

Bendtech
DEFENCE



3 DEFENCE & INDUSTRY SUSTAINMENT



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**DEFENCE & INDUSTRY SUSTAINMENT
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DESIGN, ENGINEERING AND FABRICATION

Although we have a comprehensive range of standard products which we have developed over an extended period of partnerships between planning, site personnel, management and ourselves. Most of these solutions started out as a specific problem which required us to develop a solution that enabled the actions required for operational efficiency.

OUR APPROACH MEANS YOUR PROBLEMS ARE IN THE HANDS OF THOSE THAT SOLVE THEM.

- COMFORT** We take ownership of our role in operational efficiency with a system that provides a holistic solution.
- CERTAINTY** Being available, mobile and equipped to provide on-site consultations and scanning to ensure drawings, scopes of works and solutions are correct is invaluable.
- CONTROL** Design and engineering capabilities are crucial to providing certified and compliant solutions. We enable control over the situation.
- MOTION** Enabling processes and production to continue on-time is a crucial. We provide reliable, consistent pathways towards this goal.
- IMPACT** Solutions that are executed on-time consistently leaves an impact on the bottom line. Productivity receives a boost which is compounded by the benefits of the efficient use of resources which are freed up due to efficient solution development.

If you have a problem on-site, get in contact with the team and we will provide you with the certified solution that you need.

“OUR TEAM PARTNERS WITH EACH OTHER INTERNALLY SO WE CAN PARTNER WITH YOU AND YOUR SUCCESS.”

WE OFFER A FULL CONSULTING, 3D SCANNING AND ENGINEERING SERVICE

Projects and the associated challenges often require custom solutions, we take pride in our CDEC system. Consultation, Design, Engineering and Construction is our holistic approach to solution development making maintenance on-site safe, efficient and easy.

CDEC PROCESS



CONSULTATION We come to you and visit your site to get a hands-on feel for your project. The aim of our consultation is to listen to and understand your requirements. If the project requires it, our 3D scanning capabilities will streamline measurement and data capture. This approach allows us to develop and discuss with you on-site, possible solutions to your problem, and the benefits we can offer.



DESIGN After the consultation we go back to our design team to begin the development of your custom solution. Our team produce designs in CAD Design complete with all drafting documentation ensuring an advanced manufacturing process. Our process allows and encourages you to be involved in the design stage and collaborate with our highly skilled team.



ENGINEERING Once the design is approved, we begin the development and engineering process. This ensures that the right material is used for your project to guarantee structural and functional integrity. We provide full certification that includes WLL, load ratings, integrity reports as well as certificate plates and identifications. We design and engineer all our solutions to ensure full compliance to ensure full compliance with Australian standards.



CONSTRUCTION Finally, once the project is ready and certified for construction, we manufacture your solution. We test, machine, fabricate and surface treat as well as trial fit your custom project. We only manufacture high quality products that provide long lasting, safe and efficient solutions.

ENGINEERED OPTIMISATION:

WEIGHT REDUCTION, SPATIAL ECONOMY AND ERGONOMICS



INTRODUCTION

Weight reduction, space saving, and ergonomic improvements are critical components of safe, and effective equipment. Weight has a large bearing on the performance of equipment in terms of safety, efficiency, mobility, and strength. In a lot of cases weight reduction can be employed in the design phase to solve problems in these areas. This is often done through material substitution, but considerations need to be made around the flow on effects of using a different substrate for the same application. Performance characteristics reliant on strength and environmental resilience as well as the asset or equipment's longevity and cost are important to factor into the decisions around materials.

In industrial scenario's space is often limited, both for storing when not in use as well as for personnel to be able to use the equipment effectively. Space saving in the context of storage as well as a piece of equipment's performance in the space available signify intelligent design. Thinking outside the box while satisfying performance and certification outcomes are the hallmarks of leading capability. This feeds into providing personnel the equipment they need to execute their roles with safety, efficiency, and productivity at the forefront.

The by-product of intelligent design which incorporates weight reduction, strength and performance increases and spatial awareness is ergonomics. Equipment that enables safe, efficient, and practical performance is invaluable. Achieving this in an industrial setting is only possible through design, engineering, and fabrication as a holistic process.

HOSE LANCES CASE STUDY:

Leveraging weight reduction through material substitution and ergonomics improvements for a safer system

PROBLEM

Our client had fabricated their own hose lances on-site for hosing down and cleaning the inside of their process chutes. The lance is used by the operator standing behind a mesh access door on the outside of the process chute. The operator pushes the lance through the gap in the mesh and cleans down the inside of the chute.

Running parallel to this was the associated manual handling issues. The lances were between 6 and 8 kilograms depending on the length. Although not extremely heavy in isolation the lances' completely solid, rigid construction coupled with delivering high pressure water created a significant safety hazard.

During one wash-down incident loose debris broke away above an operator's head which landed on the lance. The impact caused the end of the hose to hit the operator's face. The result was a significant facial injury – which could have been much worse.

TECHNICAL REQUIREMENTS

Our client required a solution that absorbed impact while also reducing the overall weight of the lances. We needed to improve functionality and ergonomics of the lances, while satisfying the client's strict site centric specifications.

Shown to the right is the original lance
- Mild Steel 1" SCH80 pipe and fittings
(Ø33.4OD x 4.6 thick wall).



“THE CORE OF THE PROBLEM IS THAT THE CURRENT SOLUTION WAS PUT TOGETHER ON-SITE AND WAS THEREFORE NOT ENGINEERED OR CERTIFIED”

SOLUTION - WEIGHT REDUCTION

Our solution was material substitution, from Mild to Stainless Steel. This enabled us to decrease the size of the pipe - ½" SCH40 (Ø21.3X2.77 thick wall). Although Stainless is heavier than Mild Steel, by reducing the size of pipe we drastically reduced the weight. This also allowed us to use smaller valves and fittings, creating further reduction in weight.

SHOCK ABSORPTION

Rigidity ultimately intensifies shock scenarios, to solve this problem we developed a flexible connection. This created a mediating effect by remaining rigid enough while not under pressure, maximising performance, and function, while providing the required shock absorption characteristics when in use.

SAFETY

Maximising safety is always top of mind when we are developing a new solution or improving on an existing one. In this case we were able to reverse the orientation of the lances on and off. Meaning if the lance is dropped it won't inadvertently turn on.

