



ALFABS

SAFETY | QUALITY | DELIVERY

**PRODUCT
CATALOGUE
2021**



One Stop Shop Solution.



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ALFABS GROUP OF COMPANIES

Introduction

The Alfabs Group are committed to continuing their reputation of providing a professional service while maintaining personalised service and relationships with our clients.

Safety, Quality and Delivery are the three key objectives to The Alfabs Group and are integral to ensuring we continue to service our valued clients in a professional and ethical manner.

We understand the importance of not only meeting but exceeding industry standards and continue to strive for continuous improvement and excellence in all areas of business.

The Alfabs Group are committed to our Corporate Social Responsibility (CSR) and strive to achieve targets for Social Procurement and Aboriginal Participation. Alfabs Group provides opportunities for indigenous personnel, youth and women in non-traditional roles including disadvantaged and underrepresented groups.

Across all divisions Alfabs Group strive to be the number one organisation in providing your project solutions for Safety, Quality and Delivery with One Stop Solution approach.

Our Services



Engineering

Heavy engineering including structural steel, detailed pipe and duct work, coal conveyor and storage projects.



Logistics

Our fleet of transport vehicles working for our many customers and forming part of our “One Stop Shop” solution.



Protective Coatings

Abrasive blastings and protective coatings including metals and mobile plant and equipment.



Services

Delivering a wide variety of onsite services across sectors such as mining, energy, infrastructure and construction.



Mining

Supply, manufacture, service, parts and repair and various mining equipment and consumables.



Equipment Hire

With a hire fleet of over 500 pieces of equipment such as EWP's, Boom Lifts, Scissor Lifts, Telehandlers and Mining Equipment.



ALFABS

SAFETY | QUALITY | DELIVERY



The Welcome to the Alfabs Group and Best Wishes for 2021

2020 represented a year of unprecedented challenges. It was a year like no other where we faced lock-downs, health screening, home offices and a new set of rules with respect to how we work and live.

While the year presented significant challenges, I am pleased to say that the Alfabs Group of Companies continued to grow and succeed in the midst of the global chaos. Some key milestones were achieved during the year, including:

- Delivery of the Alfabs Signature Project - Central Station Northern Concourse Roof.
- Expansion of our Site Services capabilities and delivery of key infrastructure projects .
- Continued Growth from our Hyundai Forklift Franchise.
- 300% Growth in our Mining Diesel Field Service Capabilities with future growth expected in the first quarter of 2021.
- Expansion of our Underground Mining LHD fleet with a further 6 LHD's.
- Record Monthly Mining hire fleet revenues with future growth for 2021.
- Month on Month Stores Growth and capacity upgrades.
- Securing of several key Forward Purchasing Arrangements with large Mining Organisations.
- Expansion of our Underground Equipment Overhaul capabilities forming a Joint Venture with Ampcontrol.

Alfabs is fortunate to have a number of key people in key roles to help forge this growth into 2021, however we are most fortunate to have the support of you, our key customers.

With a number of mining operations scaling back production while others expand into new areas, it is both an interesting and exciting time to be part of the mining industry.

Alfabs appreciate and value your support over the 2020 year and look forward to assisting you further in 2021 with our "One Stop Shop Solution".

Thank you again for your continued support.

Matthew Torrance
Alfabs CEO

“One Stop Shop
Solution.”

The Family

Alfabs Group are a well-established heavy engineering company with a vast array of experience in Engineering Fabrication along with products and services including Protective Coatings, Mining, Equipment Hire, Transport and Logistics, Construction Tools and Spare Parts and Warehousing. Throughout the years Alfabs Group has had a close association with the mining, infrastructure, energy and construction industries.

Originally formed in the 1950's as Alfabs Engineers, the company has been owned and operated as a family business since 1986 and remains under the direct management of the family owners. Alfabs Group are committed to maintaining their reputation of providing professional services while maintaining personal service and relationships with their clients. These commitments were the ideas behind forming our motto.

Alfabs employ some 200 employees over several business locations including our Head Office and various workshops at Kurri Kurri (Hunter Valley, NSW) along with branches/workshops in both Wollongong, NSW and Mackay, QLD.

With the entire suite of products and services offered by the Alfabs Group, you are dealing with a "One Stop Shop" solution.

- MINING
- ENGINEERING
- SERVICES
- FORKLIFT & ACCESS
- SPARE PARTS & WAREHOUSING
- TRANSPORT & LOGISTICS
- PROTECTIVE COATINGS
- BLASTING



Health And Safety Management

The Alfabs Engineering Group Pty Ltd take their responsibility towards legislative requirements seriously. Alfabs Engineering Group Pty Ltd have full accreditation in the AS/NZS 4801:2001 OH&S Management System. The implementation of the Zero Harm campaign has assisted in the Alfabs Group forging a healthy safety record across all business units.

The Alfabs Group places the utmost importance in ensuring the Health and Safety of its people. To achieve the stated objectives Alfabs has developed and implemented a comprehensive Safety Management System to manage its Health and Safety, responsibilities.

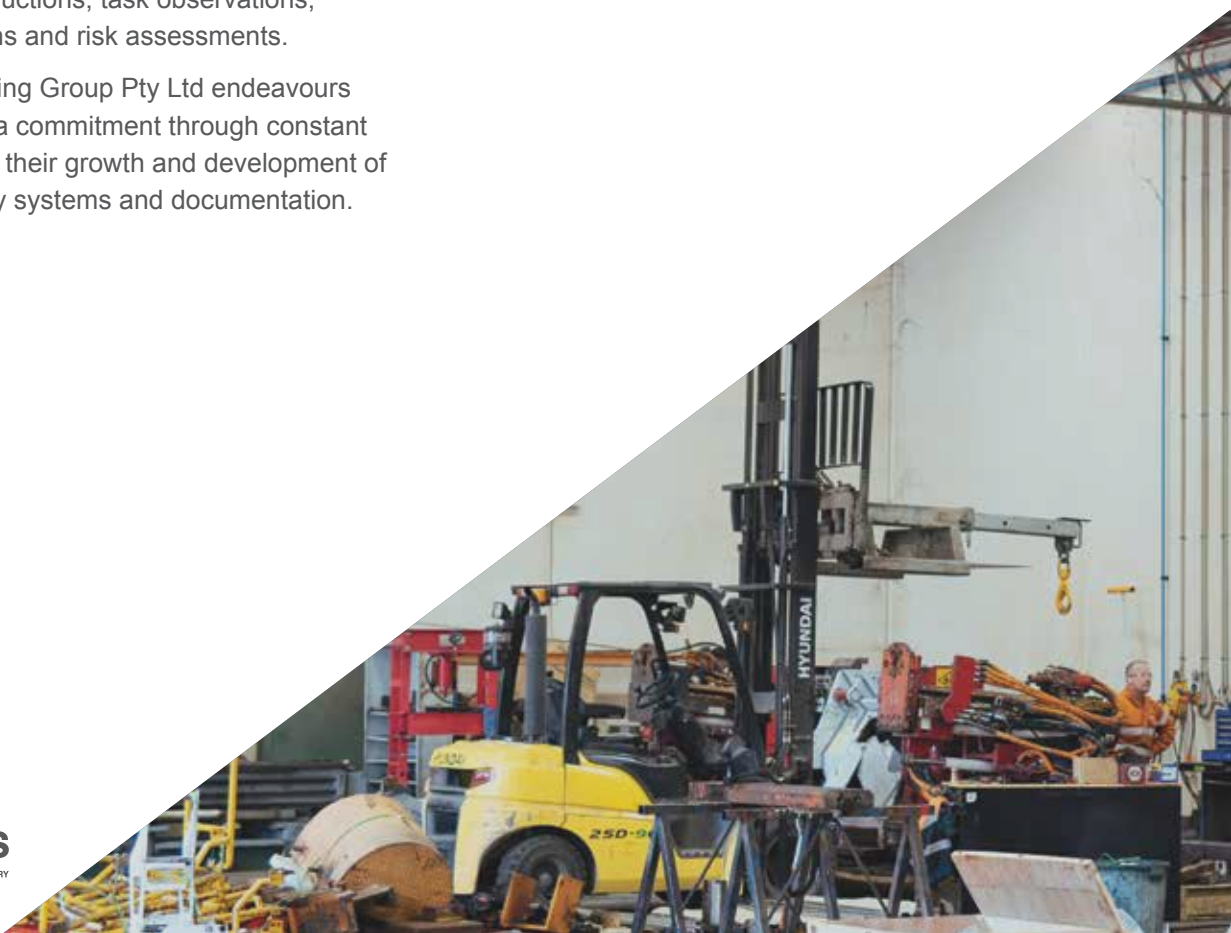
As part of this Safety Management System, the Alfabs Engineering Group Pty Ltd have implemented a process of internal and external auditing to ensure compliance with the WHS Act, the WHS Regulation, AS/NZS 4801, Codes of Practice and all applicable Australian Standards. The Safety Management System has also employed the use of an online reporting system to record and monitor workplace incidents, injuries, hazards, inductions, task observations, workplace inspections and risk assessments.

The Alfabs Engineering Group Pty Ltd endeavours to continue to show a commitment through constant improvement toward their growth and development of the company's safety systems and documentation.

Quality Management

Alfabs Engineering Group Pty Ltd have implemented their own Quality Management System that meets the latest international standard ISO 9001:2015 to underpin the development, production, installation and servicing of the company's products. Their reputation is built on Safety, Quality, Delivery on Time and Budget which is essential to the achievement of corporate objectives and the continual success in growth of our organisation.

To do this, Alfabs Engineering Group Pty Ltd have adopted a risk-based thinking approach within our Quality Management System. This prevents undesired effects whilst allowing us to drive change and promote continual improvement that delivers a high level of product and services to support our customer's needs. We acknowledge that a versatile approach is necessary to meet with a variety of client's specifications, materials, codes and site-specific procedures. Therefore, we assess our client's requirements and generate a specific Project Quality Plan, Inspection and Test Plan as the basis of control from the onset of each project.



Environmental Management

The Alfabs Engineering Group Pty Ltd.'s main reason for implementation of an environmental management system using the ISO 14001 requirements was to help the environment by minimising impact and reducing costs to the organisation. This can bring better relationships with customers, the public, and the community for the Alfabs Group.

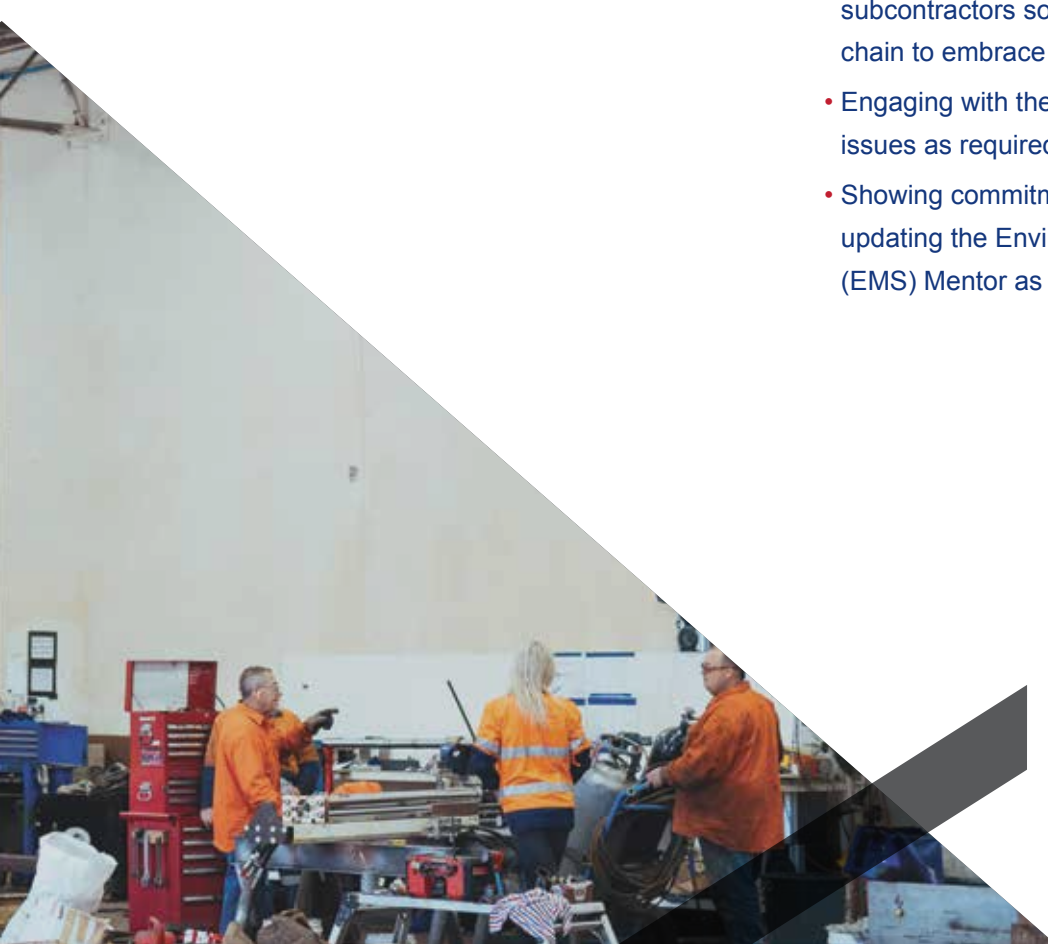
But it also brings other benefits:

- It demonstrates that the Alfabs Group is environmentally conscious to clients and key stakeholders when deploying services, products, activities and normal operations.
- Improves cost control – By conserving energy and input materials.
- Alfabs Group aims to continuously improve in environmental performance and in minimising the organisations carbon footprint.
- It shows that Alfabs Group have implemented a systematic approach to set and achieve environmental objectives and targets.

Environmental Sustainability

As an ASI Environmental Sustainability Charter (ESC) Certified Company, Alfabs Engineering Group Pty Ltd currently holds an ESC Band – Gold certificate, where they commit to run their business along sustainable lines, demonstrating environmental responsibility and sharing knowledge of sustainability with others, as demonstrated by:

- Promoting steel as an environmentally suitable form of construction which can be recycled again and again.
- Operating so as to optimise the eco efficiency of steel manufacturing, processing, treatment and construction throughout the full product life cycle.
- Embracing the environment hierarchy of reduce, reuse, remanufacture and recycle so as to minimise impacts on resources and energy, in steel manufacturing, processing, treatment and construction.
- Continuing to build its environmental awareness and to share this knowledge with suppliers and subcontractors so as to encourage the full supply chain to embrace and implement sustainable policies.
- Engaging with the local community on environmental issues as required.
- Showing commitment to the ESC by continually updating the Environmental Management System (EMS) Mentor as appropriate.



OUR COMMUNITY

Alfabs Group over the years have supported many charities and community events in any way we can. Supporting through alignment, donations, fundraising events and utilisation of our BBQ Trailer.



BBQ TRAILER

The perfect trailer for your next fundraiser, sporting event or function! No charge, contact us to make a booking!

DRIFT RUNNERS

Supporting and raising awareness for Breast Cancer and Prostrate Cancer.



“RIZZO” 10T TORQUE TITAN

Alfabs has a long history of supporting worthy causes like The Westpac Rescue Helicopter, MS, and The Cancer Council. The National Breast Cancer Foundation (NBCF) is no exception.

The Alfabs Group’s Mining Division have just received Alfabs latest machine in its hire fleet which will be going onto long term hire with South32 at their Dendrobium Mine site.

The machine is the Torque Titan 10T Loader, and in support of the NBCF Alfabs have decided to paint it pink. It will be the flagship of our fleet and highly recognisable. This will be the first of many Titans coming to NSW.



2020 SPOTLIGHT

A few things that happened over the year 2020 at the Alfabs Group, continuing to grow our “One Stop Shop” Solution to provide quality products and services to our valued clients.

Brand New Stonedust Facility

Our new purpose-built sheds are situated in Telarah just minutes away from the Hunter Valley and our engineering, fabrication and hydraulics workshops. In con-junction with Mai-Wel, we are manufacturing Bat Bags at a higher rate with our new Isotainers and bagging areas set up. Our team is consistently beating their daily targets, increasing production through hard work, dedication and team work. The new facility has allowed our valued employees to streamline their process and hold more stock within the workshop.

Alfabs Mining Equipment is here to supply our clients with a more effective and efficient explosion barrier method. Some previous techniques used for explosion barrier methods were water barriers and dust shelves. We supply a bagged barrier protection system that is the dispersal of sufficient inert material into an airborne dust cloud, to render the dust clouds non-combustible. The delivery method for these bat bags are reliant on pressure waves travelling ahead of the flame which will explode / rupture the bags, similar to the wave overturning a dust shelf or shattering water tubs.

Alfabs commenced production of these Bat Bags back in 2004 and since then have introduced them to 90% of NSW coal mines. In 2013, these Bat Bags were then exported to Mexico, Russia and South Africa to allow for the proven technology to create a safer mining environment.

Due to the high demand and growth of our Bat Bags, Alfabs have now moved to a bigger facility to cater for demand both overseas and in Australia.



Diesel Fleet Expansion

Alfabs Mining Equipment has been very happy and excited to introduce not one (1) but five (5) 10t Torque Titan LHDs into our fleet over the year!

