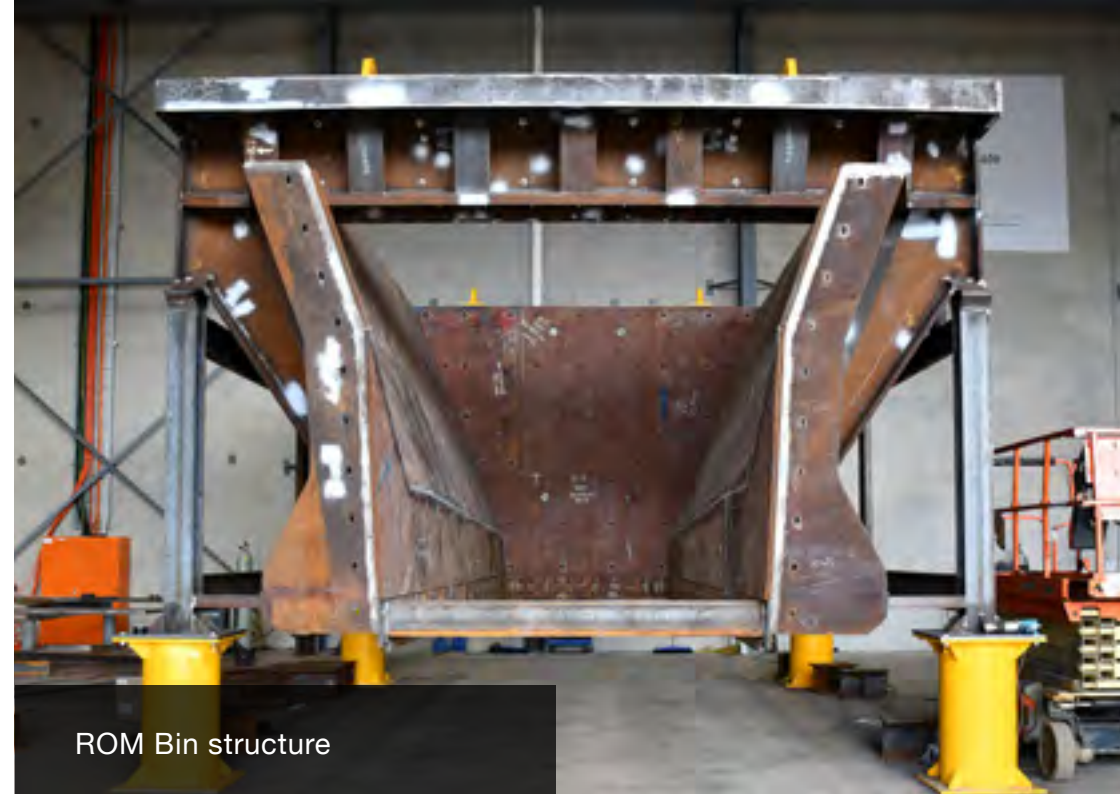
Case Study:

Rom Bin Project

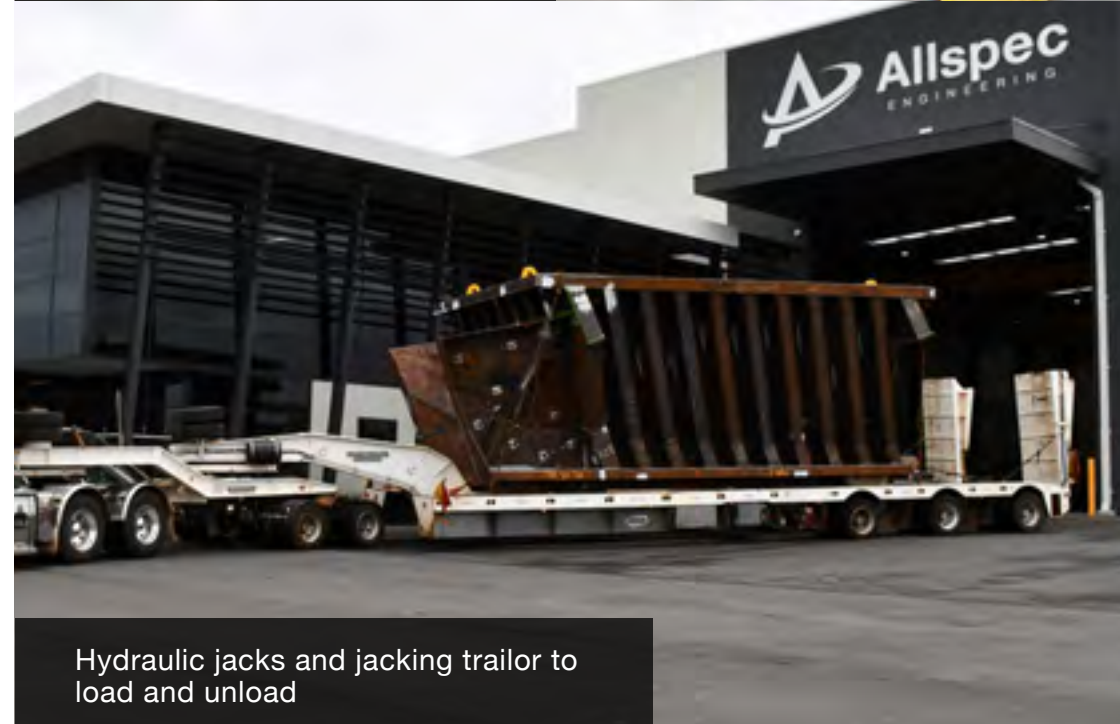
100T Crushing Rom Bin

Had to use Hydraulic Jacks and Jacking Trailer to Load and unload.

Primary Crushing Apron Feeder Chute – 48T. Two upper sections weight 26T each



ROM Bin structure



Hydraulic jacks and jacking trailer to load and unload



COS Vault Bin Liners



Site delivery for the installation team in the Pilbara, Western australia

Case Study:

Coarse Ore Stockpile Vault Bin Liners.

166 tonnes of Quench and Tempered plate

Our client needed an accelerated schedule to meet the shutdown date. All of the Iron ore stockpile above the apron feeder had to be cleared in order for the liners to be installed into the Vaults. The shutdown date could not be moved and delivery on time was paramount. **We quickly turned up the heat and planned our way to a positive outcome.**

Aallspec Engineering completed 166 tonnes of Quench and Tempered plate with mild steel stiffeners. The liners were delivered to an Iron Ore Minesite in the Pilbara, Western Australia.



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