RESULTS

- Weight of each lance has been reduced from 6-8 kilograms to 2-3 kilograms.
The lances are more ergonomic and functional for operators
- The addition of a shock absorption feature minimises risk
- Reversal of the on/off orientation maximises safety



MOBILE ACCESS PLATFORM CASE STUDY:

Spatial limitations, manual handling, performance, and certification solved with intelligent design

CASE STUDY 2 – MIGHTY MOUSE

PROBLEM

Our client required a mobile platform to access a critical part of their plant. The platform is needed to perform maintenance on one of the head chutes located 45 metres from the ground. The task is made more difficult given the only means of access is to crane a platform onto an adjoining walkway. The walkway is narrow and is floored with grid mesh.

Australian Standards require handrails around the area of work or occupation be 900mm high from the ground someone is standing. Handrails below this height present a significant working at heights and fall hazard – in this case over 45 metres. The access platform needed to be designed to mitigate this hazard.



Aside from access to the head chute, the platform is also required for general use. The platform also needed to be as light and compact as possible. Walkways are tight and access to the area is limited. Personnel may therefore need to push the platform 300 metres or more to the maintenance area.

Prior to the design, engineering, and fabrication of this platform there was no access step or platform in existence that satisfied all these functional and safety requirements.

TECHNICAL REQUIREMENTS

- Compact enough to fit down tight walkways and functional to make 90 degree turns navigating plant and handrail obstacles
- Light enough to be ergonomic and safe to push easily and potentially long distances
- Engineered, certified and compliant with Australian Standards

SOLUTION

The team were able to design a platform that satisfied all requirements. The use of steel and aluminium ensured overall tare weight was kept as light as possible while maintaining stability. Attachable outriggers also allowed for less counterweights and enabled a smaller overall platform footprint.

Removable drop-in steps and handrails further narrowed the footprint and enabled the required 90 degree turning capability. To solve the safety problem associated with the use of the platform and the nearby working at heights hazards, removable protection handrails were included in the design. These are reversible to allow for use on the left and right-hand side.



RESULTS

The finished platform is portable and easy to manoeuvre. The overall weight was kept to 260kg making the platform easy to move long distances along the grating walkways on the plant. The platform can be used anywhere along a walkway including next to existing handrails – one of the first of its kind.

OVERALL DIMENSIONS (MM):

- In transit (just base on castors): 700H x 810L x 662W
- When erected without handrail extension: 1620H x 1085L x 1050W
- When erected with handrail extension: 1620H x 1640L x 1050W
- WLL: 150kg
- Tare weight: 261kg
- 4 swivel castors + 4 outriggers
- Forklift pockets + lifting lugs



CONVEYOR MAINTENANCE CASE STUDY:

Manual handling minimised, safety transformed, and maintenance made easy with intelligent design and material application

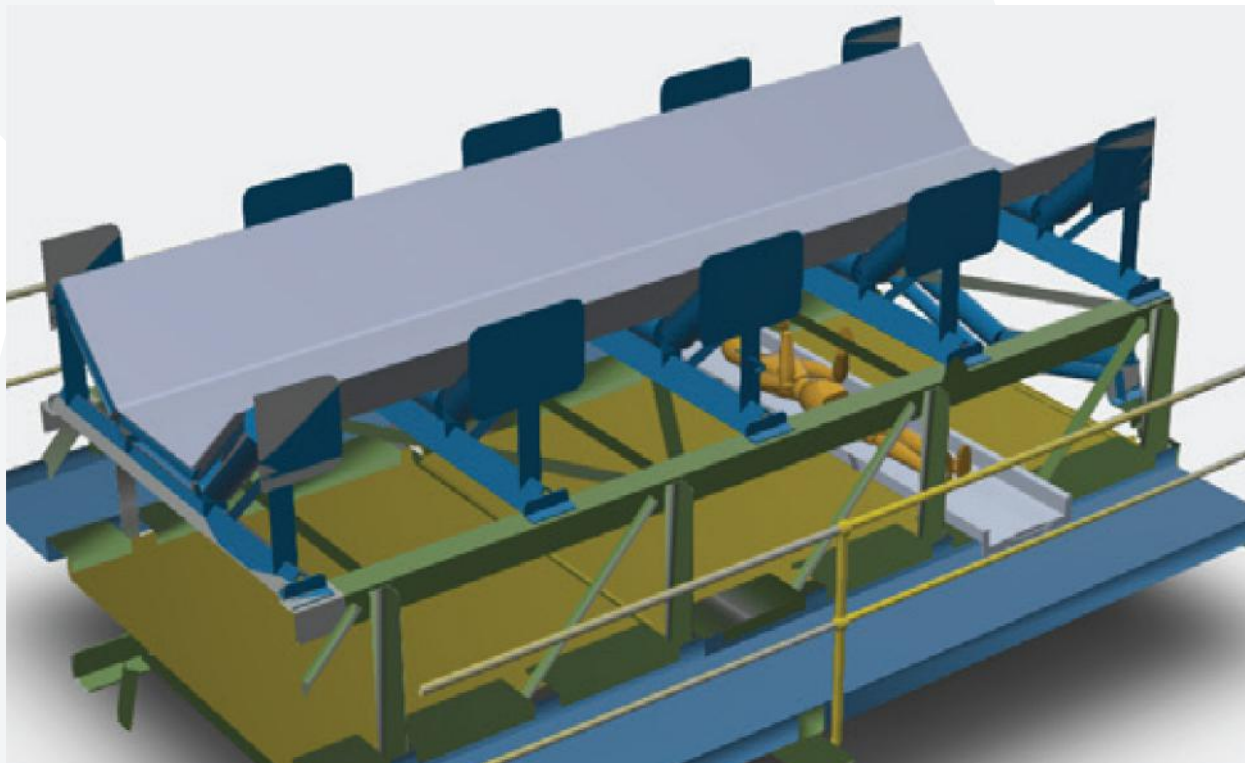
PROBLEM

Conveyor Return Idlers can only be removed or maintained while in situ. This process requires a specialised plank that enables maintenance personnel to slide under the belt to perform the task – like a car mechanic.

The existing plank design our client had implemented was constructed from 6mm plate and weighed approximately 30kg, 38kg and 47kg for the 2.3m, 3m and 3.7m planks respectively. The planks need to be transported on a vehicle to the maintenance locations and manually carried up sets of stairs. In some locations the manual handling distance is significant. The planks need to be light enough for a 2-person carry which the longest (3.7m) plank was not.