Bringing our clients, the market leading design incorporating the latest technology. With an explosion protected diesel engine system, our 10t Torque Titans set a new benchmark in productivity, diesel particulate management and gaseous emissions controls, whilst all round reducing whole life running costs for our clients.

We introduced the following:

- **RIZZO**

Proudly supporting the National Breast Cancer Foundation, where our alignment throughout the year saw \$10,000 donated to the charity. Rizzo is the flagship to our fleet, being the first introduced.



- **Chief**

After being originally formed as Alfabs Engineers Pty Ltd, the Alfabs Group remains in operations under the direct management of the Torrance family. In honour of our Director, we dedicated 1004 to Paul Torrance "Chief"! The business wouldn't be the same without Chief at its helm!



- **Blue Heeler**

Raising awareness around prostate cancer, with different coloured ribbons representing different cancers, the Blue is in recognition of those fighting, in remission, supporting or for those who have lost loved ones to Prostate Cancer. We encourage men to see their local GP and get tested today, prostate cancer claims 3,300 lives a year in Australia alone.



- **Big Red**

In recognition of the hard-working fire fighters and emergency service crews who battled blazes across the state of NSW in the 2019 / 2020 bush fire season. Many men and women put their lives at risk, tirelessly working day and night, away from their homes and families. We are grateful that cooler conditions presented and brought well needed rain to bring respite to our emergency services.



- **Miss Alex**

In honour of Alex Atkins, who was part of the first wave of women in Australian mining and first woman to hold the District Inspector title for the Western Australian Department of Mines and Petroleum, an inspiration to all women in mining, her competence, courage, positivity and determination saw Alex reach the top in her field! Congratulations Alex!



ALFABS ENGINEERING AND SERVICES

Alfabs Maintenance And Labour Supply (Trades And Project Support)

The Alfabs Group have quality site labour available for contract works or hourly rate installation. Labour supply include, but is not limited to:

- Site Managers
- Superintendent
- Project Engineers
- Supervisors
- Boilermakers
- Welders
- Rail Welders
- Fitters
- Diesel Fitters
- Riggers
- Crane Operators
- Plant Operators
- Scaffolders
- Steel Fixers
- Concreters
- Form Workers
- Roof Plumbers/Sheeters
- Painters
- Blasters
- Mechanics
- Trade Assistants.

Additional information available on request, including labour rates.

Our Team

The Engineering and Services team have executed a diverse range of jobs and projects during their years of operation. Successful completion of these tasks and projects have produced a team with experience and flexibility, allowing Alfabs to become one of the industry's leading suppliers in heavy, medium and light gauge steel engineering and fabrication as well as site installation.

The team provides a variety of services to a diverse range of customers. These services include, but are not limited to:

- Engineering and fabrication
- Civil and detailed earthwork installation
- Road gantries, bridge fabrication and installation
- Mining shaft and underground fabrication and installation
- Onsite steel installation
- Onsite OEM and machine installation
- Onsite bin and plate work installation
- Onsite conveyor and gantry installation
- Onsite wharf and marine works
- Minor works
- Planned outages
- Emergency outages
- Breakdowns and turnarounds
- Maintenance
- Sustainable capital works



Location

Alfabs Engineering is located in Kurri Kurri NSW and is situated on a 5-acre block of land which provides a suitable storage and pre-assembly area. Alfabs' yard includes a specific hardstand pre-assembly area with a concrete crane pad, consisting of approximately 4,000 square metres, enhancing our pre-assembly capabilities.

The main workshop comprises of 3000 square metres under cover, one 30 Tonne and three 15 tonne overhead cranes (two pair in tandem) with 7.2 metres under hook. The workshop size enables the use of mobile cranes to supplement lifting capacities. Alfabs Engineering have fabricated structures that exceed 150 tonne sections in the main workshop. To enhance welding capabilities, Alfabs have installed a Robotic Welder to assist with our large and repetitive welding

jobs. The AGT beammaster is capable of welding 18 metre lengths. This automated piece of plant serves as a large cost saver to our clients.

Alfabs' processing workshop is located at the rear of the main workshop. It consists of a Pedinghaus beamline which serves to drill, cut and mitre beams and angles up to 1000WB. This beamline is aligned to the Pedinghaus Peddiwriter which performs all layout marking of our steel sections.

With the addition of offices and workshops in the Wollongong and Mackay regions of NSW and QLD, Alfabs have the ability to undertake work in these areas with a local approach.

NORTHERN CONCOURSE ROOF PROJECT



CENTRAL STATION PROJECT

NORTHERN CONCOURSE ROOF

CENTRAL STATION 2020

PROJECT Northern Concourse Roof

CLIENT Sydney Metro

PRINCIPAL CONTRACTOR Laing O'Rourke



Central Station Northern Concourse Roof

In our very own backyard located in the Hunter Valley 130 Mitchell Ave, is where the Alfabs team and principal contractor, Laing O'Rourke's team, have worked together to fabricate, preassemble, disassemble and transport the Northern Concourse Roof for Sydney's Central Station.

Laing O'Rourke is delivering the new Sydney Metro platforms under Central Station as well as the landmark Central Walk, a new underground pedestrian concourse to help customers get around Sydney's busiest railway station.

On the Northern Concourse (located near the Eddy Avenue station entrance) a new landmark is taking shape. It was firstly formed here, right in the Hunter Valley, before being transported down to Sydney for the final installation.

The structure spans from the northern end of Platform 8 to Platform 16, sitting more than 16 metres above the ground. This 80-metre-long, 40-metre-wide roof structure has diamond shaped openings that will allow natural light to filter through into the station, Minister for Transport, Andrew Constance said in September 2020, "In many ways, like diamonds in the sky, you can see that this is going to be a magical roof and concourse that links suburban trains with the metro".

As of September 2020, the project is approximately two thirds complete, with sections of the roof to be installed progressively until the end of 2020, moving through various stages of the final assembly.



NORTHERN CONCOURSE ROOF PROJECT

Component Fabrication

Here at Alfabs Engineering Group Pty Ltd, our Kurri Kurri fabrication workshop is 95% complete as of September 2020, fabricating various components of the roof structure. About 7,500-man hours from our workshop team of 45 productive and valued workers, has gone into the project so far. Our team has worked very hard, ensuring all fabrication compliance, tight deadlines, safety and quality was supplied from start to finish.

- 342 tonnes of permanent steelwork in total comprising:
 - 58 Cassettes – of various sizes up to 13 metres long and 5.4 metres wide
 - 8 Girders – up to 21 metres long and weighing up to 15 tonnes each
- 42 cassette transport frames
- 45 tonnes of temporary installation steelwork and propping



Blasting And Protective Coatings

AkzoNobel was selected to provide long-term corrosion protection for the Northern Concourse's fabricated components. The International® brand of protective coatings has been extensively used throughout Australia and the world to protect the worlds infrastructure successfully for decades, and is synonymous with long term, reliable corrosion protection for steel.

The inorganic zinc rich primer Interzinc 2280 was selected to protect the roof steelwork for this iconic project.

The Alfabs Protective Coatings team blasted and spray painted the new steel sections using a Class 2½ AS 1627.9 blast system and the one coat of solvent-based silicate inorganic zinc-rich primer paint system to provide maintenance free protection for the steel.



Concourse Preassembly And Disassembly

Alfabs Services has worked closely with the Laing O'Rourke team external to the workshop to prepare a lay down pad next to the workshop shed where the first stage of the preassembly of the Northern Concourse roof took place. The preassembly yard was levelled, ready for what was going to be an exciting and challenging few months ahead. Good communication has been the key to delivering a quality preassembly of the Northern Concourse roof. All work was undertaken to a very high-quality standard. Everyone had their safety and that of others in the forefront of their minds throughout.

Even throughout COVID 19, everyone has worked well within all restrictions and taken all necessary precautions to ensure all team members and site visitors are safe. We couldn't be happier with how everyone has responded to recent events and congratulate everyone on their consistent effort in staying fit, safe and well!

Assembly, disassembly and preparation for transportation was 70% complete as of September 2020. Our Alfabs Services team consists 25 highly skilled tradesman and a team of project professionals. A dedicated crew of 15 workers have completed 8,200-man-hours so far on this project alone.

Installation sequence

- Installation of temporary roof support towers
- Installation of girders (Hockey Sticks)
- Installation of rafters and linking beams
- Survey alignment of primary structure
- Installation of roof cassettes
- Fit out of skylights, roofing and soffit by others



NORTHERN CONCOURSE ROOF PROJECT

Transportation

All components of the structure that were assembled and disassembled at our Kurri Kurri facility were trucked to Sydney by Alfabs Logistics. Our prime movers were pre-loaded and ready to move within their windows of opportunity. These components were trucked in just before a 48-hour possession window to ensure minimal delay to station operations. Our vehicles were on tight deadlines whilst adhering to strict laws for travel restrictions with over-dimensional loads.

During these possessions, Alfabs installed three primary rafters (hockey sticks), four linking beams and up to 14 roof module cassettes. That is 100 tonnes of primary steel and fully fitted out secondary steel, over 700 m² of finished architectural soffit, 42 pre-wired lights and speakers as well as six water tested and fully glazed skylights.



Roof Cassette Installation

Sections of the roof will progressively be installed over the Northern concourse until the end of 2020, with the Central Walk expected to open to commuters in 2022. The installation will include:

- 58 cassette sections being installed, each weighing around five tonnes
- Largest cassettes are 13 metres long and 5.4 metres wide
- Eight girders being installed, each weighing up to 15 tonnes
- Longest girders are near the Station Master's Office, measuring 21m long
- The ceiling has perforated aluminium cladding panels, 21 distinctive diamond shape skylights, lighting and speakers

As of November 2020 more, that 10,200-man hours have been used to carry out the pre-build, dismantle and permanent installation of the CSM Northern Concourse Roof. The installation has mostly taken place over compressed time frame "possession" weekends which allow open access to the existing Central Station site without trains or pedestrians. This allows a specific area of the overall structure to be targeted and installed rapidly. For example, the western section of primary steel (bays 1 & 2) was installed on the 5th & 6th of September along with 10 roof cassettes. Alfabs work crews started work on Friday night after the trains and pedestrians have been redirected to alternate parts of Central station and continued around the clock until the early hours of the following Monday.

Across these possession weekends, a dedicated Alfabs crew of up to 16 men worked nonstop to complete the installation of the hockey sticks and roof cassettes. This involved the installation of steel, alignment to design levels using survey, grouting of the hockey stick base plates, temporary propping of the partially completed primary steel and then finally installing the roof cassettes. There have been many weekend possessions when the weather has been less than favourable to us. We have experienced high winds, driving rain and extremes in temperature, but throughout, our crews have maintained their professionalism, commitment to quality and safety and delivered for our valued clients.



NORTHERN CONCOURSE ROOF PROJECT



32t Crane Lift

Bay 4 of the new Northern Concourse roof at Central Station was pre-built in the north end of the traffic deck prior to the possession to install it. Bay 4 weighed in at 32 tonnes and was complete with all cassettes, roofing, and most of the soffit already in place. The pre-build took 4 days to carry out on the traffic deck and the installation took place on a Tuesday night. The process from pre-build to installation ran smoothly with no problems or issues arising. The team carried out a fantastic job ensuring all measures were in place to minimise or stop any delays or problems occurring.





December 2020

As Christmas starts to approach us in December 2020, Alfabs work on site down at Central Station for Sydney Metro is almost finished. As you can see in the attached photos, the soffit installation is progressing really well and is almost done. Alfabs has worked closely with JML Craft with glass louvre installation and started to remove the support deck from under the new roof.

The progress everyone has made on site is incredible, with all teams working closely to ensure tight deadlines have been met in the safest way with a high standard.



ALFABS ENGINEERING AND SERVICES

Project Portfolio



PROJECT: Sydney Light Rail

CLIENT: Acciona

CONTRACT VALUE: \$12,000,000

SCOPE OF WORK: Detailed drafting, fabrication, surface treatment and installation of all structural elements associated with 20 stops or stations on the Sydney Light Rail path. Supply and installation of architectural items such as, but not limited to, stainless-steel cladding, bronze soffit panels, fall arrest system and skylights (glass).

KEY ACHIEVEMENTS

- Fabrication and surface treatment of over sized and complex structures.
- Supply and installation of high-end architectural finishes.
- Ability to work safely and efficiently on small sites due to intense technical planning.
- Ability to work within tight road closure schedules.

PROJECT: Mount Thorley Warkworth Washery Upgrade

CLIENT: Warkworth Mining / Yancoal

CONTRACT VALUE: \$2,000,000

SCOPE OF WORK: Carry out installation on site of equipment, pipes and structural elements to facilitate the installation of the new Midsize Circuit cyclones and spirals at the South CHPP.

KEY ACHIEVEMENTS

- Successfully implementing controls and procedures inline with Covid 19 laws to ensure continuous working timelines.
- Successful planning and implementation of stages of work in three shut down windows
- Being able to work around operational plant with zero impact on the mine's productivity when shut down windows were not in place.



PROJECT: Rixs Creek Acoustic Wall and Cladding Upgrade

CLIENT: Bloomfield Group

CONTRACT VALUE: \$1,200,000

SCOPE OF WORK: Fabrication and installation of all structural elements (steelwork, platework, sheeting etc.) for construction of a sound wall at the Rix's Creek south CHPP. Removal and replacement of sheeting and supports at the Rix's Creek North CHPP.

KEY ACHIEVEMENTS

- Detailed drafting and fabrication of wall panels specifically designed to dampen the sound emitted from the south CHPP.
- Assembling individual panel components to allow for removability by the mine's operators if required.
- Innovating ways to install wall sheeting, limiting the use of cranes and other machinery, using pulley systems from ground level at the North CHPP.



PROJECT: Wellington Solar Farm

CLIENT: GCo Solar

CONTRACT VALUE: \$650,000

SCOPE OF WORK: Supply of Galvanised Structural Steel elements to support the construction of a new Solar Farm at Wellington in regional NSW.

KEY ACHIEVEMENTS

- Planning and staging successful delivery of approximately 320 tonnes of structural steel to regional NSW with a 700km round trip.
- Processing of over 1,000 items per week, with 24hr operations.

ALFABS ENGINEERING AND SERVICES

Project Portfolio

PROJECT: Liddell Power Station
Conveyor Maintenance

CLIENT: RCR Energy/AGL

CONTRACT VALUE: \$400,000

SCOPE OF WORK: Encapsulation and surface treatment using abrasive blasting and painting of corroded elements of various conveyor systems and transfer towers at Liddell Power Station as identified by RCR Energy and AGL.

KEY ACHIEVEMENTS

- Management of multiple teams across several locations.
- Managing the transportation of tooling and equipment around site to various teams where required.
- Safe and efficient completion of all tasks as identified by the client.



PROJECT: Brookvale Pedestrian Bridge

CLIENT: Downer

CONTRACT VALUE: \$1,750,000

SCOPE OF WORK: Detailed drafting, project management, pre-assembly, delivery and installation of a large bridge truss structure. Supply, fabrication and installation of anti-throw screens, handrails and balustrades, roofing, soffit, gutter and fall arrest system.

KEY ACHIEVEMENTS

- Safe and on-time delivery of an oversize and over mass load to site.
- Installation of heavy pre-finished loads in tight locations during sensitive road occupations.
- Ability to preassemble and pre-build a large piece of infrastructure off-site and then deliver and install.

PROJECT: New Intercity Fleet Program (NIF)

CLIENT: Downer

CONTRACT VALUE: \$2,200,000

SCOPE OF WORK: Detailed drafting, fabrication, surface treatment and installation of all structural steel elements and precast concrete associated with platform extensions at five train stations – Adamstown, Hamilton, Wyong, Gosford and Central. Demolition, excavation and all civil and earthwork associated with the construction of platform extensions at Central Station.

KEY ACHIEVEMENTS

- Successfully planning and executing of weekend possession works for all install aspects of the project.
- Installation of in excess of 100 metres of platform structure – steel and precast concrete elements over one weekend at Adamstown Station.
- Ability to work against strict deadlines in a dynamic project environment.



PROJECT: Sydney Yard Access Bridge

CLIENT: Laing O'Rourke

CONTRACT VALUE: \$3,400,000

SCOPE OF WORK: Supply, detailed drafting, fabrication, surface treatment and installation of all structural steel items associated with the Sydney Yard Access Bridge at Central Station as part of the Sydney Metro City and Southwest works.

KEY ACHIEVEMENTS

- Successful fabrication of an excessively complex and large structure, with the bridge being curved in plan as well as elevation.
- Installation of four heavy bridge girder sections, including a section weighing approximately 60t after site welding.
- Installation and fixing of approximately 310 tonnes of steel over 3 possession weekends.

ALFABS ENGINEERING AND SERVICES

Project Portfolio

PROJECT: Hunter Street Facade

CLIENT: Mann Group

CONTRACT VALUE: \$1,100,000

SCOPE OF WORK: Detailed drafting, fabrication, surface treatment and installation of large items of steel for the Façade retention of a heritage building in inner Newcastle. Supply, installation and removal of counterweight blocks for installation. Provision of Traffic Management.

KEY ACHIEVEMENTS

- Successful implementation of intricate structural design and alignment detail for the façade retention of a heritage building.
- Surface treatment in accordance with heritage specification.
- Successful and safe lifting of large steel elements in an urban and densely populated area.