TECHNICAL REQUIREMENTS

- 2-person carry
- Span 2.3m / 3m / 3.7m lengths
- Comply with relevant Australian and clients' engineering standards



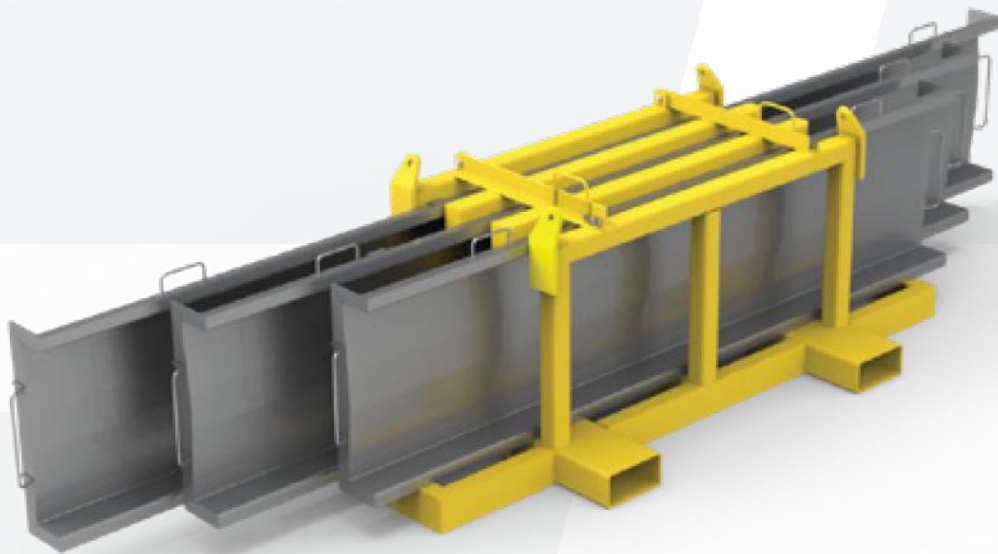
SOLUTION

Through intelligent redesign of the planks with a pressed plate section to reduce the deflection and a material substitution down to 5mm plate we were able to significantly reduce the weight across all three planks.

LENGTH	EXISTING DESIGN (6MM PLATE) KG	OUR DESIGN (5MM PLATE) KG	WEIGHT SAVES (KG / % SAVINGS)
2.3m	30	25	5 (17%)
3m	38	32	6 (16%)
3.7m	47	40	7 (15%)

Outside of the raw design and material upgrades to satisfy the weight and functional requirements we were able to further improve the process and maximise safety. We designed and engineered a forklift/crane able storage rack to reduce manual handling when loading the planks onto the transport ute.

The rack is also able to be craned to higher levels of the plant, meaning a significant reduction and in some cases elimination of manual handling.



RESULTS

Set comprises:

- 150kg WLL PLANK of 2300mm length & 25kg tare weight
- 150kg WLL PLANK of 3000mm length & 32kg tare weight
- 150kg WLL PLANK of 3700mm length & 40kg tare weight
- Comes with Storage Rack with forklift pockets & lifting lugs

WEIGHT REDUCTION SIMULATION PROJECT

Material substitution is an excellent way to reduce weight as well as improve functionality, performance, and economy. Our design team completed a material substitution simulation on a common workshop item – a workbench.

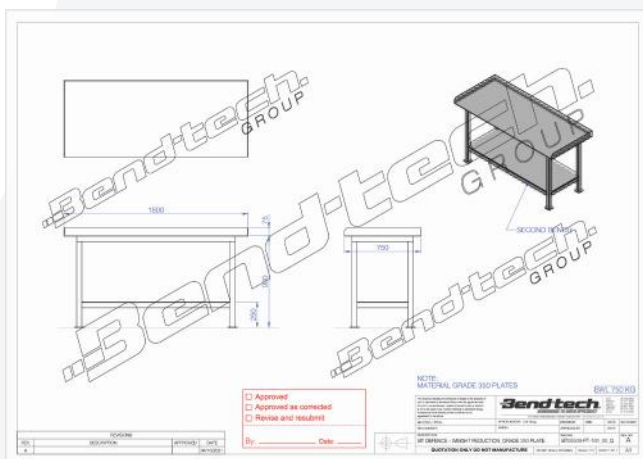
The parameters remained the same across the three materials and the safety and engineering outcomes had to be satisfied. The bench needed to be able to be certified and compliant with Australian Standards and have a working load limit of 750kg regardless of material and remain the same size dimensionally.

The goal of the simulation was to apply different materials to the same application to understand how much the overall tare weight of the bench could be reduced. The results are in the table below.

MATERIAL	SWL	TARE WEIGHT	WEIGHT REDUCTION
Grade 350 Steel Plate	750kg	220kg	
Strenx 700 Plate	750kg	192kg	13%
Aluminium	750kg	95kg	50%

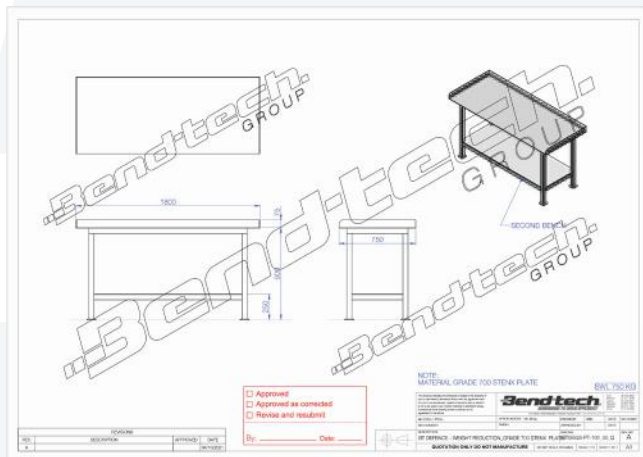
The differences in weight between the materials are quite significant. Especially considering the dependent parameters remain the same. In isolation 1 bench may not be significant but if the same methodology was applied across a whole workshop or other structure the reduction in weight could be profound.

STANDARD DESIGN GRADE 350 STEEL PLATE – 220KG

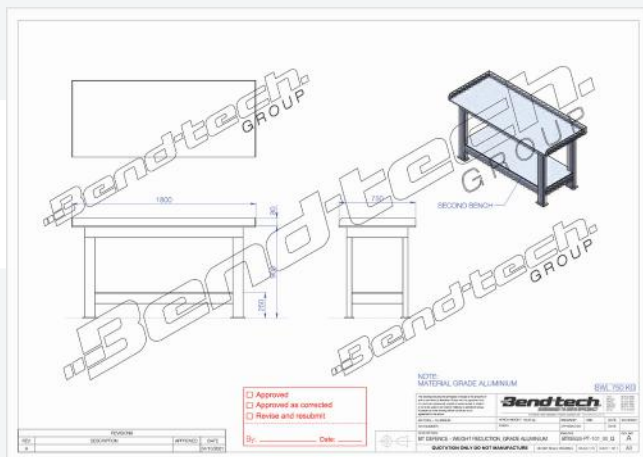


MATERIAL SUBSTITUTION

STRENX 700 PLATE – 192KG 13% WEIGHT REDUCTION



ALUMINIUM – 95KG 56% WEIGHT REDUCTION





WORKSHOP EQUIPMENT

WORKSHOP EQUIPMENT

WORKSHOP WHITEBOARD BENCH

Part No. 5001812

Our Workshop Whiteboard Bench incorporates work benches, a large whiteboard, and shelving for increased efficiency in mobile equipment workshops. Stands come pre-painted in safety yellow and can also have company identification stickers as an optional extra. In stock for immediate delivery

CONSTRUCTION

- Heavy-duty steel
- Heavy-duty mine spec construction
- Heavy duty castors for workshop mobility
- Can be used for shutdowns or planned maintenance
- Length: 1480mm
- Height: 2000mm
- Width: 700mm



WORKSHOP EQUIPMENT

E-HUB EFFICIENCY WORK STATION MINI

Part No. 5500866

The E-Hub Mini is a mobile workstation that allows an operation to harness efficiency and boost safety to the workshop floor. Saves on lost productivity, reduces risk of injury, and allows improved control of the workshop.

CONSTRUCTION

- Heavy-duty steel
- 25-inch screen included
- Small whiteboard on front
- Flip-up whiteboard at rear
- 3x heavy duty document clips
- Transportable with handles
- Adequate storage shelving
- Storage for Tags
- Robust pipe surrounds
- Powder-coated steel cabinet
- Dust proof cabinets and housing
- Large lockable castors
- Plug and play
- Length: 1200mm
- Height: 1940mm
- Width: 580mm



WORKSHOP EQUIPMENT

WORKBENCH 1200MM Part No. 5610318

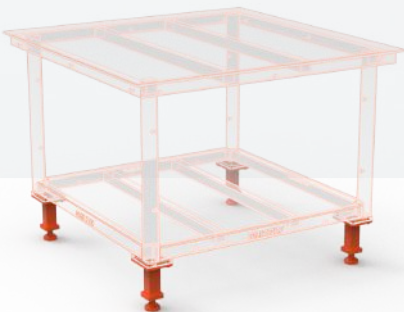
CONSTRUCTION

- Heavy-duty steel
- WLL: 2T
- Bench top 10mm thick
- Finished in Grizzly Orange
- Length: 1200mm
- Height: 900mm
- Width: 1200mm

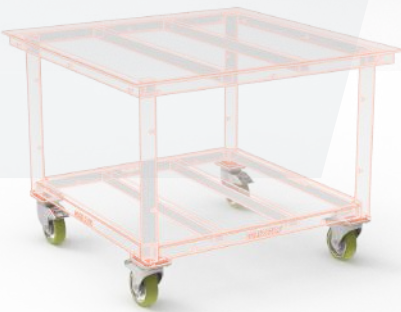


LOCKABLE CASTORS Part No. 5610404

STANDARD FEET OPTION Part No. 5610400

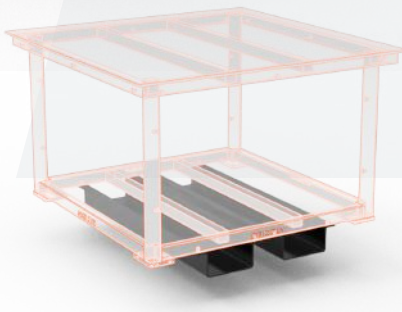


ADJUSTABLE FEET PART NO. 5610402



*High performance, industry leading German Blicke Castors

LOCKABLE CASTORS PART NO. 5610404



FORKLIFT SLOTS PART NO. 5610330



BACKBOARD PART NO. 5610331



OIL DRAIN TRAY PART NO. 5610472



CABINETS PART NO. 5610406

WORKSHOP EQUIPMENT

WORKBENCH 1800MM

Part No. 5610319

CONSTRUCTION

- Heavy-duty steel
- WLL: 2T
- Bench top 10mm thick
- Finished in Grizzly Orange
- Length: 1800mm
- Height: 900mm
- Width: 1200mm



LOCKABLE CASTORS

Part No. 5610404

STANDARD FEET OPTION

Part No. 5610400



ADJUSTABLE FEET

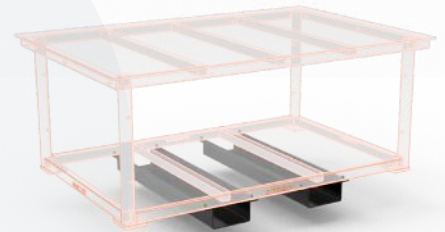
PART NO.
5610402



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LOCKABLE CASTORS

PART NO.
5610404



FORKLIFT SLOTS

PART NO.
5610330



BACKBOARD

PART NO.
5610332



OIL DRAIN TRAY

PART NO.
5610473



CABINETS

PART NO.
5610407

WORKSHOP EQUIPMENT

WORKBENCH 2400MM Part No. 5610320

CONSTRUCTION

- Heavy-duty steel
- WLL: 2T
- Bench top 10mm thick
- Finished in Grizzly Orange
- Length: 2400mm
- Height: 900mm
- Width: 1200mm