PROJECT: TAP3 – North Strathfield Station Upgrade

CLIENT: Downer

CONTRACT VALUE: \$1,650,000

SCOPE OF WORK: Detailed drafting, fabrication, surface treatment and installation of all structural elements associated with 3 lift shafts at North Strathfield Station. Supply and installation of architectural items, stainless steel cladding, aluminium louvres, fall arrest system and glazing panels, as well as roofing and gutter systems.

KEY ACHIEVEMENTS

- Pre-assembly of large structural steel items with architectural finishes at our facility in Kurri Kurri.
- Installation of numerous large pre-assembled modules over the course of a single possession weekend.

PROJECT: Newcastle Transport Interchange

CLIENT: Laing O'Rourke

CONTRACT VALUE: \$5,300,000

SCOPE OF WORK: Supply, detailed drafting, fabrication, surface treatment and installation of all structural and architectural items associated with the Wickham footbridge, platform structures and canopies, light rail canopy, all handrail and balustrades as well as various other miscellaneous items at the Newcastle Transport Interchange site. Supply and install of the Space Frame structure over the main building.

KEY ACHIEVEMENTS

- Consultancy and visitations with an overseas supplier regarding the installation and assembly methods of the 7,000-piece space frame structure.
- Pre-assembly of the space frame structure at Alfabs' facility into large sections for delivery to site.
- Complete pre-assembly of the Wickham footbridge including structural steel, concrete deck, roof sheeting and drainage structure, anti-throw frames, fireproofing, glazing and handrails.
- Excessively large scope completed on time in line with client schedule.



ALFABS PROTECTIVE COATINGS

Overview

Alfabs Protective Coatings and Blasting is located in the Hunter Valley region offering a wide range of coating services and sandblasting. Supplying our customers with a high end, professional service whilst maintaining our safety and environmental awareness, quality within our work and delivery on time.

From basic paint jobs to more complex, our team of skilled professionals will work with you to ensure you are receiving the best quality industrial coatings for your project, from first call to the completion.

Our facility offers 24-hour/ 7 day service, to minimise disruptions to our clients working schedules. We understand our clients have tight deadlines for project completion.

Capabilities

Offering any colouring options, we will colour match specific colours to meet branding guidelines to keep consistency for our clients and their branding. Alfabs Protective Coatings is here to help our clients achieve the look they desire!

Blasting with multiple abrasives and capable to apply multiple coat systems to accommodate all specified specifications, we have you covered.

Location

Located in Kurri Kurri, Hunter Valley NSW, our Protective Coatings and Blasting workshop is 2,000 square metres under cover with 3 overhead 15 tonne cranes. Our workshop is set up to accommodate for larger projects.

Compliance

- PCCP Accreditation
- Nace 1 and 2 certified Inspectors
- Hot dip galvanising inspector
- Working at Heights ticketed staff
- Confined Space ticketed staff



ALFABS PROTECTIVE COATINGS

Project Portfolio

CATEGORY: Mine upgrade

PROJECT: Wambo Skyline Gantry and Trestle Legs

BLASTING: AS1627.4 Class AS 2 ½

COATING PRIMER: International Interzinc 52
@ 75um DFT

COATING TOPCOAT: International Interplus 1180
@ 150um DFT

TONNAGE: 150 Tonne



CATEGORY: Mining Equipment

PROJECT: Pipe Trailer

BLASTING: AS1627.4 Class 2.5

COATING PRIMER: N/A

COATING TOPCOAT: Jotacote 605
@ 100um DFT

CATEGORY: North West Rail Link
PROJECT: Lift shafts & platform structural
BLASTING: AS1627.4 Class 2.5
COATING PRIMER: Dulux Zincode 402 @ 75um DFT
COATING TOPCOAT: Dulux Fluoropolymer V90 @ 100um DFT (Satin Black)



CATEGORY: Various Clients
PROJECT: Blast only
BLASTING: AS1627.4 Class 2.5

ALFABS PROTECTIVE COATINGS

Project Portfolio

CATEGORY: Small Client Jobs

PROJECT: Trailers & Bollards

BLASTING: AS1627.4 Class 2.5

COATING PRIMER: Jotun Penguard Express
@ 100um DFT

COATING TOPCOAT: Jotun Hardtop AX
@ 75um DFT (Colours as required)



CATEGORY: Sandvik Eimco

PROJECT: Transport & Blast Eimco Refurbishment

BLASTING: AS1627.4 Class 2.5

COATING PRIMER: Jotun Barrier @ 75dft

COATING TOPCOAT: Jotun Hardtop AX
@ 75um DFT (Colours as required)



CATEGORY: Swanson Shuttle Car
PROJECT: Shuttle Car Refurbishment
BLASTING: AS1627.4 Class 2.5
COATING PRIMER: Jotun Penguard Express
 @ 150um DFT
TONNAGE: 15Tonne



CATEGORY: Alfabs Access Equipment
PROJECT: Refurbishment of a Toyota 5t Forklift
BLASTING: Palm Sand
COATING PRIMER: International Intercure 200
 @ 125dft
COATING TOPCOAT: International Interfine 629
 @ 75umdf

ALFABS PROTECTIVE COATINGS

Project Portfolio

CATEGORY: Tarago Veolia Waste Plant

PROJECT: Blast & Paint joint welds on waste separation turbines

BLASTING: AS1627.4 Class AS 2 ½

COATING PRIMER: Haghebaert Fremaux Zinc Epoxy @ 100um DFT

COATING TOPCOAT: Haghebaert Fremaux Polyurethane @ 100um DFT (Grey)



CATEGORY: Alfabs Site Services

PROJECT: Noahs on the beach 2nd level balconies

BLASTING: AS1627.4 Class AS 2 ½

COATING PRIMER: International Interzinc 52 @ 75dft

Coating Midcoat: International Intergard 475 HS MIO @ 200dft

COATING TOPCOAT: International Interfine 878 @ 75dft (Slate Grey)



CATEGORY: Allight Sykes Pumps

PROJECT: 2 x Pump Chassis

BLASTING: AS1627.4 Class AS 2 ½

COATING PRIMER: Jotun Penguard Express @ 125dft

COATING TOPCOAT: Jotun Hardtop AX @ 75dft (N14 White)

TONNAGE: 5 Tonne



ALFABS PROTECTIVE COATINGS

Project Portfolio

CATEGORY: Westrac

PROJECT: Austar Longwall Overhaul

BLASTING: AS1627.4 Class AS 2 ½

COATING PRIMER: Jotun Penguard Express @ 125dft

TONNAGE: 80 Tonne





CATEGORY: Flsmidth Rake Arm

PROJECT: Flsmidth Slurry Rake Arm

BLASTING: AS1627.4 Class AS 2 ½

COATING PRIMER: International Interzone 485 @ 1000um DFT

COATING TOPCOAT: International Interzone 485 @ 1000um DFT (Grey)

TONNAGE: 18Tonne

TRANSPORT AND LOGISTICS

Capabilities

As part of our “One Stop Shop” Solution, with Safety, Quality and Delivery always in mind, Alfabs Transport and Logistics is an integral part of the Alfabs Group.

With over 150 years’ experience in the transport industry, Alfabs Transport and Logistics will provide you with a friendly, professional and efficient service hauling all different sized loads.

Under the control of our logistics manager, we run a fleet of transport vehicles to cover transportation and delivery of internal and external jobs ranging from large steel sections, mobile plant and equipment, mining equipment to spare parts and consumables.

Delivering our services 24 hours a day, taking on your next project across a vast array of industries – Mining, Rail, Infrastructure, Energy.

Fleet

Offering a wide range and variety of trucks and trailers to support our valued client’s requirements. Catering for smaller freight with our tilt trays and pantech’s whilst having the ability to move and handle larger equipment and fabricated steel sections with our Drop decks, flat tops and prime movers.

- Prime Movers
- Drop Deck Trailer
- Pantech’s
- Pilot Vehicles
- Flat Top Trailers
- Floats
- Tilt Trays
- Franna
- Extendable Trailers
- Utes
- Crane Truck

“Here to help
with your
next move.”





Compliance

Alfabs Transport and Logistics ensures to abide by all regulations and permits across all states and territories in Australia. Priding ourselves on our dedicated team members staying up to date with all current road laws, curfews and travelling restrictions.

- Chain of Responsibility
- Inducted Personnel
- Mine Site Compliant
- Metro Compliant

Services

Priding our Transport and Logistics team in offering a reliable, affordable and punctual service to our clients with quality service and on time delivery in the safest way possible. Upholding our can-do attitude and abilities to move:

- Over Dimensional Transport
- Mining Equipment
- General Freight
- Local and Interstate
- Storage - short and long term across multiple depots
- Project transport and coordination
- Warehousing
- Fabricated / Structural Steel
- Mobile Plant and Equipment
- Courier and Hurricane
- Equipment relocation





ALFABS TRANSPORT AND LOGISTICS

Project Portfolio

CATEGORY: Mining Equipment

LOAD: Stone Dust Bat Bags



CATEGORY: Underground Mining Equipment

LOAD: Truck Rims



CATEGORY: Underground Mining Equipment

LOAD: Underground Camel LHD



CATEGORY: Underground Mining Equipment

LOAD: Pipe Trailer



CATEGORY: Underground Mining Equipment

LOAD: QDS Boar Bolter



CATEGORY: Mobile Plant And Equipment

LOAD: Franna Crane



CATEGORY: General Freight

LOAD: 1000L IBCs



CATEGORY: Over Dimensional Transport

PROJECT: Fabricated / Structural Steel

LOAD: Lift Shafts



ALFABS TRANSPORT AND LOGISTICS

Project Portfolio

CATEGORY: Project Transport and Relocation

PROJECT: Sign Upgrade Kurri Kurri and Cessnock

LOAD: Concrete blocks



CATEGORY: Mobile Plant and Equipment

LOAD: Knuckle Boom



CATEGORY: Equipment Relocation

LOAD: Transformers



CATEGORY: Mobile Plant and Equipment

LOAD: Forklift



CATEGORY: Over Dimensional Transport
LOAD: Cassette



CATEGORY: Over Dimensional Transport
LOAD: Rafter



CATEGORY: Over Dimensional Transport
LOAD: Roof Sections 4.5 Metres Wide



CATEGORY: Project Transport and Relocation
LOAD: Lift Top Structure



ALFABS HYUNDAI FORKLIFTS

Overview

Alfabs Hyundai Forklifts understand that every company has site specific requirements to ensure that their day to day operations, production and output is successful and running at full capacity. We are here with our forklift and access equipment range to provide our clients with cost effective products! With a fleet of over 500 pieces of equipment, we have you covered with Hyundai forklifts, Telehandlers, Boom Lifts, Scissor lifts and more!

We understand that any down time on critical equipment within our client's operations is vital to their execution of business goals and objectives. Our team is here to support our customers and build a partnership with you. Alfabs Hyundai Forklifts will stand behind our products offering better warranties, better servicing and better support than anyone else in the industry. Ensuring that our equipment keeps your operations moving!

Located in the Hunter Valley, we have a well-equipped workshop facility for all repairs, maintenance and overhauls, on both new and old forklifts, access equipment and light vehicles.

- Smart technology and safety that future-proofs your business
- The driver's choice that drives your organisation's productivity
- Service and support that only an independent dealer can provide



Smart technology and safety that future-proofs your business.



The driver's choice that drives your organisation's productivity.



Service and support that only an independent dealer can provide.

“In Korean the word “Hyundai” means modernity. Our founder chose the name to symbolize his philosophy that success comes from challenging oneself to constantly innovate. Today, we build on his legacy by continually delivering high-quality, value-driven products that can support your evolving needs. We focus on building the most durable, reliable, safe, and comfortable forklifts available, backed by Hyundai’s industry-leading warranties.”

Workshop Mechanical Services

As a way of life, we understand that vehicles and equipment break. All we can do is implement preventative methods, such as regular servicing and maintenance, to get the best life out of your vehicles. Our team provides our clients with a second to none service of smart and sensible advice and value on repairs and maintenance.

Alfabs Hyundai Forklift's can provide you with a "One Stop Shop" solution, offering a corporate fleet service and maintenance package. Have all your forklift, access and light vehicles serviced and maintained all in the one location!

Mobile Service Van

Our team is passionate about providing our clients with expert service to keep your forklifts working whilst maintaining low costs and less downtime.

Our commitment to customer satisfaction, Alfabs Hyundai Forklifts offers an onsite, call out service that is second to none! Our Mobile Service van is loaded with testing equipment, tools and spare parts to get your equipment up and running in as little time as possible.

Our service technician has comprehensive knowledge and experience knowing what to look for to diagnose, repair and prevent any potential problems.

Product Range

With such a vast range of products on offer, no matter what industry or environment our clients are in, we have something that will support our clients' equipment needs. Offering both purchase and hire options to our clients, we focus on providing durable, reliable, safe and comfortable equipment. Construction, projects, mining, timber, food, pharmaceutical, warehousing, logistics, steel industries – we will keep you moving!

- Forklifts – 1.0 Tonne to 25.0 Tonne and anything in between - LPG, Electric, Diesel, Warehouse



LPG



ELECTRIC



DIESEL



WAREHOUSE

- Access Equipment – Scissor Lifts, EWPs, Cherry Pickers, Telescopic Handlers + More



SCISSOR LIFTS



KNUCKLE BOOMS



STICK BOOMS



SPIDER LIFTS



VERTICAL MAN LIFTS



TELEHANDLERS

Services

- Light Vehicle Servicing, Repair and Maintenance – Workshop and On Site
- Fleet Management Services
- Attachments and Accessories
- Spare Parts



OEM PARTS

Genuine, high-quality Hyundai-made parts manufactured specifically for our forklifts.



LUBRICANTS PROGRAM

Oils and fluids designed by Hyundai to deliver maximum performance and protection for your forklift.



BATTERY PROGRAM

Powerful, reliable, industrial batteries produced by Hyundai to meet our high-quality standards.

A LEGACY OF QUALITY

One man's vision to create products that offer extraordinary quality, innovation and performance evolved into the world's largest shipbuilder and automobile manufacturers.

Today, we leverage that spirit and power to build forklifts that perform day in and day out, just like you.



ALFABS MINING EQUIPMENT

Capabilities

Alfabs Mining Equipment is a leading supplier of equipment, services, products, parts and consumables to the mining industry.

Specialising in the design and manufacture of QDS/RAS attachments, secondary support roof bolters, longwall move and materials handling equipment, our products are available for both sale and hire. With a team of skilled professionals, our equipment can be designed and custom built to suit our client's specific requirements by our drafting and design team.

All equipment supplied by the Alfabs Mining team is supplied with a complete Plant Safety File and approvals to meet the requirements of each specific client. Both electronic and hard copies are supplied and generally include items such as GA drawings, engineering certification, NDT reports, design risk assessments, physical stability test reports, training packages and assessments, spare parts manuals, maintenance/servicing schedule(s) and MDG audits.

Alfabs Group's Spare Parts and Warehousing Division is central to all manufacturing and maintenance projects. The Spare Parts and Warehousing team manage a wide variety of components from raw materials, mechanical, hydraulic, tooling, chemical, safety, stationery and PPE. Our team have stock on hand ready for our internal operations as well as critical parts required for our clients and their equipment.



Project Portfolio

PROJECT: Open Cut Cable Winder

EQUIPMENT: 988k Loader Cable Winder

SCOPE:

- Design and engineer implement based on customers request and operational concerns. Utilising mainstream, conventional components which are easily obtained in the event of failure.
- Advise on customer requests drawing from Alfabs extensive experience in design and manufacturing of implement. Making sure all aspects and contingencies are account for. With the intent to produce an implement with as little maintenance requirements as possible and be as “Fed” proof as possible.
- Manufacture to Australian standards.
- Test and commission implement on customers loader at our Kurri facility.
- Field test and commission on site at our client’s site
- Conduct operational and maintenance training on site for all site crews

ACHIEVEMENT:

Successfully designed and engineered implement, presented to customer with detailed explanation of design and intention.

Successfully manufactured on time even though during the build the customer requested we finish a week earlier than initially scheduled.

Successfully tested, commissioned and trailed onsite.



PROJECT: Hard rock drilling QDS Boar Bolter

EQUIPMENT: QDS Boar Bolter HFX with Rexroth Valve bank "Bolt Overhead And Ribs"

SCOPE:

To drill into hard rock and install roof and rib bolts in an underground mine site.

Our New Zealand customer approached us with a problem. They were drilling into areas with roof and rib conditions of up to 120Mpa Granite.

Our standard Boar configuration was struggling to drill in these conditions. Alfabs engineering team put their heads together and came up with a solution. Convert our Boar basket into a hard rock drilling machine.

During the design phase the COVID-19 epidemic closed borders. So, what ever we produced it would need to be fitted by fitters on site in New Zealand using a Alfabs designed work instruction

ACHIEVEMENT:

Designed and engineered a hard rock percussive drilling system that can be retro fitted on site by personnel not familiar with the Boar.

Components were manufactured and sent to NZ.

Components were fitted on site by local fitters using our Alfabs work instructions.

The Boar was successfully fitted out and tested by NZ local fitters.

With the Boar fitted out with it's new percussive drilling system, the NZ team were able to increase there drilling capacity by 200% putting the at least 6 months ahead of schedule.



Project Portfolio

PROJECT: Development Panel Supply System (DPSS)

EQUIPMENT: Range of equipment that was selected to be included in a complete package for the development panel team at one of our valued client's sites. Equipment in the DPSS package includes:

- Chemicals Pod
- Oil Pallet Pod
- Mesh Pod
- Bolt Pod
- Vent Tube Carrier
- Bolt Pod Cassettes
- Braked Cassette Trailer
- Racker
- Garbage Sled
- Rubbish Oil Drum Pod
- Tyre Handler



SCOPE:

To minimise manual handling, man hours and downtime in production of roof and rib bolts as well as other consumables on and off a continuous miner and to save time and money in transportation of consumables to and from the development team and the surface, all in the safest way possible.

ACHIEVEMENT:

Minimised the man hours spent moving consumables around the mine sites, minimised manual handling safety risks, minimised costs in loss of production and man hours.

PROJECT: Braked Airo Duster

EQUIPMENT: An Airo Duster is the latest technology in the application of mine approved stone dust in a wet foam form, applied to mine site walls as an explosion retardant. Attached to an LHD, it is towed around and applied as a wet stone dust slurry to both inbye and outbye operations.

SCOPE:

Safer means of transporting the Airo Duster around a mine site where slopped drifts can pose as a hazard for loss of control of the Airo Duster.

**PROJECT:** RFB Trapping Shoes**EQUIPMENT:** Rapid Face Bolter (RFB)**SCOPE:**

Three incidents occurred at longwall mines in which RFBs have disengaged from the armoured face conveyors (AFC) rack bars. All incidents involved RFBs that had been hired from third parties. As most RFBs are hired and moved between sites, the interface between the bolter, panline and rack bars must be managed on an individual basis at each site.

- Review the RFB compatibility with the pan line, rack bars and RFB
- Verify rack bar engagement with trapping shoes
- Check non-standard sections of the panline such as transitions and ramp pans
- Update operating procedures and training materials



ENGINEERING, DESIGN AND COMPLIANCE

Concept Drafting

Working closely with our clients to take proactive steps towards new concept design and re-design of concepts to Alfabs Mining Equipment have an in-house design and drafting team that can offer and create key solutions using the most up to date design and drafting software, CAD and 3D modeling images are supplied for your job before procurement and manufacturing takes place.

Knowing every project comes with its own specific requirements, Alfabs Mining Equipment can offer more than just a standard and basic design on our mining equipment. Our team will work together with our clients to discuss safer, more productive and cost-efficient ways for you to reach the best results.

Helping and assisting throughout the entire process:

- CAD Modeling and concept design
- Production of general arrangement (GA) drawings
- Completion of design risk assessment and FMEA on designs
- Review and amendments of concepts to meet risk assessment outcomes
- Production of shop detailed drawings
- Manufacture of prototypes
- Assembly and testing of prototypes
- Engineering certifications
- Plant Safety File (PSF) development
- Maintenance and servicing scheme on design

“**New concept or re-design with our in-house drafting team.**”



ENGINEERING, DESIGN AND COMPLIANCE

Design and Certification

We design and custom build our equipment to suit our client's site-specific requirements.

All equipment is supplied with a complete Plant Safety File and approvals to meet the requirements of each specific client.

Our plant safety files consist of, but are not limited to:

- Manufacturer Certification
- Design and Risk Assessments
- MDG Auditing
- Engineering Certification
- Non-Destructive Testing (NDT) Reports
- Jig Test Reports
- Hose Test Reports
- Stability Testing
- Schematics
- Training Packages
- DPI and OEM Safety Alerts
- Commissioning Documentation
- Maintenance and Servicing Schedules
- Spare Parts Manuals

“Plant Safety Files for all equipment.”



ENGINEERING, DESIGN AND COMPLIANCE

Stability Testing and Certification

Alfabs Mining Equipment have designed and manufactured a stability plate. To assess the stability of an LHD with a compatible attachment.

The Stability Plate is capable of being run on the LHD machines hydraulic source and is also supplied with its own battery supply unit. Stability testing allows for the user to determine the following for the specific attachment:

- Maximum Transport Height
- Maximum Transport Speed
- Maximum Cross Grade

Our team conducting Stability Testing complies to AS2359-1 - Powered Industrial Trucks Part 1 General Requirements Standards.

The method of testing has been derived from AS2359-1 "Powered Industrial Trucks Part 1 General Requirements" and modified to suit underground coal mine conditions by using the nominal stated cross grade for underground coal mining vehicles of 1 in 8 (7.5°) plus a 100 mm allowance for potholes and localised roadway deviations (11.4°)

Two methods may be used to determine stability limitations (if any) of the vehicle and attachment combination:

1. Use a test plate that is gradually inclined to 11.4° with the LHD and attachment fully articulated to determine the cross grade/load height at which the equipment becomes unstable
2. Use a fixed grade equal to 1 in 8 plus 100mm allowance (11.4°) and determine the load height at which the equipment becomes unstable





WORKSHOP AND FIELD SERVICES

Overhauls, Repairs and Maintenance

From minor repairs to full machine overhauls, Alfabs Mining Equipment can conduct any works from any of our 3 locations. We have a highly skilled team of boilermakers and fitters/mechanics that can restore our client's equipment. From regular and routine maintenance and servicing to full and major overhauls. It is crucial for our clients to keep their fleet in good condition with regular maintenance to maximise the safety and efficiency of their mining equipment for optimum performance.

During the refurbishment process, our team always ensures all current operator safe guards are in place and fit for purpose. Assessing how effective these current safeguards are and introduce new or enhance existing guard designs to ensure the operator's safety.

Always staying up to date with any new or revised standards and guidelines within the industry, Alfabs Mining Equipment ensures that our fleet and our client's equipment is compliant.



WORKSHOP AND FIELD SERVICES

Mechanical Code D – NATA

Alfabs Mining Equipment is an ExDES Recognised Service Facility (RSF) with recognition to undertake overhauls, Repairs and Code D examinations on ExDES (explosion-protected diesel engine systems).

Our workshop facility is equipped with:

- Responsible people as per AS/NZS 3584.3
 - Trades Qualified Heavy Vehicle Mechanics
 - Trades Qualified Boilermakers
 - NATA accredited to AS/NZS 17020 – Conformity Assessment –Requirements for the operation of various bodies performing inspection
 - Service and Repair Capabilities to OEM Specification for underground machines and implements in our workshop
 - Service and repair Capabilities for Surface and Underground installations
 - Compliance to WHS – Managing Contractors, SWMS
 - 10t Overhead crane
-
- Compliant to AS/NZS 3584.3 Diesel Engine System for Underground Coal Mines Recognised Service Facility
 - Ex Des License -Compliant to Part 9 Work Health and Safety (Mines) Regulation 2014 [NSW]
 - 090376 -SMV Driftrunner, MDR 140985 - Eimco Setco 3306, MDR 089003 Eimco Cat 3126, MDR 074246 Jug-A-0 V series, MDR 114991 Jug-A-0 Z series

Our parts performance:

- Code D of Diesel Machines to AS/NZS 3584.3
- Code and Repairs to underground implements
- Engineering support for projects and plant improvements
- Long term support for Site Maintenance and repair of Diesel Engine Machines
- General Repairs of Diesel machines including Engines, transmissions, and Brake systems
- Fabrication of Components to suit site requirements

Diesels - Differential and Engine Overhauls

Alfabs Mining Equipment prides itself on delivery of quality, fit for purpose equipment. At our Unanderra branch, we offer complete overhaul and repair services on differentials and engines on diesel equipment.

Offering quick turnaround time services by holding key parts and consumables in our onsite store to ensure we can start any repair and overhaul straight away.

Our skilled team of professionals will strip down the engine or differentials, create a scope of works and quotation for our valued clients. Once confirmed, our team will get started on all repairs using quality parts and consumables whilst maintaining industry standards, and ensuring all required testing is completed throughout the process.

Alfabs Mining Equipment offers fixed priced agreements and warranty on differentials.

** Terms and Conditions Apply

Field Service

With a fleet of field service vehicles and technicians, Alfabs supplies:

- Onsite servicing
- Onsite CODED overhauls



WORKSHOP AND FIELD SERVICES

Hydraulics Testing Area



This is in the fitters shed, where they are stationed

Located at the Mining Facility in Kurri Kurri, the fitters workshop is equipped with a bunded area, with the ability to hold up to 2 QDS Boar Bolters at a time. This area is heavily utilised by our trade qualified employee's as;

- A bunded area to collect waste oil, this reduces our use of dry sorb, allows us to decrease our footprint on the environment by ensuring our oil is not tracked or spilled externally to the sheds and we are able to recycle the waste oil
- A strip down area to conduct decommissioning on equipment upon return to our workshop facilities
- Testing of hydraulic components on equipment returned
- Safety area where hydraulic components are tested to ensure our employees are not in the vicinity of powered and moving equipment throughout the testing procedures

Bolting Testing Area

Alfabs Mining Equipment prides itself on delivery of quality, fit for purpose equipment. One of the tools we use to test and demonstrate our bolting equipment is the bolter testing area.

The bolter testing area was developed for our team to simulate bolting operations underground. Utilising a large concrete block suspended by an engineered frame allows our team to operate bolting equipment safely whilst placed underneath. The concrete block is fixed to the frame enabling the operator to drill into and bolt into the concrete block, simulating usual underground bolting operations to ensure the equipment is fit for purpose.

We have various strengths of concrete blocks ranging from 20 Mpa to 80 Mpa to choose from. This allows us to test various types of bolting equipment from Coal to hard rock.



On-Site Services Trailer (NDT Trailer)

Alfabs Mining Equipment has the ability to supply our clients with an on-site asset's management solution for their QDS attachments, trailers, auxiliary items, diesel equipment, work platforms, fixed plant and infrastructure. This include blasting, painting, non-destructive testing and welding.

With a team of qualified personnel and a mine compliant on-site services trailer, we can help our clients save both time and money with coming to site to inspect their fixed plant and equipment. Using our superior testing methods and procedures will ensure our clients remain compliant to the highest standards.

OUR EQUIPMENT:

- Dustless Blaster
- Welder
- Generator
- Compressor
- Protective Coatings Equipment
- Equipment size and specifications are adjustable to accommodate varying sizes of jobs

COMPLIANCE:

- Adherence and development of WHS policies and procedures
- Inducted and trained personnel
- Australian standard compliance
- MDG compliance
- Manufacture of decals for equipment
- Written reporting

WHY THE ON-SITE SERVICES TRAILER?

- No Transport Costs
- No re-introduction to site
- Reduction in "out of service" time
- Inspection by management can occur at the time of job completion
- Environmentally friendly, dustless blasting technology
- Immediate repairs can be carried out
- Plant and asset NDT compliance (as per OEM and/or site specifications)
- Equipment registers maintained for all equipment



Poo Pod Servicing

The Alfabs 40 Man Toilet “Poo Pod” has a pump inside the toilet that is operated by a compressed air line which moves 700 litres of water around inside. This creates an aerate environment in which actizyme is added to on a weekly basis. This breaks down human waste material in the toilet system.

Under normal conditions, the water waste evaporates slightly each week, so there is no need to empty or pump out the toilet.

With a team of qualified personnel and at our client’s discretion, we can offer onsite toilet servicing on a weekly, fortnightly or monthly basis.

Our team has undergone strict training on managing our “Poo Pod” toilet systems in the safest way possible by adhering to strict policies and procedures. With the ability to strip, assess and conduct minor works on site or underground ensures the Poo Pod is in an adequate operational state at all times.



DIESELS

Alfabs operate a fleet of 15 LHDs, all with the Torque ExDES Engine packages. Our diesels can help reduce your operations fixed costs.

Alfabs store hold a vast array of spare parts for our Diesel Equipment - SMVs, Titans and Camels. Our filter and servicing kits are available at all times to ensure our clients have a quick lead time and minimal delay to their production.

A range of consignment stock options such as site sheds, toolboxes or containers are available with an Alfabs representative restocking on a fortnightly or monthly basis.



**Speak to your Alfabs
Technical Consultants about
how they can save you up to
\$250,000 P.A. per machine!** ””



DIESELS

10T TORQUE TITAN LHD

The 'Titan' Underground Utility Vehicle is a combination of all the good ideas from the market leading underground utility vehicle manufacturers, plus the introduction of new technology and logic.

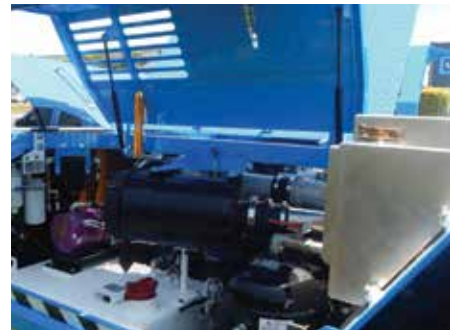
The key to a successful underground utility vehicle is the explosion protected diesel engine system design. The Explosion Protected Diesel Engine System has set a new benchmark in productivity, diesel particulate management and gaseous emission control. All this while reducing the whole of life running cost.

KEY FEATURES

- < 10mg/m3 Pre-Filter DPM
- 0 DPM Post Filter
- 35 Hours Filter Life
- 70% Carbon Monoxide Reduction
- 7m3 Ventilation Requirement
- Low Whole of Life Running Cost
- Productive
- Increased Accessibility
- Comfortable
- Low Fuel Consumption
- Owned, Made and Designed in Australia

PART DESCRIPTION	PART NUMBER	DESCRIPTION OR QUANTITY USAGE EXAMPLE
DPF Filter Kit	800040	35 Hour Filter Life Minimum 18 to a pallet, 1 box per machine contains 2 filters and DPF kit
50 hr Service Kit	800005	50 hr Weekly Service Kit
250 hr Service kit	800031	250 hr Service Kit
1000 hr Service kit	800126	1000 hr Service Kit
Tow Pin	800240	Manual Tow Pin





DIESELS

7T and 10T CAMEL

The Alfabs Re-Powered 7t Camel LHD utilises the TE ExDES Powered Engine package and as such the end user will benefit from these amazing cost savings.

- Explosion Protected Diesel Engine System
- Diesel Particulate Filter life - consistently 45 hours
- ExDES Filters remove 100% of the measurable Diesel Particulate
- Reducing ExDES running costs by 70 %
- Mechanical Fuel injection
- Electronic monitoring of Gas & Coolant temperature
- Closed joints on inlet and Exhaust Flame traps
- 1-piece billet exhaust manifold
- Catalytic Convertors placed at the sweet spot to ensure optimum
- Maximum Utilisation with less Maintenance Labour and less Downtime
- Increasing Productivity
- Creating a Safer working Environment
- Greater Reduction to Environmental Impact

With the Alfabs Re-Powered 7t Camel LHD, this is what the Cost Savings look like:

- 1. ExDES Filters** – Since the introduction of the re-powered package and thousands of productive hours on the machines, Alfabs, in consultation with our customers have accurately determined the filter savings to our customers. In the current economic climate, a reduction in filter spend represents significant reductions to your mine sites' fixed costs.
- 2. Increasing Productivity** - On average Alfabs customers have found a substantial amount of Labour Hours saved per shift. This is due to less work required with Pre-Starts along with the added benefit of not having to stop for water.
- 3. Maximum Utilisation** – Alfabs have identified a significant improvement in the availability of the equipment when compared to our competitors. Some machines now have over 2000 hours without a breakdown recorded. That's an outstanding result!
- 4. Emissions** – ExDES Filters remove 100% of the measurable Diesel Particulate during the consistent 45-hour period of use. This creates and promotes a cleaner working environment. This represents a commitment to best practice when it comes to Emissions Compliance and Safety.

PART DESCRIPTION	PART NUMBER	DESCRIPTION OR QUANTITY USAGE EXAMPLE
DPF Filter Kit	800040	35 Hour Filter Life Minimum 18 to a pallet, 1 box per machine contains 2 filters and DPF kit
50 hr Service Kit	800005	50 hr Weekly Service Kit
250 hr Service kit	800007	250 hr Service Kit
1000 hr Service kit	800009	1000 hr Service Kit
Tow Pin	800240	Manual Tow Pin

THE CAMEL

TOUGH, CLEAN & MEAN



DIESELS

SMV DRIFTRUNNER

Driftrunners have been designed for the transportation of material and personnel on mine sites.

F Series – Capacity to carry 11 personnel, forward facing (1,500kgs)

G Series – Capacity to carry 12 personnel, side facing rear seats (2,000kgs)

Our client's site-specific requirements are what matters most. Driftrunners are a cab/chassis set up and can be modified to a number of different configurations in the rear, allowing our clients a cost-effective and safe means of transporting personnel and materials. A ute back set up can enhance production and output for our clients by allowing more space and room for materials to fit. A dual cab or split cab configuration can be hired to fit more employees in the vehicle at any given time, meaning higher numbers of crew members can be transported.

These vehicles have an explosion proof diesel engine system ensuring they are compliant for operation in underground mines. Installed with on-board methane detection systems, fire suppression system, solid tyres and seatbelts, our driftrunners built to the highest quality and safety standards.

Built to operate in the tough conditions in which a mine will present, a Driftrunner provides our clients with a versatile, reliable and valuable piece of equipment to enhance their daily operations.