LOCKABLE CASTORS
Part No. 5610405

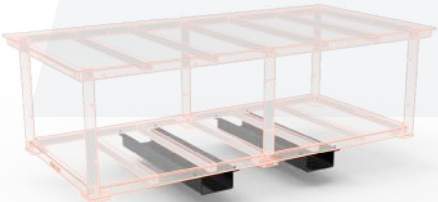
STANDARD FEET OPTION
Part No. 5610401



ADJUSTABLE FEET PART NO. 5610403



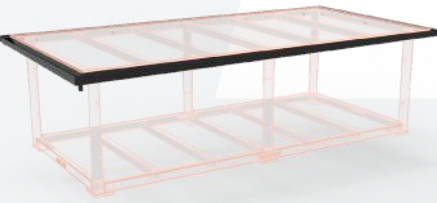
*High performance, industry leading German Bickler Castors
LOCKABLE CASTORS PART NO. 5610405



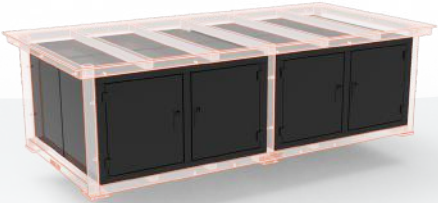
FORKLIFT SLOTS PART NO. 5610330



BACKBOARD PART NO. 5610333



OIL DRAIN TRAY PART NO. 5610474



CABINETS PART NO. 5610408

WORKSHOP EQUIPMENT

+GST

WORKBENCH 3000MM

Part No. 5610321

CONSTRUCTION

- Heavy-duty steel
- WLL: 2T
- Bench top 10mm thick
- Finished in Grizzly Orange
- Length: 3000mm
- Height: 900mm
- Width: 1200mm



LOCKABLE CASTORS

PART No. 5610405

STANDARD FEET OPTION

PART No. 5610401



ADJUSTABLE FEET

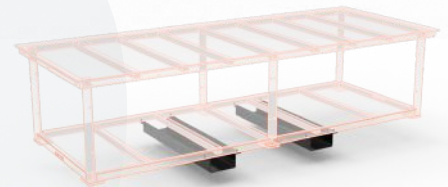
PART NO.
5610403



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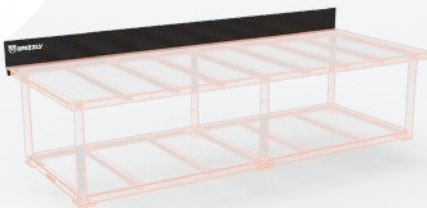
LOCKABLE CASTORS

PART NO.
5610405



FORKLIFT SLOTS

PART NO.
5610330



BACKBOARD

PART NO.
5610334



OIL DRAIN TRAY

PART NO.
5610475



CABINETS

PART NO.
5610409

WORKSHOP EQUIPMENT

2 TONNE TRESTLE STAND 500MM

Part No. 5508827

CONSTRUCTION

- Heavy-duty steel
- WLL: 2T
- Replaceable top section
- Finished in Grizzly Orange
- Length: 1000mm
- Height: 500mm



2 TONNE TRESTLE STAND 900MM

Part No. 5508826

CONSTRUCTION

- Heavy-duty steel
- WLL: 2T
- Replaceable top section
- Finished in Grizzly Orange
- Length: 1000mm
- Height: 900mm



5 TONNE TRESTLE STAND 500MM

Part No. 5508839

CONSTRUCTION

- Heavy-duty steel
- WLL: 5T
- Replaceable top section
- Finished in Grizzly Orange
- Length: 1000mm
- Height: 500mm



WORKSHOP EQUIPMENT

5 TONNE TRESTLE STAND 900MM

Part No. 5508836

CONSTRUCTION

- Heavy-duty steel
- WLL: 5T
- Replaceable top section
- Finished in Grizzly Orange
- Length: 1000mm
- Height: 900mm



5 TONNE TRESTLE STAND 2400MM

Part No. 5001760

CONSTRUCTION

- Heavy-duty steel
- WLL: 5T
- Replaceable top section
- Finished in Grizzly Orange
- Length: 2400mm
- Height: 900mm



10 TONNE TRESTLE STAND

Part No. 5001813

CONSTRUCTION

- Heavy-duty steel
- WLL: 10T
- Replaceable top section
- Finished in Grizzly Orange
- Length: 2400mm
- Height: 650mm



WORKSHOP EQUIPMENT

LADDER RACK

Part No. 5508809

CONSTRUCTION

- Heavy-duty steel
- WLL: 350KG
- 7 slots
- Finished in Grizzly Orange and Black
- Length: 2050mm
- Height: 2000mm
- Width: 990mm

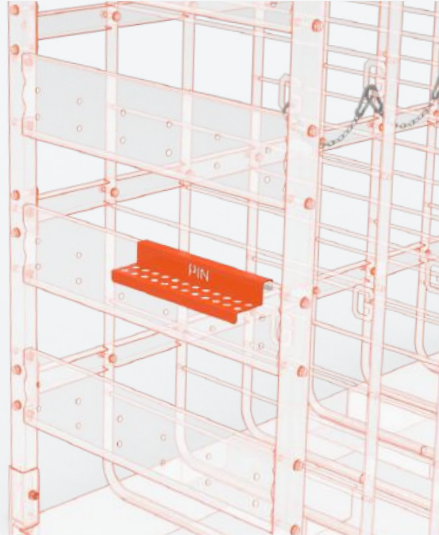




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WHEELS

PART NO.
5508807



PIN STORAGE

PART NO.
5508821



PINS (BOX 12)