PART DESCRIPTION	PART NUMBER	DESCRIPTION OR QUANTITY USAGE EXAMPLE
50 hr Service Kit	800042	50 hr service kit
250 hr Service kit	200763	250 hr service kit
Front Diff	200427	Spare SX diffs
Rear Diff	200428	Spare SX Diffs



LONGWALL RELOCATION EQUIPMENT

From providing our clients with high end longwall relocation equipment to taking proactive steps towards elimination of identified incidents and risks on our client's sites.

Longwall Pan Picker

Designed for the removal and installation of pans on the longwall. Alfabs Longwall Pan Picker has a tilt function on both sides and side shift movement to allow LHDs to be further away and in a more accurate position to install and recover pans, even on uneven lines.

Our Pan Picker relies on swivel locking tongues featuring lateral moving tongues to allow for the more precise and secure engagement even when not aligned.



Rack Bar Lifter

Installation or removal of rack bars along the longwall face to eliminate any need for manual handling. Our unit is supplied with individual brakes and a winch that also contains a braking system to prevent rack bars from dropping. Our lifter has been designed to allow for spreading of the legs to ensure correct engagement into the rack bar to manage any risks of dropping.



Salvage Pump

The Alfabs Salvage Pump is designed as a safe and effective means to supply Solcenic water / oil mix to components from the longwall which are brought to the surface. It is fitted to a fork set to allow for ease of attachment with LHD or Forklift machines commonly used in coal mines. Its design incorporates a range of features to ensure safe above ground operation.

FEATURES

The system includes numerous shutdown safety valves and sensors fitted with a soft start feature and accumulators to remove system shock.

This unit is fitted with a Joy Master Dump Valve, which allows us to use a remote E-stop, that when activated dumps all pressure in the lines between the pressure outlet and the component.

- Motor and gear box to turn the Pump to distribute the Solcenic fluid
- Solcenic fluid water / oil mix Tank
- Diesel Tank
- Safety shutdown sensors
- The Design is intended for use ABOVE GROUND ONLY



DEVELOPMENT AND PRODUCTION EQUIPMENT

Roof And Rib Bolting

QDS Boar Bolter

OVERVIEW

“B.O.A.R.” – Bolt Overhead And Ribs

The BOAR Bolter is the market leader in roof and rib bolting for ground support in underground mines. With a proven design, Alfabs Mining Equipment now have over 70 BOAR units in operation with some units being over 10 years old. With regular maintenance and servicing these units are operating and performing like new!

The Alfabs QDS Boar Bolter provides our clients with a safe and efficient way of installing roof and rib bolts for ground support in underground coal mines.

The Bolter is suitable for use in high areas with a maximum working height of 4.26m.

WHAT SETS OUR BOAR APART FROM OTHERS?

The use of hydraulic rotary actuators allows the operator to have unprecedented control of the bolting rig.

Mesh Jack Cylinders are designed to provide a safe and efficient means of handling and installing mesh during bolting operations. Stability jacks are fitted to the bolter to reduce stress and movement on the basket, LHD Machines and the operator.



FEATURES

- Standard Supply is QDS with Rexroth Controls and JOY HFX Rigs
- All Valve Banks are MDG41 and MDG35.1 compliant
- On-Board storage for bolts chemicals and consumables
- Onboard pressure filter
- Replaceable grated flooring to prevent slips and trips, as well as reducing material build up
- Extensive steel guarding to limit operator exposure of hydraulic fluid

Our highly skilled team of professionals are available to assist you with all of your site-specific requirements. The QDS Boar Bolter has a wide range of optional extra's and modifications. Alfabs clients can tailor these units to suit their sites. Some optional extras can include:

- Additional E Stops
- Hi-Lo Functions
- Fire Extinguishers
- Flow Dividers
- Lobster cable feed head plates
- Alternative valve banks
- Alternative Drill Rigs
- Percussive drilling options
- To fit KAT, RAS or QDS

SPARE PARTS (Top 5 parts)

- Fixed Price TSRU Repairs
- Mesh Cylinders
- Bolting Baskets
- HFX Feed Chains
- HFX Feed Rollers

COMPLIANCE

- Hosing compliant to MDG41
- Hydraulic circuit and components have been designed to MDG35.1.



DEVELOPMENT AND PRODUCTION EQUIPMENT

Roof And Rib Bolting

Air Track Bolter

An air over hydraulic system that is designed for installation of secondary support, roof repairs and maintenance. This drill rig is mounted on a tracked crawler frame where the drill assembly is boom mounted to allow a high degree of articulation and access to awkward and tight places.

OPERATIONAL MODES

Vertical drilling takes place with the drill body seated and braced on the floor or with a suitably raised bench or structural support to ensure the Air Track Bolter is stable for this mode of operation.

FEATURES

- Hydraulic actuators allowing feed frame to be tilted backwards and forwards
- Ram/actuator is used to lay the feed frame over the boom for transportation
- Air/water mist systems providing reduction in water used in drilling, reducing water pooling on the floor
- 2 tie down points stationed each side of the rig for transportation
- Optional or site-specific feed frames can be fitted to the air track
- Filter preventing objects entering the valves extending the life of the machine



DEVELOPMENT AND PRODUCTION EQUIPMENT

Roof And Rib Bolting

Multi Bolter

The Multi Bolter allows a continuous miner to cut and load coal and not be held up by bolting operations. Once the miner has pulled back from the coal face, the Multi Bolter can drive into the heading and complete the bolting operations.

FEATURES

- Temporary roof support installation
- Front and rear stabilising jacks
- Platforms at the front of the bolter lower and raise
- Hydraulically driven tramming
- 2 operational modes – bolting and tramming

DRILL RIGS

- Fitted with Four ICM3 Model Roof Bolters
- The Outer Roof Bolters can slide left and right as well as Tilt
- The Inner Roof Bolters have Tilt Function
- Two ICM3 Rib Borers are fitted

WATER CIRCUIT

- Supplies the Bolting Rig with Water for Drilling
- Cools Hydraulic Oil
- Back Flush Filter is mounted on the rear of the machine to Filter Incoming Water
- A Regulator sets the Water Pressure
- A Trickle Feed Outlet allows Hydraulic Cooling when Bolting
- Fitting Outlet is fitted to recirculate Cooling Water when being used with a Power Tram
- Washing Outlets Located at the Rear of the Machine close to the Bolting Platforms





DEVELOPMENT AND PRODUCTION EQUIPMENT

Development Panel Supply System Package

One of our valued clients came to us requesting a range of various equipment to assist them throughout the development phase of their operation. Our design team compiled a set of varying equipment types to decrease man hours spent on manual handling operations and length of time in the transportation of consumables from the surface down to the continuous miner developing horizontal and sub-horizontal drifts.

This Development Panel Supply System (DPSS) is a mixture of standard and redesign equipment our drafting and design team are experienced in, enhancing performance, safety and operation. Alfabs Mining Equipment conducted testing and trials to ensure reliability and to have extensive life spans which means better quality, long term products – value for money!

Each piece of equipment can be altered, re-designed or changed to meet our client's site-specific requirements, we understand that each site is different, which is why ensuring that your equipment is tailored to your needs is vital to enhancing production.

Chemical Pod

Transporting and storage of chemicals that are on pallets. The chemical pod can hold 1 x 1800mm wide pallet and 2 x 1200mm wide pallets. .



Oil Pallet Pod

Fits pallets inside the oil pod as a safe means of transporting pallets of oil underground. With a bund wall between, you can separate various oils and greases to each side to ensure there is no contact or mix up of pallets.



Mesh Pod

Carrying roof and rib mesh laying down or standing vertically to the development panel. Fits roof mesh 5000mm x 1350mm laying down flat and 2000mm x 1400mm rib mesh laying down.



Bolt Pod / Plastics Pod

The Bolt Pod / Plastics Pod is designed to store and transport rib bolts, plates, W plates, cable rollers, cable roller dowels and bolt hold pipe hanging brackets in a timely, safe and efficient manner.



DEVELOPMENT AND PRODUCTION EQUIPMENT

Vent Tube Carrier

Carting vent tubes down roadways to be installed for ventilation requirements. Fits 10 vent tubes per pod, 2 wide, 2 long and 2 top centre for transportation. Vent tube rubbers can be stored in the rails on the side of the pod and vent chains to be stored on the red side rails.



Bolt Pod Cassette

Holding bolts (consumables) for the continuous miner for face operations, these are larger than the standard and average cassettes to allow for the maximum number of bolts to be carted at one time. The design takes into consideration the ease of loading and unloading to support several types of continuous miners.



Braked Cassette Trailer

Designed for carrying 4 Bolt Pod Cassette Carriers from the surface down to the continuous miners. Its design includes a removable upper deck and slides, a fitted pivoting A frame to allow for ease of travel, solid tyres, braking system and rudd lugs for securing cassettes to prevent unplanned movement.



Rubbish Oil Drum Pod

Carting used oil from underground to the surface. Incorporates a bund wall around the interior to prevent substances from leaking should any containers rupture or spill inside. When unloading waste oils, open the door once at the desired disposal location, remove drums and then remove the waste oil drum bund plug to discard any spilled oil in the pod.



Racker

The Racker has been designed to minimise manual handling on site. By providing a safe means of loading and unloading cassettes from the bolt pod cassette trailer to the continuous miner. Proven to minimise man hours spent moving bolts from the transportation and onto the continuous miner.



Tyre Handler

We understand that breakdowns cause delays in production. With the Tyre Handler our clients have a safe means of transporting and changing out tyres on mining equipment, less loss of time, less manual handling.



Garbage Sled

Removal of rubbish / waste from the roadways throughout production by holding a 4m³ bin inside the walls of the pod. Safest means of transportation would be for the 4m³ bin to have a lid.





DEVELOPMENT AND PRODUCTION EQUIPMENT

Work Platforms

Working at height operations poses falling risks for personnel. The Alfabs Single and Double Work Platforms are designed to provide a safe working environment when working at a height. Our design includes a fully enclosed area with spring-loaded self-latching gates, harness points and a pneumatic circuit designed to operate in the event of an emergency.

The standard work platforms are fitted with a QDS attachment, but this can be re-designed to suit other LHD machines should a site require.

- Spring-loaded, self-latching gates
- Harness points
- Fork tyne pockets
- QDS attachment or other
- Non-slip mesh flooring (easily replaceable)
- E-stops
- Emergency Egress Ladder
- Storage areas

Single Work Platform



Double Work Platform



DEVELOPMENT AND PRODUCTION EQUIPMENT

Work Platform Accessories

Our work platforms come with a range of different accessories to assist with pipe, vent, beam, cable and pipe installation and uninstallation. Our designs can be altered to suit your site requirements or any additional designs can be made to improve on our client's production time and/or reduce manual handling where possible.

Vent Tube Holder



105124 – Work Platform Vent Tube Holder

Pipe Rollers



AE-NCO-PH-001



AE-NCO-PH-002



AE-APP-PH-001

Cable Rollers



AE-CABR-SBD-001



AE-CABR-250-002



AE-CABR-SBD-002



AE-CABR-WAM-001



AE-CABR-SBD-003



105931



AE-CABR-250-001

DEVELOPMENT AND PRODUCTION EQUIPMENT

Buckets

With an Eject and Non-Eject bucket available, Alfabs have designed various sizes of buckets to collect, transport, load or unload materials for our clients.

The Eject buckets are fitted with a hydraulic circuit to delivery pressure to two cylinders that allow movement of an ejector plate to safely empty the contents of the bucket.

***** Rock Bucket Upgrades Available *****

To discuss an option for the rock bucket upgrade on a 2.1, 3.1 or 3.8, contact your local sales representative



Forksets

To assist our clients in the transportation of palletised loads and movement of equipment on their site. Fitted with a QDS attachment plate, our forksets can be changed and redesigned to suit other LHDs.

- 7t Manual
- 7t Hydraulic
- 9t Manual
- 9t Hydraulic
- 10t Manual
- 10t Hydraulic
- 12t Manual
- 12t Hydraulic



DEVELOPMENT AND PRODUCTION EQUIPMENT

Ventilation

VENTILATION DOORS

The ALFABS Ventilation Door is a unique design with split opposing doors to eliminate doors blowing open and closed due to high pressure. The Ventilation Door has the capability to be both opened and locked from both sides. The same air pressure that assists in opening, also assists in closing it, consequently air pressure is equalised. The ALFABS Ventilation Door is rated at 35 kPa and has large openings to aid in emergency evacuations when wearing CABA or using stretchers.

- **2 Psi Door**

The door is relatively light weight and can be easily installed by two persons. With safety and emergency procedures in mind, the 2psi vent door is large enough to allow for easy passage and escape. With the ability to be opened and closed from either side of the door, this is a great multipurpose door suitable for most mining conditions.

- **5 Psi Door**

The doors are available in 3 different sizes, 1240mm, 1600mm, and 2100mm with a standard width of 1100mm. They can also be custom built to suit your requirements. They have been designed for easy maintenance and are provided with an installation safe work procedure.



DEVELOPMENT AND PRODUCTION EQUIPMENT

• Access Doors

Broad range of standard access doors with a proven track record of performance in Australian conditions.

- Portal doors for clients such as BHP Billiton.
- Custom designed and purpose-built segregation doors for clients such as the Ballarat Goldfields.
- Electric/hydraulic power doors containing both sequence and locking valve arrangements.
- Access doors with twin control systems – local push button stations either side of the doors and remote radio-controlled handsets.
- Operating door cylinders are fitted with closed position sensing proximity switches to ensure that the doors cannot be operated simultaneously.
- The product range includes 20 Psi, 10 Psi, 5 Psi, 2 Psi and non-rated access doors.



- Air Regulators

Purpose designed to suit specific size opening and ventilation requirements.

- Drop board regulators consist of two vertical steel rails placed on each side of the airway
- Steel louvers are variable regulator devices
- Heavy duty steel ventilation doors allow passage of people, vehicles and materials and can completely seal off an airway or partially seal by incorporating an opening, often covered by a sliding panel
- Rubber mesh regulators are easy and cost effective to install



DEVELOPMENT AND PRODUCTION EQUIPMENT

• Coffin Seals

Baffle Boxes are manufactured under a triple ISO system for quality, safety and the environment.

- Effective resistance to air flow facilitating coal flow on the belt.
- Airflow resistance is measured and assessed in situ for each mine.
- Manufactured to suit each mine conveyor structure.
- Manufactured to suit 1050mm - 2000mm belt conveyor structures from one bay and two bay.
- Coffin Seals mounted on one bay, three, four and five bay box structures.



- Mine Sealing Emergency Doors

Minimise the risk of spontaneous combustion and potential contamination of mining Ventilation systems.

- Standard and purpose designed and manufactured emergency sealing doors for portal and access drift entries.
- Durable steel devices to separate atmospheres in the event of an emergency.
- Engineering rated emergency doors to mine requirements.



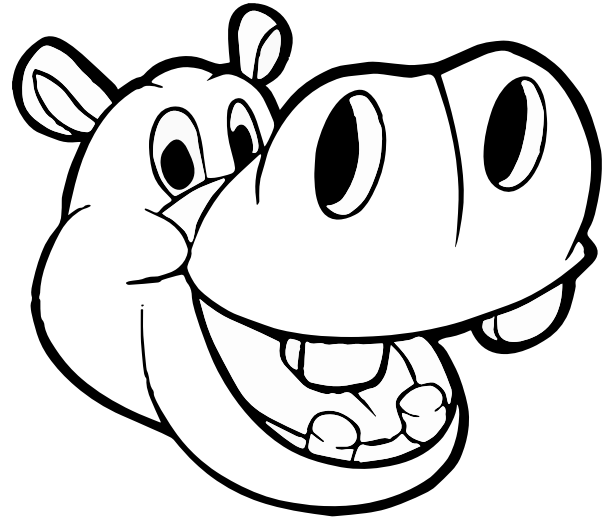
RUN OF MINE EQUIPMENT

MH40 Bucket “Hungry Hippo”

The Alfabs MH40 is designed for the safe and efficient means of transporting and distributing 10 cubic metres of road base and other similar materials.

Its design includes hydraulic cylinders to control the opening of the front lip and raising of the rear module as well as locking tabs to secure the bucket to the Machine.

It is fitted with Fork Tynes pockets designed to be used by an MH40 and features two locking tabs to secure the attachment to the LHD.



HUNGRY HIPPO



Concrete Kibble

Transporting and delivering concrete, designed to contain all material with no spillage.



Road Leveler

Manufactured with a high strength grade of steel, capable of withstanding the toughest road material to perform road maintenance. Fitted with hydraulic cylinders to allow for operation on cross grades. Ability to be fitted with manual or hydraulic scarifiers to perform ripping operations also.



Grader Blade

Levelling and flattening the road surface, installed with a hydraulic circuit to enable the operator to change the levelling gradient.





RUN OF MINE EQUIPMENT

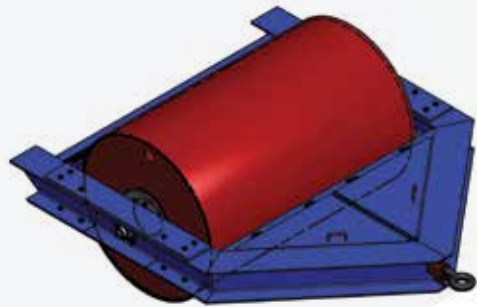
Road Sweeper

Designed to be transported on an LHD for road sweeping purposes.