PART NO.
5508818



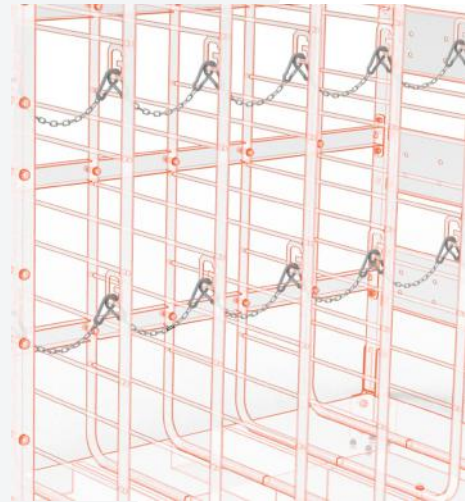
DOCUMENT HOLDER

PART NO.
5508817



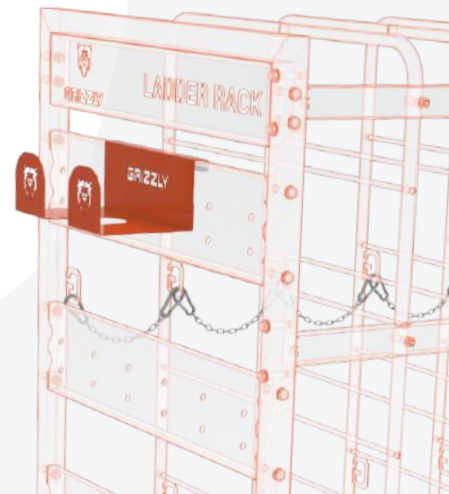
TOOLBOX

PART NO.
5508816



CHAINS

PART NO.
5508819



BROOM/SHOVEL HOLDER

PART NO.
5508820

WORKSHOP EQUIPMENT

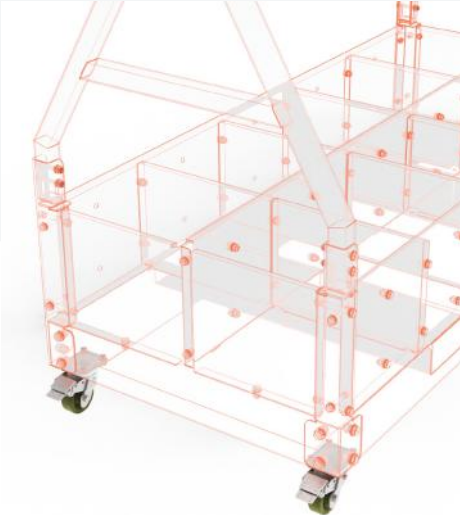
CHAIN RACK

Part No. 5508810

CONSTRUCTION

- Heavy-duty steel
- WLL: 1200KG (40KG per pin, 60KG per ring)
- Finished in Grizzly Orange and Black
- Length: 2000mm
- Height: 1380mm
- Width: 990mm

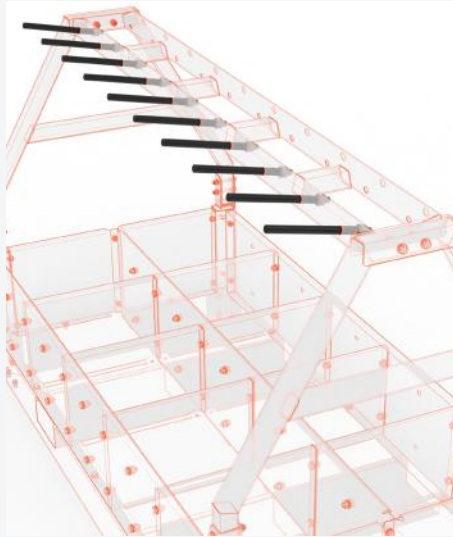




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WHEELS

PART NO.
5508807



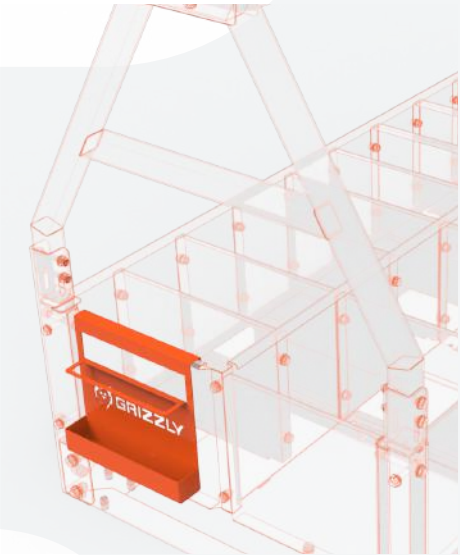
PIN ASSEMBLY (BOX 10)

PART NO.
5508812



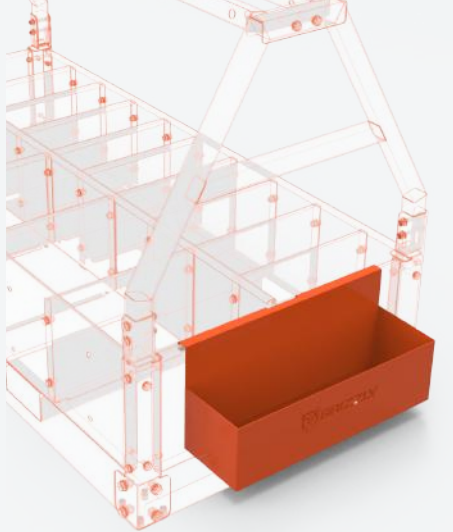
PINS RACK

PART NO.
5508815



DOCUMENT HOLDER

PART NO.
5508817



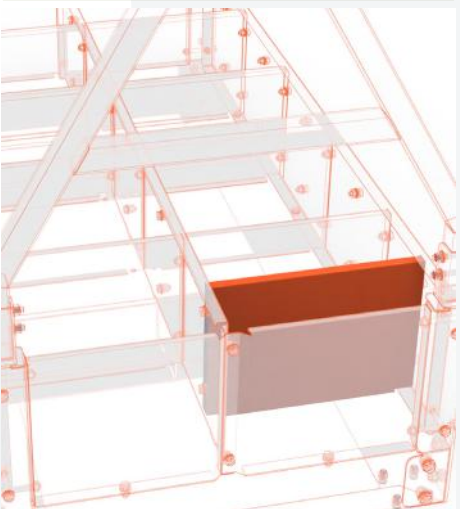
TOOLBOX

PART NO.
5508816



SHACKLES RACK

PART NO.
5508814



VERTICAL DIVIDERS (BOX 5)

PART NO.
5508811



LINK BRACKET ASSEMBLY (BOX 5)

PART NO.
5508813

WORKSHOP EQUIPMENT

CHAIN CADDY

Part No. 5508829

Part No. 5508807

Part No. 5508830

Part No. 5508834

CONSTRUCTION

- Heavy-duty steel
- WLL: 100KG per ring
- High Performance Industry Leading German Bickler Castors
- Finished in Grizzly Orange and Black
- Length: 1000mm
- Height: 920mm
- Width: 800mm