Road Roller

Designed to be used with a QDS tow plate, allowing for ease of attachment to an LHD to perform road maintenance.



Rock Hammer

Safe and efficient means of breaking rock, concrete and other common materials found in mining. The rock hammer's design incorporates the use of a hydraulic circuit to cycle the chisel at 600 blows per minute.



Salt Spreader

The salt spreader is designed with a hydraulic flinger to spread salt for the roadway, manufactured with a stainless-steel hopper and galvanised frame to prevent any rust, thus ensuring a longer life span. Screen fitted to the top of the salter to break up any compact salt. Our salt spreaders use hydraulic pressure supplied from the LHD to power a motor to spin a flinger blade to throw the salt in the required direction.



Single Salt Spreader



Dual Salt Spreader

Water Cart

Transportation of water, incorporating a spray bar to wet the road surface. Our water carts are fitted with inspection hatches to allow for ease of cleaning and inspection.



Skip Bin

Containing scrap and rubbish in a canal location, our skip bins are fitted with a QDS attachment for ease of movement with an LHD.



ANCILLARY EQUIPMENT

All of our pods can be modified, changed or completely redesigned by our team here at Alfabs Mining Equipment. By contacting your technical consultant, we can assist you with the best possible design to suit your sites requirements.

Our team is here to combine and package equipment to ensure your teams have safe, efficient and time effective products that assists with outputs and production.



ANCILLARY EQUIPMENT

Poo Pods (40 Man Toilet Pod)

UNDERGROUND TOILET SYSTEM

The Alfabs Poo Pod is an air operated self-contained biological toilet, the waste is deposited directly into an aerobic treatment processes.

There is no odour or effluent under normal conditions. This completely eliminates the need to bring the poo pod to the surface for emptying and servicing as with conventional systems. You can also purchase or hire a privacy screen when you hire an Alfabs Poo Pod.

As there is no odour or effluent, only a small amount of completely clean, odour free sludge needs removal.

This eliminates the task of transferring night soil from latrines to a central disposal point normally associated with conventional sanitation systems and also results in significant manpower savings. Maintenance is a simple on the spot operation performed approximately every 18 months.

HOW DOES IT WORK?

A pump inside the toilet that is operated by a compressed air line which moves around 700 litres of water around inside the toilet. It creates an aerated environment in which an actizyme is added on a weekly basis to breakdown all human waste material. Under normal conditions, the water inside the toilet evaporates slightly each week, so there is no need to empty or pump out the toilet.

Ask your technical consultant to provide you with a copy of the cost saving benefit analysis, comparing the Poo Pods to other products on the market.

FEATURES AND BENEFITS

Some of the main features and benefits of using the Alfabs Poo Pod Underground Toilet includes:

- Under normal conditions, there is NO physical contact with human waste
- The toilet can remain underground for up to two years with NO emptying or pumping out required
- When used with the Privacy Screen, it creates a clean, private, comfortable & safe environment
- Contains a storage cupboard to hold additional consumables & toilet paper
- Features a hand wash basin and tap



Poo Pod Toilet Surround



ANCILLARY EQUIPMENT

Belt Splicing Pod

Carries 3 tonnes of belt splicing equipment including bars, plattens, bolts and more. Our Belt Splicing Pod enables the safe and effective means of transportation and storage.



CABA Storage Pod

CABA Storage Pod has shelving fitted with shock absorbing material to prevent any damage to CABA self-rescuers during transport, waterproof doors with gas struts for ease of opening and closing and holds 6 or 21 units.



CABA Quick Fill Pod

Designed for a quick, easy and safe means of refilling CABA self-rescuers during an emergency evacuation, featuring rated storage tanks, stainless steel piping and pressure gauges for monitoring and maintenance.



Cribroom Pod

Designed for seating of employee's, fitted with padded seating, stainless steel table tops, storage at the front and under the seats as well as an optional extra whiteboard. Our Cribroom pods come in a 6, 9 or 12 man set up.



Service Pod

Transporting, storage and dispensing of various oils such as engine, hydraulic, gear and grease oils. Inclusive of self-retracting hose reels, pneumatic pumps, bunded base and baffled tanks, we also offer an optional extra diesel storage compartment also.



Explosives Pod

A safe way of transporting and storing explosives, fitted with a heavy-duty door and door frame, timber lining, full length shelf, ventilation and locking/latching door.



Swilly Pod

Designed for the ease of sucking up water, slop and solid materials up to 50mm, our Swilly Pod can be used to empty sumps or swilly's as well as on roadways. Featuring 2 separate pumps, one to draw water/material and to the other to expel. These swilly pods can also be operated as a water cart and utilised for dust suppression.



Fuel Pod

For the safe means of transporting, storing and dispensing of diesel fuels. Designed with the intent to comply with MDG36, featuring a bunded base, filter system, self-retracting hose reel, pneumatic pump, time, auto cut off handle and loss of pressure activation fire suppression system.



Garbage Pod

Storage, transportation and removal of rubbish.



ANCILLARY EQUIPMENT

Lifting Chain Locker Pod

Transportation and storage of chains and lifting equipment.



Trades Pod

Transportation and storage of various tools and spare parts required by any team, it allows our clients a safe and dry storage place that is waterproof and lockable.



Materials Pod

Safe and effective means of moving palletised or bulk loads of various materials and consumables. Fitted with a QDS attachment for ease of movement by an LHD.



Structure Pod

Transportation and storage of conveyor belt structures.



Mesh Pod

Movement and storage of various sizes of mesh.



Adaptor Plate

Converting LHDs from a QDS cradle to a RAS hitch without needing to remove the QDS cradle.



Lifter

For the ease of lifting and moving pot dusters.



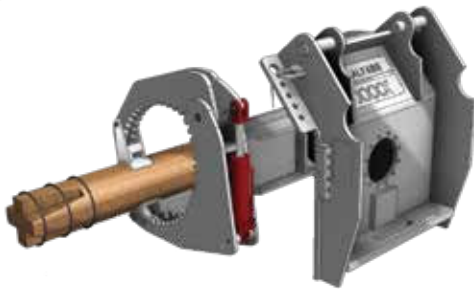
Can Clamps

Designed to transport and install roof support Cans, our Can clamps can rotate 90 degrees each way to allow for better and faster installation. Our Can clamps have a failsafe load lock cartridge to prevent the loss of the can in the event of a collision with the roof or rib.



Prop Setter Attachment

Alfabs Can clamp can be fitted with a timber prop setter attachment which reduces manual handling and the number of man power required. This increase the number of props that can be installed within an hour.



Auger

For boring holders, designed to use at 150mm to 600mm



Extendable Jibs

Attaching to an LHD, the extendable jib makes it ease to reach for equipment and tools to move or transport.



Skid Plates

Designed to transport larger and heavier loads around, it is dragged behind an LHD, secured with tow-points and chains, keeping it as low as possible. Our skid plates are designed with a heavy-duty steel base to ensure a long-lasting life span with relevant maintenance inclusive.



ANCILLARY EQUIPMENT

Cookie Plates

Transporting large or bulk items where our clients are able to safely secure the loads to prevent any movements. These come as a standard or swivel design, incorporating fork tyne pocket.



Cookie Plate - Standard



Cookie Plate - Swivel

Machine Stands

Machine stand for a safe means of supporting equipment.



30t Tow Bars

Designed for towing and moving broken down diesel equipment in the safest way possible, rated at 30,000kgs with 5,000kg rhd lugs.





TRAILERS

With the ability to change design or incorporate additional modifications and features, our team is here to support you with the most practical, safe and time efficient equipment we can. From braked to non-braked trailer, crib, fire and pipe trailers, we can support our clients with site specific products to suit their needs.

Ballast trailers for loading and unloading gravel through the belly or at the rear for dumping, crib trailers with a hydraulic manually jacked roof, flat top and sided trailers and fire trailers for fire fighting equipment to be stored and transported.





TRAILERS

Pipe Trailers

Alfabs Mining Equipment have designed and manufactured a Pipe Trailer that is designed for a safe and effective means of installing Victaulic Pipes ranging from 4 Inch to 14 Inch (100mm to 350mm) for Underground Coal Mines.

The design includes hydraulically operated cradle arms that position the pipe in line with the existing pipe range during pipe extensions or retractions.

FEATURES

- Modular Handrails - easily replaced if damaged
- Telescopic cylinders for lift arms
- Customised cylinders with counter balance valves in end caps
- MDG41 Compliant - Safer Hydraulic System
- Scissor Style Platforms
- Stronger Chassis upgrade to reduce flexing and cracking
- All functions are hydraulically driven & additionally, each control station has an emergency stop to apply park brake to the LHD
- Trailer can be towed from either end
- Store and transport pipes up to 6 and a half metres long

OPTIONAL EXTRAS

- Dual control station to allow for operation at either end
- The Pipe Trailer has also been fitted with brakes that utilise the LHD brake circuit & assist in braking during use and for parking purposes.
- Side shift function on lift arms
- Different sized claws for different sized pipes (4, 6, 12 or 14 Inch Pipe Standard Claws but Alfabs can customise these to suit any size you require!!)



Reduce manual
handling
on site.



TRAILERS

6t Flat Top



10t Flat Top



8t Flat Top



18t Braked Mega Trailer



8t Sided



Ballast Trailer



Cribroom Trailer



Fire Trailer



Mesh Trailer



STONEDUST

Bulk Stone Dust

BULK HANDLING FOR COAL MINE STONE DUST MEANS:

- Lower cost for Stone Dust supply
- Reduced handling cost for Stone Dust
- Improved health and safety regime
- Improved mine safety compliance regime

LOWER COST FOR STONE DUST SUPPLY:

- Stone dust is delivered in bulk via road tanker
- Cost per tonne delivered in bulk is cheaper because packaging and handling costs associated with bags, pallets and storage are avoided
- Transfer into on-site storage is done by the delivery driver
- Mine site labour and equipment is not engaged in unloading and storage
- On-site storage warehouse space for Bulk-A-bags and pallets of 20kg bags is not required
- Alfabs offers simple bulk storage solutions to enable receiving, storing, transporting, applying, transferring and dispensing Stone Dust

REDUCED HANDLING COST FOR STONE DUST:

- Time and cost of handling Bulk-A-bags can be eliminated/reduced
- Time and cost of handling 20 kg bags can be eliminated/reduced
- Storage and dispensing facilities offered for bulk transfer Stone Dust by pneumatic transfer to a range of equipment for:
 - Flinger
 - Hand Spray
 - Trickle Dusting
 - Set and Forget Type Devices
- Waste removal cost for used 20kg bags and used Bulk-A-bags is avoided

IMPROVED HEALTH AND SAFETY REGIME:

- Repetitive manual handling tasks associated with 20kg bags are eliminated
- Inherent risks of crushing and strain injuries while handling Bulk-A-bags are eliminated
- Dust exposure for those cutting and dispensing 20kg bags and bulk-A-bags is eliminated

IMPROVED MINE SAFETY REGIME:

- Effective handling and dispensing processes allow better management of Stone Dust application:
 - Excessively dusty flows are avoided
 - Absence of dust flows can be avoided
- Application processes that need to be done when mine workings are ceased can be done without interruption and downtime
- Effective equipment allows management to achieve regulated coverage with less chance of falling into non-compliance



FILLING LOADING LEVEL

INSPECTION LEVEL

Alfabs Group
of companies



ALFABS

STONEDUST SOLUTIONS
SAFETY / QUALITY / DELIVERY

REF NO: 20 / 81439
Email: info@alfabs.com

STONEDUST

Isotainer

Isotainer Model ITV-27-4 gives up to 32t stone dust storage per unit. Filters, hoses, and weigh scale completes the system.

- High volumetric capacity of 27 cubic meters allows the low tare weight to be used effectively.
- Designed to AS1210-2010 for pressure vessels. Design registration with Work Cover NSW is valid across Australia.
- Tested and certified compliant to ISO1496.1 Amendment 3.
- Less than 0.1 percent residual material after discharge - maintains full payload.
- Capital and establishment costs are low compared to fixed silos, and the mobility is far superior – fill and vent pipes can be added for a great on-site storage solution



Bat Bags

The Alfabs Bat Bag concept was developed to offer underground coal mines a more efficient and effective explosion barrier method than previous techniques such as water barriers and dust shelves.

The basic mechanism of extinguishing the explosion flame is considered to be the same in all passive explosion barriers, that is the dispersal of sufficient inert material into the airborne dust cloud, so as to render the dust clouds non-combustible. The delivery methods are similar with reliance on the pressure wave traveling ahead of the flame being used to overturn the dust shelves, or shatter the water tubs or rupture the stone dust bags.

The bagged barrier represents a significant change to the management of explosion suppression in underground coal mines. Several Australian mines changed over to this system during late 1999-early 2000, noting that installation was considerably easier, quicker, and less expensive than the traditional dust or water barriers.

Alfabs Group commenced production of the Bat Bag in 2004, and over the course of the next 5 years introduced them to every NSW coal mine. Over 90% of NSW coal mines now use Alfabs Bat Bags as their preferred explosion barrier. In early 2013 Alfabs Group began exporting the Bat Bag system to Mexico, Russia and South Africa to allow for a proven technology to create a safer mining environment.

After 10 years and over 2 million bat bags produced Alfabs Bat Bag explosion barrier still remains the most trusted and tested explosion barrier.



“ Short bag,
short hook –
approved,
approved,
approved! ”

STONEDUST

Airo Dusters

The Airo-Duster is the patented technology and the brand name for the manufacture and application of coal mine approved stone dust as a wet foam. The Airo-Duster additive is a complex blend of surfactants used as an integral part of the Airo-Duster process, to treat the stone dust applied to coal mine walls as an explosion retardant.

The use of Airo-Duster prevents the stone dust from caking and enables it to retain the required dusting action in the event of an explosion.

FEATURES

The Airo-Duster application as foamed wet stone dust slurry can be applied to both inbye and outbye operations.

- Increases production through reduced downtime
- Provides improved compliance in safety standards
- Reduces mine operating costs
- Simplifies sampling protocol
- Safe in the knowledge that the process will work to prevent the propagation of a coal dust explosion

APPLICATION OF STONE DUST

The Airo-Duster is a purpose-built trailer used to mix and spray slurry stone dust onto mine surface. Airo-Duster is a newly developed process that uses an Airo-Duster additive dosed into the slurry pump inlet at 10 litres of additive per tonne of stone dust.

This additive in conjunction with the on-board compressed air system, creates a highly vesicular foamed stone dust product that disperses in the event of an explosion.

The Airo-Duster trailer is a four-wheel trailer designed and engineered to carry 3 tonnes of stone dust and 1200 litres of water.

The trailer includes a slurry pump, delivering approximately 30 litres of product per minute. There is an Airo-Duster additive pump that delivers a calibrated amount of additive into the inlet of the slurry pump when the pump is running.

On the outlet of the slurry pump a specially designed mechanical foaming unit creates the combined mix of the air, slurry and the additive.

SPECIAL FEATURES

A slurry tank hydraulic cooler has been installed to provide cooling of hydraulic fluid prior to return to the LHD to reduce potential for overheating.

OPTIONAL EXTRAS

There are two types of spray options on the Airo-Dusting trailer.

1. Fixed Spray Bar
2. Hand Held Spray Wand

If the spray bars are required the operator attaches the supplied hoses between the foam outlet point and the spray bar connections. This can be done for either a single side or both sides simultaneously. If the hand held wand is required the operator attaches the required length of hose to the foam outlet point.



Increases production through reduced downtime.



STONEDUST

Flinger Duster Trailer

The Alfabs QDS Flinger Duster is designed as a safe and effective means to spread stone dust in an underground mine.

The Flinger Duster centrifugally casts the stone dust towards the roof and ribs of the section being dusted at a controlled rate. The machine consists of a hopper that delivers stone dust via a flinger blade and screw auger to the dual flinger motors. The Flinger Duster can be supplied in 2.4t & 4.8t capacity.

It is fitted to a QDS attachment plate to allow for ease of attachment with LHD machines commonly used in underground coal mines. Its design incorporates a range of features to ensure the safest operation possible

FEATURES

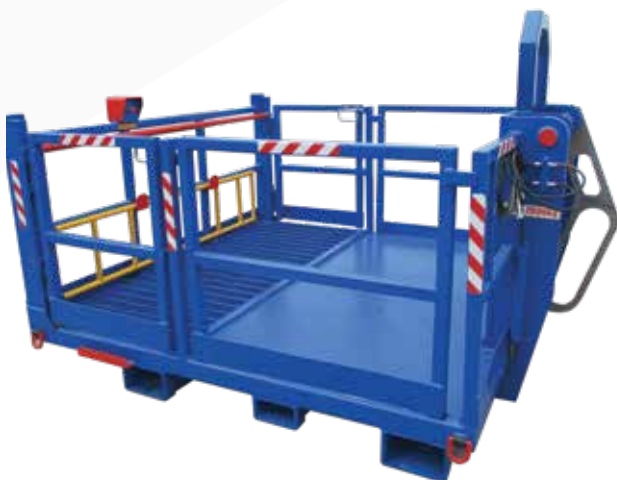
- Auger
- Motor driven flinger plates to evenly distribute the stone dust
- Designed to be used with current industry LHD machines
- Belt Splitter (Optional Extra – Not on Standard Trailer)



Bat Bag Work Platforms

“Bat Bag Installation”

The Alfabs Bat Bag Installation Pod is designed for the safe transport and installation of Alfabs Bat Bags. It features removable sides to allow for palletised Bat Bags to be loaded prior to transportation, an egress ladder and an emergency stop.



Flinger Duster



Micro Dusters



Pot Duster



Trickle Dusters



Pot Duster Trailer



CABLE AND HOSE MANAGEMENT EQUIPMENT

Alfabs cable management equipment provide our clients with the functionality to handle cables in a safer manner. The designs incorporate spools where cable is wound on meetings the industries best standards.

- Improving operators safety
- Accurate placement and retrieval
- Setting down and retrieving cable without manual intervention
- Minimisation of cable stress
- Ease of transportation from one location to another
- Custom designs to suit site specific requirements
- Spare parts and consumables support from the Alfabs Store across 4 locations
- Technical support and service on site and from 4 workshop locations



CABLE AND HOSE MANAGEMENT EQUIPMENT

Cable Reeler And Base (Crab) – Open Cut

MULTI-PURPOSE

Can be used as a cable test centre, lighting tower and storage; along with an option to include a gantry.

COST SAVING AND EFFICIENCIES

- Cable repair and or replacement
- Injuries and WHS
- Reduced start-up costs
- Increased productivity and reduced down time

CABLE REELER AND CABLE MANAGEMENT SYSTEM

The Alfabs cable management system incorporating the “CRAB” Cable Reeler is a revolutionary mining method designed and manufactured in Australia by mining industry experts to manage electrical cable used to power Draglines, Shovels and Drills. This method of mining using the Alfabs “CRAB” Cable Reeler supersedes current methods where valuable cables are dragged along the ground causing costly damage and even costlier production down time.

REDUCED LEGAL EXPOSURE TO ELECTROCUTION AND WHS

- Reduced cable damage and reduced contact from personnel with cable, reduces exposure to electrocution
- Reduced (near redundant) manual handling and heavy lifting
- Reduced expose to slips, trips and falls injuries

COMPLIANCE

- The Alfabs CRAB Cable Reeler & Cable Management System is designed to comply with:
- AS1418.10, AS1657, AS3006
- MDG15

CABLE MANAGEMENT

- Cables are no longer exposed to damage by plant, equipment & environment when stored and or dragged over pads & roads
- Bend radius of cable no longer exceeded during storage & or dragging of cable
- Powered by on-board 415v Diesel Generator
- Handles up to 700m of Cable
- On-board Lighting
- Traffic signals to instruct operators
- Auto Indexing arm for correct storage of cable
- Walkways designed to AS1657



CABLE AND HOSE MANAGEMENT EQUIPMENT

Cable Reeler Truck – Open Cut

The Alfabs Cable Reel Truck incorporates a Truck with on board Cable Reel. It is an efficient and safe method of picking up, transporting and laying out high voltage cables for draglines and electric shovels at a mine site. It is designed and manufactured in Australia by mining industry experts to assist in the management of electrical cables in an optimum manner. The Alfabs Cable Reel Truck assists to protect personnel and prevent damage to valuable cables to limit the costs associated and decrease production down time.

Reduced Legal Exposure to WHS

- Reduced cable and plug damage
- Reduced contact from personnel with cable,
- Reduced (near redundant) manual handling and heavy lifting
- Reduced exposure to slips, trips and falls injuries
- Reduced stretched/strained cables

Compliance

- AS1554.1 SP
- Mine Design Guidelines

Alfabs has currently utilised both Volvo and Kenworth trucks for the base of this product but can modify the Cable Reel design and deck to be utilised on a truck brand of our client's choice. With an experienced and professional design team, we can be sure to supply a fit for purpose, cost effective and quality product.







CABLE AND HOSE MANAGEMENT EQUIPMENT

Cable Boat – Underground

The Hydraulic Cable Boat is designed for the safe and efficient means of transporting and storing cables. It is fitted to a QDS attachment plate to allow for ease of attachment with LHD machines.



Multipurpose Reeler – Underground

The Multi-Purpose Reeler has been designed for the safe and efficient handling and transport of conveyor belt, electrical and steel cables. The belt/cable is picked up rather than being pulled or dragged across the ground minimising the chance of damage.

The Multi-Purpose Reeler is fitted with optional stabilising and also features an industry standard locking system on chucks which retains the spool and prevents loss.

Our Reeler can be designed to customers pre-existing spools. The Multi-Purpose Reeler has adjustable flow control to allow for speed adjustment and has an optional free wheel or two speed Hi/Low Functions.



Winches – Underground Approved

The Alfabs Winches have been designed to provide the optimum solution for the installation and removal of AFC chain during the longwall relocation process and conveyor belt installations.

The Winches have been designed to be transported by a range of current industry standard large LHD machines; The 10t and 20t Winches design incorporates the use of a QDS plate or locking tabs on the 50t Winch to secure the Winch to the machine to prevent movement during transport.

To prevent unplanned movement of the winch and the potential dangers associated with this, the winch structure includes securing points to be used in-conjunction with Roof bolts to bolt the winch to the mine floor. The winch also includes Tie-Back Rudd lugs to secure the winch to counter weights as an alternative method of securing.

To ensure operator safety and reduce potential risk hazards the Winches has been designed with the intent of complying with a range of standards.

- AS4024.1 Safeguarding of Machinery – General Principles
- MDG1 Guideline for Free-steered Vehicles
- MDG41 Guideline for Fluid Power System Safety at Mines
- AS1418.1 – 1994 Cranes, Hoists & Winches part 1 – General Requirement
- AS1170.0 – 1989 SAA Loading Code – Dead & Live Loads & Load Combinations
- AS4100 – 1998 Steel Structure Designs



10t Winch



20t Winch



50t Winch

Cable And Hose Reeler – Underground

The Hose Reeler is designed as a safe and effective means of transporting, storing and laying out air/water hoses in an underground mining environment. Its design incorporates a range of features to ensure the safest operation possible.



SPARE PARTS AND CONSUMABLES

Alfabs Group's Spare Parts and Warehousing Division is central to all manufacturing and maintenance projects.

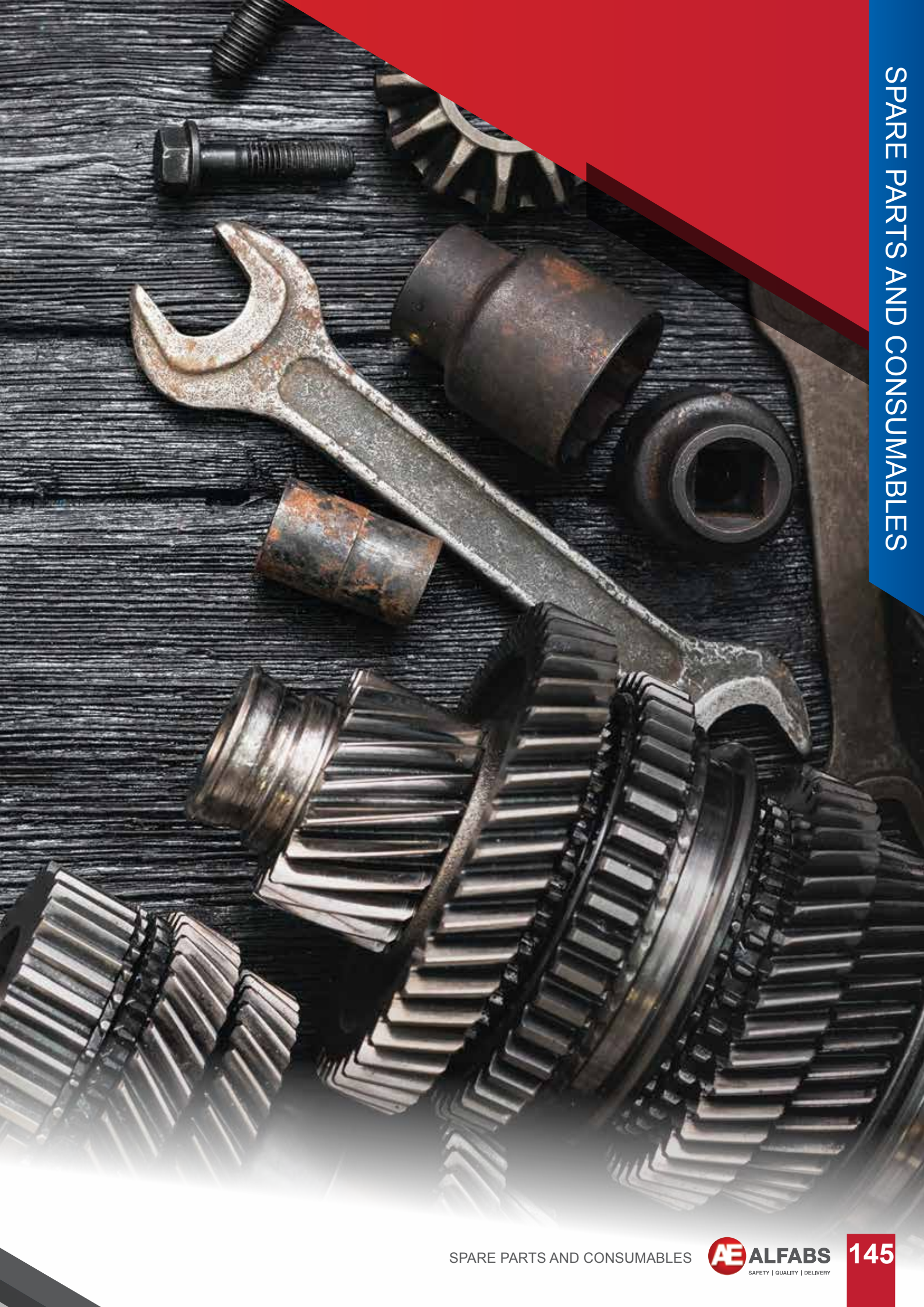
The Spare Parts and Warehousing Division manages a wide variety of components from raw materials, mechanical, hydraulic, tooling, chemical, safety, stationery and PPE for all Alfabs Divisions in Kurri Kurri, Wollongong and Mackay.

Our team have stock on hand ready for our internal operations as well as critical parts required for our clientele and their equipment.

All of our designed products come with a Critical Spares Part list which is our recommendation of spares to keep on site with any purchase or long-term hire. Critical Parts, should they fail, will result in equipment being placed out of service pending the availability of the replacement parts or alternate piece of equipment until any issues are fixed.

Alfabs can provide parts manuals with our equipment to ensure that when a breakdown occurs, the process for sourcing the required parts is made easy. It includes everything electrical, mechanical and structural.





SPARE PARTS AND CONSUMABLES

GreenFix

- GreenFix is an environmentally friendly non hazardous fuel conditioner
- GreenFix is a non hydrocarbon, non toxic, non flammable formula
- GreenFix dissolves sticky contaminants (waxes and varnishes) in the fuel supply and removes carbon deposits from the engine
- GreenFix contains lubricity enhancers which are beneficial to all fuels but particularly low sulphur diesel and ethanol blended fuels
- GreenFix absorbs the water present in fuel, enabling it to pass through the combustion process in a pure combustible state
- GreenFix helps to negate the Sulphur found in fuel and non ULSD Diesel to reduce toxic emissions
- Recommended dose 4000:1. 30ml treats up to 120 litres/ 30 gallons of fuel
- GreenFix works on all engines powered by either Diesel, Petrol or Bio Fuels



GreenFix improves lubricity by 7% - 20%. This significant improvement prevents premature wear of equipment and allows the equipment to operate beyond its intended design life. This increase in lubricity directly improves engine's performance, reduces engine temperatures and minimises maintenance requirements.

GREENfix

FUEL CONDITIONER



REDUCE HARMFUL EMISSIONS



- Significantly reduces harmful carbon and emissions
- Environmentally friendly
- Non-hazardous
- Non-toxic
- Non-flammable
- Safer working conditions for your employees

Reduce your carbon footprint and create a healthier plant

SAVE MONEY



- Measurable reduction in fuel costs
- After just one month achieve at least 3% reduction in fuel costs (average of 5 to 10%)
- Easy to use and implement

Save money the GreenFix way

IMPROVE ENGINE LIFE



- Extend injector life
- Extend oil changes
- Extend fuel filter changes
- Benefit from corrosion inhibitors

Create a healthier engine the GreenFix way

Reduces harmful emissions and saves you money

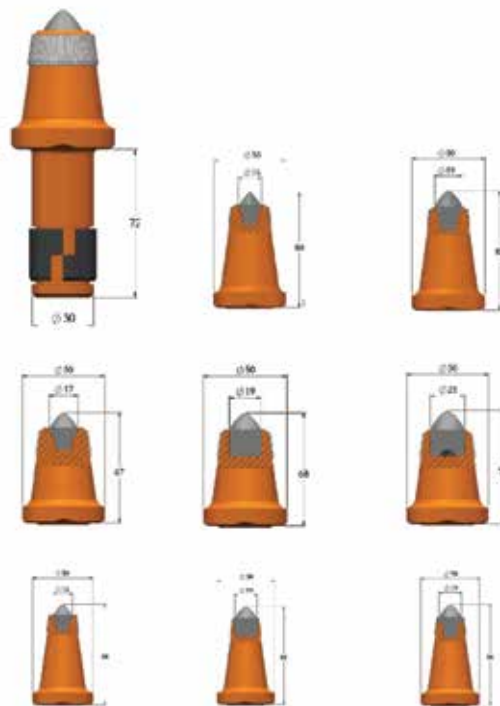
SPARE PARTS AND CONSUMABLES

Construction and Drilling Consumables

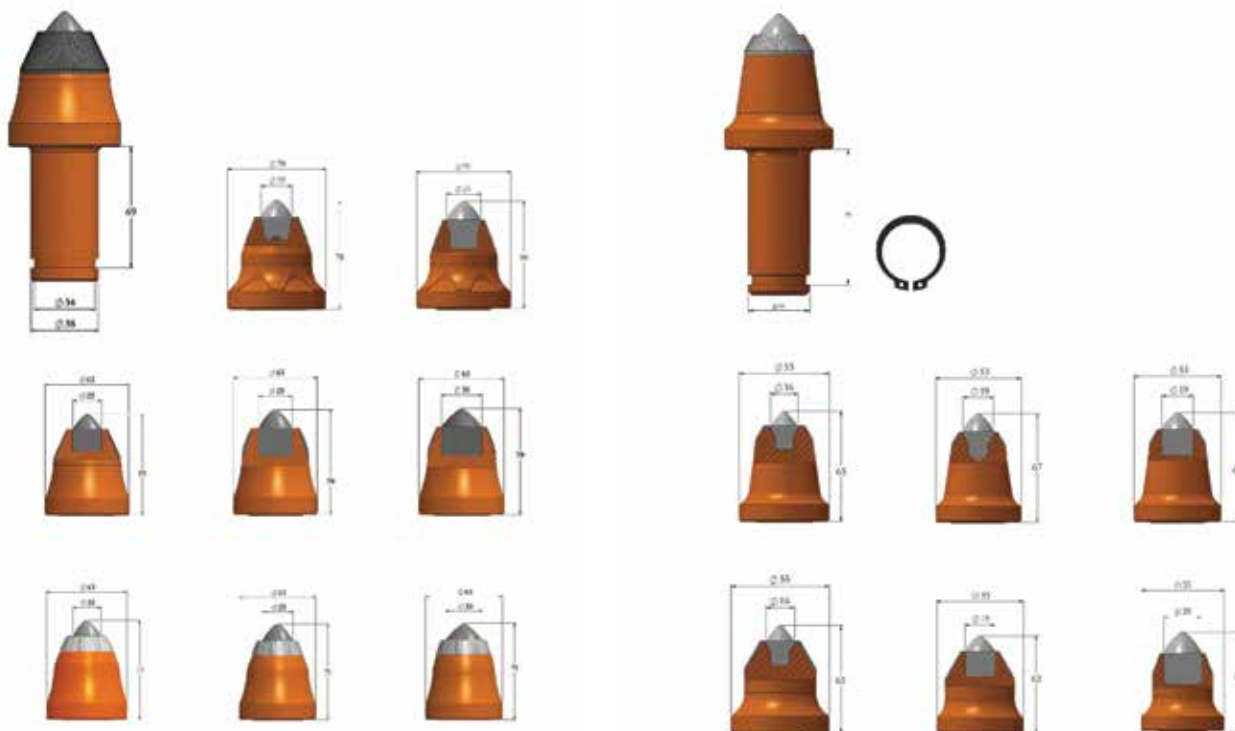
Picks

- The main body is standardised design
- The standardised shoulder style protects the toothholder
- The inner circlip provides reliable gripping force