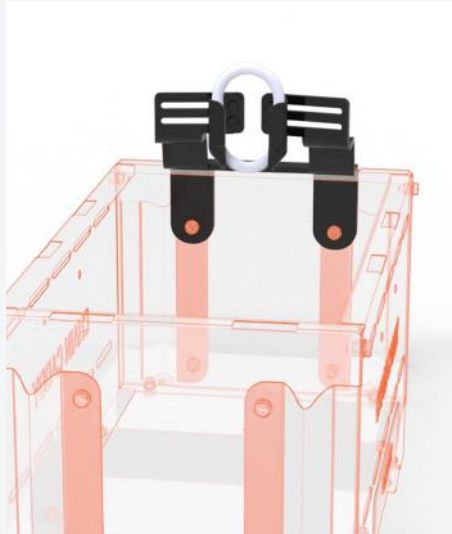
CHAIN CADDY OPTIONS



*High performance, industry leading German Bickie Castors

WHEELS

PART NO.
5508807



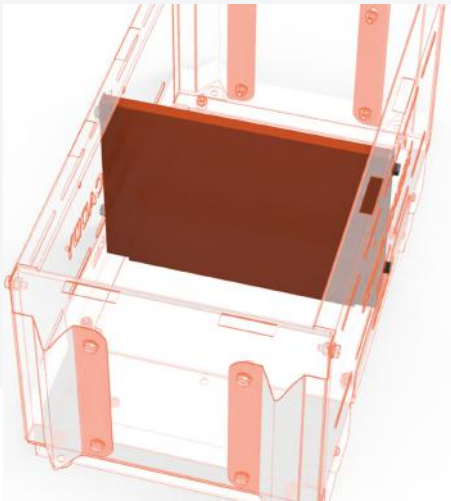
LINK BRACKET ASSEMBLY

PART NO.
5508830



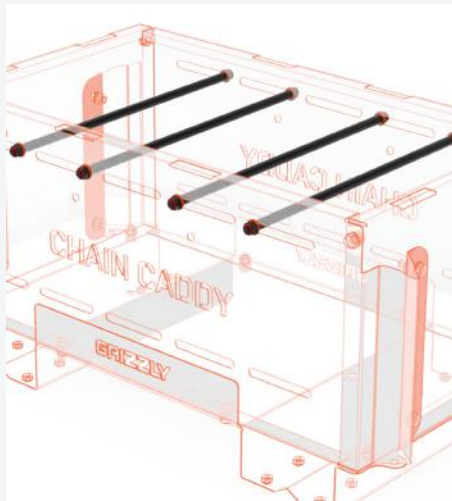
SKACHLES RACK

PART NO.
5508831



DIVIDER

PART NO.
5508832



CHAIN BLOCK BAR (BOX OF 4)

PART NO.
5508833



REMOVABLE HANDLE

PART NO.
5508834

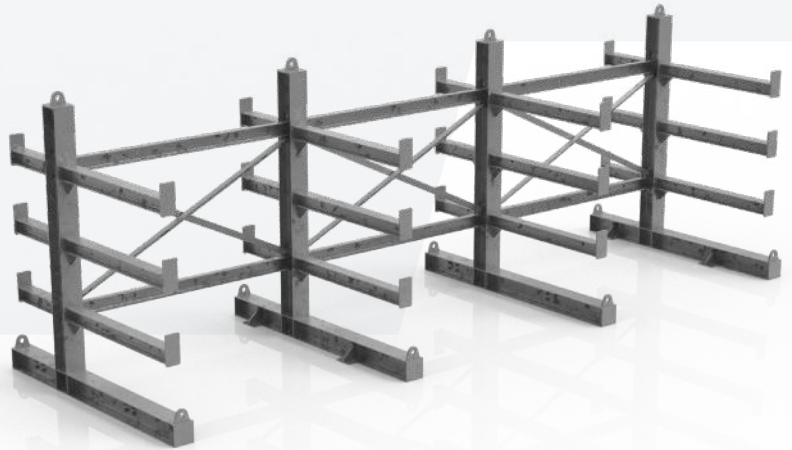
WORKSHOP EQUIPMENT

SMALL GENERAL PURPOSE STEEL RACK

Part No. 5000222

CONSTRUCTION

- Heavy-duty steel
- WLL: 3T per shelf
- Cantilevered to ensure optimum space utilisation
- Length: 6000mm
- Height: 2000mm
- Width: 2048mm

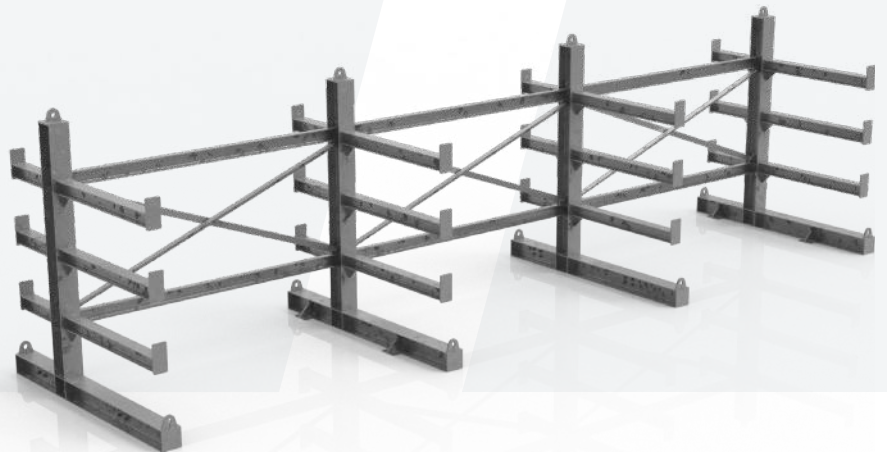


MEDIUM GENERAL PURPOSE STEEL RACK

Part No. 5000221

CONSTRUCTION

- Heavy-duty steel
- WLL: 3T per shelf
- Cantilevered to ensure optimum space utilisation
- Modular construction for ease of transport and erection on site
- Length: 7500mm
- Height: 2000mm
- Width: 2048mm