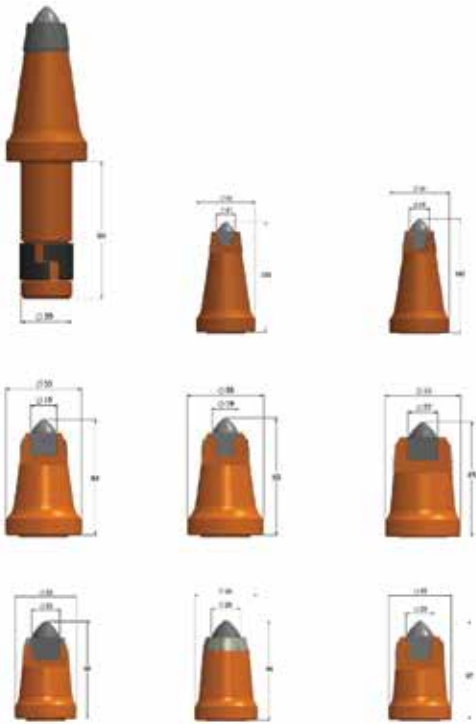
30 HANDLE SERIES



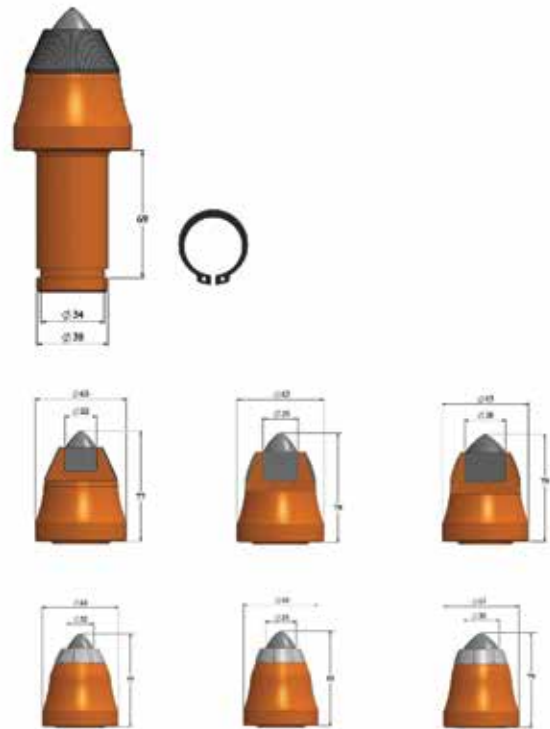
ROAD HEADER PICKS



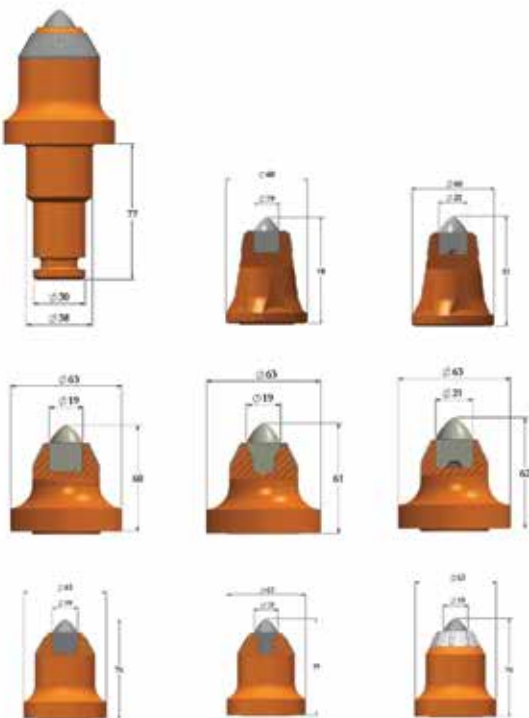
35 HANDLE SERIES



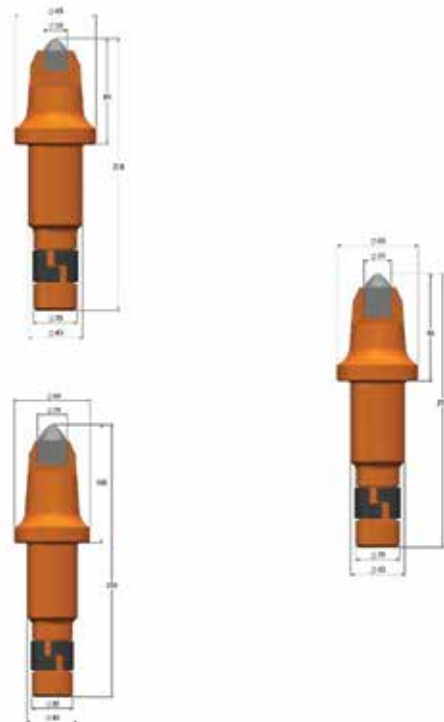
38 HANDLE SERIES



30-38 HANDLE SERIES



35-43 HANDLE SERIES



SPARE PARTS AND CONSUMABLES

Construction and Drilling Consumables

Wing Bits

The Alfabs Group is excited and pleased to announce our recent acquisition of LFP Mining.

With Lee Picasso at its helm, LFP Mining positioned itself at the forefront of the drilling consumables industry. With a focus on product development, quality and customer service, Lee built an enviable reputation.

This reputation was built on the back of “industry best” products and a constant motivation for continuous improvement.

Lee has built up a number of valuable client relationships and enjoys loyal support from those organisations with which he trades. His customer service was second to none, with a constant customer focus to ensure that his products were delivered on time and on budget.

Alfabs have long been a fan of Lee’s work, and when the opportunity arose to purchase Lee’s business, we jumped at the chance. Like his customers, we admire Lee and his quality products and customer loyalty.

As a team, we make the commitment to continue Lee’s legacy and dedication. Our focus will continue to be our customers, as well as delivering industry best products at competitive pricing. We vow also, as Lee has, to maintain our pursuit for continuous improvement.

Lee will still be within the business for a while to come. He is currently transferring his wealth of knowledge and skills into our team at the Kurri Kurri manufacturing facility. Ensuring that there is no change to the levels of quality for which he is famous.

As a keen winemaker, fisherman and woodworker Lee is looking forward to a well-earned rest. We are honoured to have the opportunity to help him with this and maintain the LFP legacy. From all at the Alfabs Group, our team wished Lee success in his new venture as “retiree”.

- Full Round (FR) PCD Bits
 - 27PCD FRD M16
 - 28PCD FRD M16
 - 28PCDTC FRD M16
- Half Round (HR) PCD Bits
 - 27PCD HR M16
 - 28PCD HR M16
- PCD Bit
 - 42 PCD 16
- & MORE!

With our in-house manufacturing, we are able to ensure we supply our customers with a second to none service where customisation of drilling consumables is an option. Our team is here to ensure we supply our clients with products that enhance their production and reduce costs.

Speak to your sales representative about customisation of our drilling consumable to meet your site-specific requirements.



Matt Torrance and Lee Picasso



SPARE PARTS AND CONSUMABLES

Air Operated Tools

Fully certified to ATEX directives, the spark proof series of Ingersoll Rand Impact Tools are the tools of choice within the petrochemical and mining industries, in any production or processing areas where hazardous atmospheres can occur. ATEX products are designed fit for purpose before you invest and known for their durability, compact profiles, and best power to weight ratios.

With so much to choose from, you can contact your local technical consultant for the full catalogue range of products. All of our Ingersoll Rand Impact Tools have more options available such as attachments and consumable components.



IMPACT WRENCHES



RATCHET WRENCHES



DRILLS



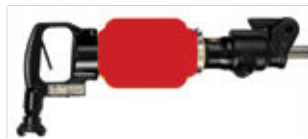
SAWS



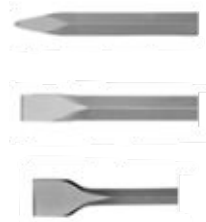
GRINDERS



CHIPPERS & BREAKERS



CHISELS & MOILS



SCALERS



PUMPS



VENTILATION



ROOF BOLTING



LIFTING BAGS



HOISTS & WINCHES



AIR PREPARATION



LUBRICATION



TORQUE EQUIPMENT



HYDRAULIC LIFTING EQUIPMENT



CARBIDE BURRS & SETS



SABRE ACCESSORIES
VARIOUS SAW BLADES



+ HIGH TORQUE SOCKETS
+ REACTION ARM REQUIREMENTS – VARIOUS CONFIGURATIONS

SPARE PARTS AND CONSUMABLES

Lubricants and Oils

With a wide range and variety of lubricants and oils, we have everything you will need for servicing, maintenance and repair.

Industrial hoses and fittings

Providing quality and fit for purpose equipment and consumables is something us here at Alfabs always pride ourselves on, our made in house hoses and fittings are no different!

With customer satisfaction and safety as our main objective, we bring to the market MDG41 certified hoses so our clients know they are getting the highest quality products available. With a testing facility included in our workshop, we test our hoses up to 800 bar.

- Full range of adapters
- Full range of fittings
- Dash 4, 6, 8, 12, 16
- Any length hose manufactured
- Standard hoses stocked in 300mm increments from 300mm to 2,400mm lengths
- Mine sleeving
- FRAS rated
- Push-Lok low pressure hose systems
- MDG Compliant

“**Manufactured
in house,
with a darn
good attitude!**”

Engraved Decals

In house and custom-made decals are available to client's requirements. With our programming system, we can design and custom engrave any text from a danger or warning sign to arrows to manufacture decals, up to 800mm x 600mm in size!



PPE and Safety Supplies

With a "One Stop Shop" Solution approach, our team brings to you:

- Safety Glasses – Smoked and Clear
- Safety goggles
- Ear Plugs
- Ear muffs
- Face Shields
- Respirators
- Hart Hats
- Gloves – Welding, Nitrile, Vinyl
- & more

SPARE PARTS AND CONSUMABLES

Office Stationery and Supplies

BALL POINT RETRACTABLE PENS	PAPER – A3 & A4	WHITEOUT	HIGHLIGHTERS
TAB DIVIDERS	STAPLES & STAPLERS	STICKY TAPE	PERMANENT MARKERS
PAINT PENS	WHITEBOARD MARKERS	D-RING BINDER FOLDERS	PAPER CLIPS & FOLDBACK CLIPS
BATTERIES	CORRECTION TAPE	LAMINATING POUCHES	& MORE

Mining Industrial Cleaning Supplies



HEAVY DUTY
CLEANERS



TRANSPORT
CLEANERS



TYRE & RIM
CLEANERS



SOLVENT
DEGREASERS,
DECARBONISERS



PAINT STRIPPERS
& ELECTRICAL
CLEANERS



DUST CONTROL
AGENTS



NUT & BOLT
RELEASE AGENTS



PARTS WASHING
SOLVENTS

Cylinders

We have a full range of cylinders and seal kits available within our store, with service exchange options also!

 **Products available**

Commercial and Industrial Cleaning Supplies



LIQUID SOAPS



GEL & HAND CLEANERS



MULTI PURPOSE CLEANERS



HEAVY DUTY DISINFECTANTS



GENERAL DISINFECTANTS, ODOUR CONTROLS & MASKING AGENTS



KITCHEN & BAR CHEMICALS



LAUNDRY PRODUCTS



HARD FLOOR MAINTENANCE



GLASS & WINDOW CLEANERS



DRAIN & SEPTIC CLEANERS



CLOTHS, WIPES & SCOURERS



PANS, BRUSHES & DUSTERS



MOPS & BUCKETS



WASHROOM ACCESSORIES



BINS, BIN LINERS & BAGS

& MORE

from 500ml to 1000L! ””

CARBIDE BURRS



CB-SET-01



PART NO. CB-SET-01 | 3/8" 5 PIECE SET

QTY	Part No.	Head Dia.	Description	Cut Style	Style
1	CB-SB3	3/8"	Cylindrical End Cut	DC	SB-3
1	CB-SC3	3/8"	Cylindrical Radius End	DC	SC-3
1	CB-SD3	3/8"	Ball Shape	DC	SD-3
1	CB-SF3	3/8"	Tree Shape Radius End	DC	SF-3
1	CB-SA3-AC	3/8"	Cylindrical	AC	SA-3

PART NO. CB-SET-02 | 3/8" 5 PIECE SET

1	CB-SB3	3/8"	Cylindrical End Cut	DC	SB-3
1	CB-SC3	3/8"	Cylindrical Radius End	DC	SC-3
1	CB-SD3	3/8"	Ball Shape	DC	SD-3
1	CB-SF3	3/8"	Tree Shape Radius End	DC	SF-3
1	CB-SA3-AC	3/8"	Cylindrical	AC	SA-3

PART NO. CB-SET-04 | 1/2" 5 PIECE SET

1	CB-SB5	1/2"	Cylindrical End Cut	DC	SB-5
1	CB-SC5	1/2"	Cylindrical Radius End	DC	SC-5
1	CB-SD5	1/2"	Ball Shape	DC	SD-5
1	CB-SF5	1/2"	Tree Shape Radius End	DC	SF-5
1	CB-SA5-AC	1/2"	Cylindrical	AC	SA-5

PART NO. CB-SET-06 | 3/8" to 1/2" 5 PIECE SET

1	CB-SB3	3/8"	Cylindrical End Cut	DC	SB-3
1	CB-SC3	3/8"	Cylindrical Radius End	DC	SC-3
1	CB-SB5	1/2"	Cylindrical End Cut	DC	SB-5
1	CB-SC5	1/2"	Cylindrical Radius End	DC	SC-5
1	CB-SF5	1/2"	Tree Shape Radius End	DC	SF-5

PART NO. CB-SET-08 | 1/4" 7 PIECE SET

1	CB-SB1	1/4"	Cylindrical End Cut	DC	SB-1
1	CB-SC1	1/4"	Cylindrical Radius End	DC	SC-1
1	CB-SD1	1/4"	Ball Shape	DC	SD-1
1	CB-SF1	1/4"	Tree Shape Radius End	DC	SF-1
1	CB-SH1	1/4"	Flame Shape	DC	SH-1
1	CB-SL1	1/4"	Taper Radius End	DC	SL-1
1	CB-SM2	1/4"	Cone Pointed End	DC	SM-2

PART NO. CB-SET-10 | 3/8" 7 PIECE SET

QTY	Part No.	Head Dia.	Description	Cut Style	Style
1	CB-SB3	3/8"	Cylindrical End Cut	DC	SB-3
1	CB-SC3	3/8"	Cylindrical Radius End	DC	SC-3
1	CB-SD3	3/8"	Ball Shape	DC	SD-3
1	CB-SF3	3/8"	Tree Shape Radius End	DC	SF-3
1	CB-SH3	3/8"	Flame Shape	DC	SH-3
1	CB-SL3	3/8"	Taper Radius End	DC	SL-3
1	CB-SM4	3/8"	Cone Pointed End	DC	SM-4

PART NO. CB-SET-12 | 1/2" 7 PIECE SET

1	CB-SB5	1/2"	Cylindrical End Cut	DC	SB-5
1	CB-SC5	1/2"	Cylindrical Radius End	DC	SC-5
1	CB-SD5	1/2"	Ball Shape	DC	SD-5
1	CB-SF5	1/2"	Tree Shape Radius End	DC	SF-5
1	CB-SH5	1/2"	Flame Shape	DC	SH-5
1	CB-SL4	1/2"	Taper Radius End	DC	SL-4
1	CB-SM5	1/2"	Cone Pointed End	DC	SM-5

PART NO. CB-SET-13 | 1/2" 8 PIECE SET

1	CB-SA5	1/2"	Cylindrical Square End	DC	SA-5
1	CB-SC5	1/2"	Cylindrical Radius End	DC	SC-5
1	CB-SD5	1/2"	Ball Shape	DC	SD-5
1	CB-SE5	1/2"	Oval Shape	DC	SE-5
1	CB-SF5	1/2"	Tree Shape Radius End	DC	SF-5
1	CB-SG5	1/2"	Tree Shape Pointed End	DC	SG-5
1	CB-SL4	1/2"	Tapered Radius End	DC	SL-4
1	CB-SM5	1/2"	Cone Shape	DC	SM-5

PART NO. CB-SET-14 | 1/4" to 1/2" 8 PIECE SET

1	CB-SB1	1/4"	Cylindrical End Cut	DC	SB-1
1	CB-SC1	1/4"	Cylindrical Radius End	DC	SC-1
1	CB-SD1	1/4"	Ball Shape	DC	SD-1
1	CB-SC3	3/8"	Cylindrical Radius End	DC	SC-3
1	CB-SD3	3/8"	Ball Shape	DC	SD-3
1	CB-SE3	3/8"	Oval Shape	DC	SE-3
1	CB-SB5	1/2"	Cylindrical End Cut	DC	SB-5
1	CB-SF5	1/2"	Tree Shape Radius End	DC	SF-5

PART NO. CB-SET-16 | 1/4" to 1/2" 8 PIECE SET - ALUMINIUM CUT

1	CB-SA1-AC	1/4"	Cylindrical End Cut	AC	SA-1
1	CB-SC1-AC	1/4"	Cylindrical Radius End	AC	SC-1
1	CB-SD1-AC	1/4"	Ball Shape	AC	SD-1
1	CB-SC3-AC	3/8"	Cylindrical Radius End	AC	SC-3
1	CB-SD3-AC	3/8"	Ball Shape	AC	SD-3
1	CB-SE3-AC	3/8"	Oval Shape	AC	SE-3
1	CB-SA5-AC	1/2"	Cylindrical End Cut	AC	SA-5
1	CB-SF5-AC	1/2"	Tree Shape Radius End	AC	SF-5



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