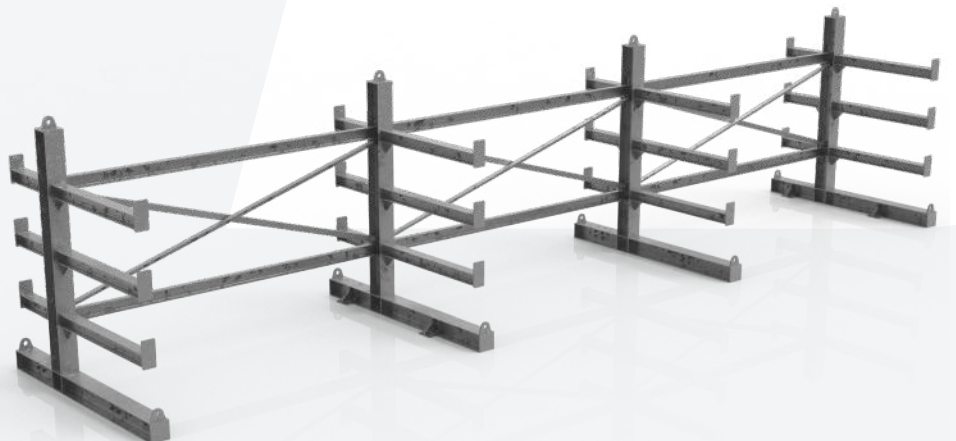


LARGE GENERAL PURPOSE STEEL RACK

Part No. 5000219

CONSTRUCTION

- Heavy-duty steel
- WLL: 3T per shelf
- Cantilevered to ensure optimum space utilisation
- Modular construction for ease of transport and erection on site
- Length: 9000mm
- Height: 2000mm
- Width: 2048mm



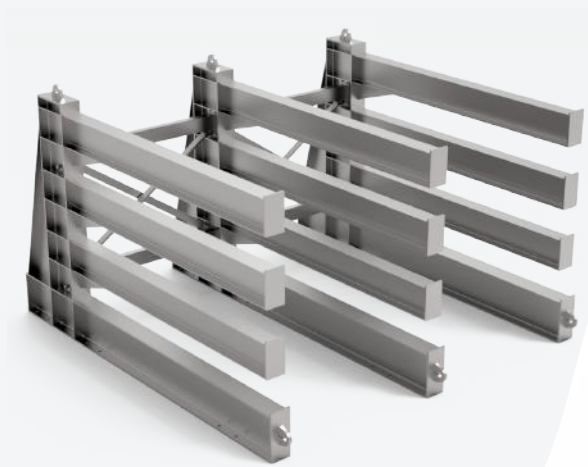
WORKSHOP EQUIPMENT

HORIZONTAL STEEL PLATE RACK

Part No. 5501660

CONSTRUCTION

- Heavy-duty steel
- WLL: 6.5T per shelf
- Hot Dip Galvanised Finish
- Length: 3000mm
- Height: 2004mm
- Width: 3328mm

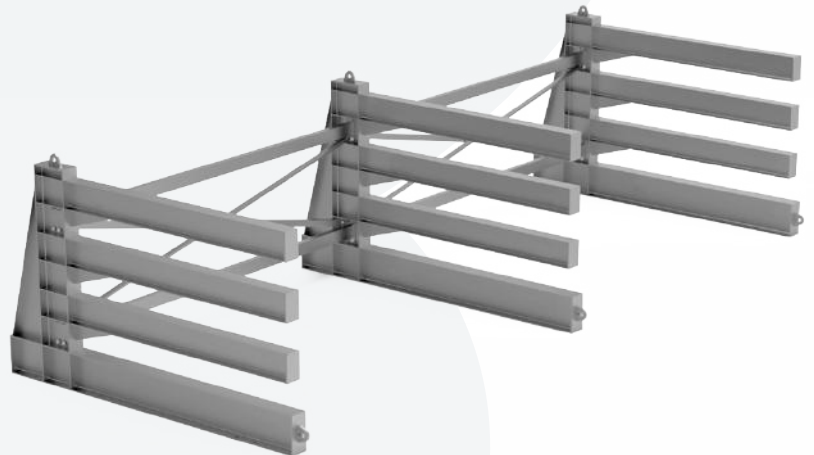


HORIZONTAL PLATE STORAGE RACK 8M

Part No. 5000220

CONSTRUCTION

- Heavy-duty steel
- WLL: 6.5T per shelf
- Hot Dip Galvanised Finish
- 4 shelves for optimum plate storage
- Modular construction for ease of transport and erection on site
- Cantilevered to ensure optimum space utilisation
- Length: 8000mm
- Height: 2004mm
- Width: 3329mm

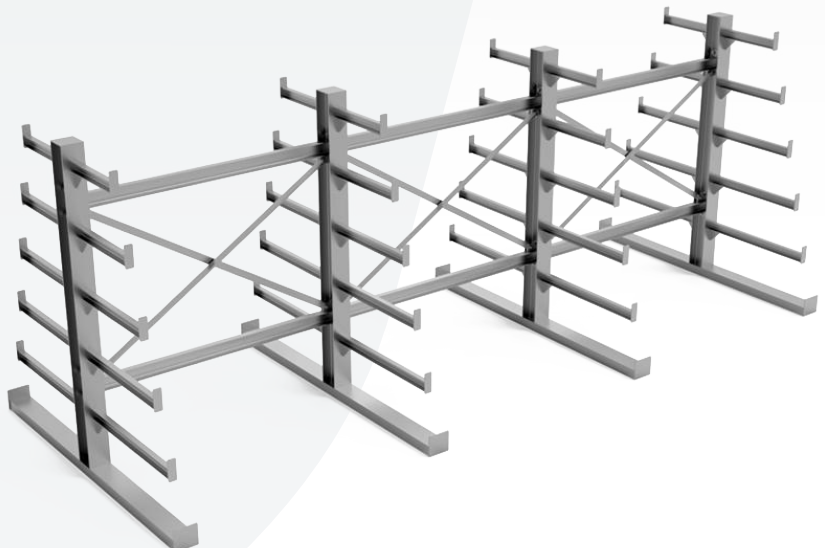


STEEL FREE STANDING STORAGE RACK

Part No. 5003285

CONSTRUCTION

- Heavy-duty steel
- WLL: 4.8T per shelf
- Hot Dip Galvanised Finish
- 12 shelves (6 either side)
- Modular construction for ease of transport and erection on site
- Length: 6000mm
- Height: 2250mm
- Width: 2400mm



WORKSHOP EQUIPMENT

BELL 429 ROTOR BLADE WORKSHOP RACK

Part No. 5504171

CONSTRUCTION

- Heavy-duty steel
- Height: 1500mm
- Length: 5000mm
- Certified and compliant to Australian Standards

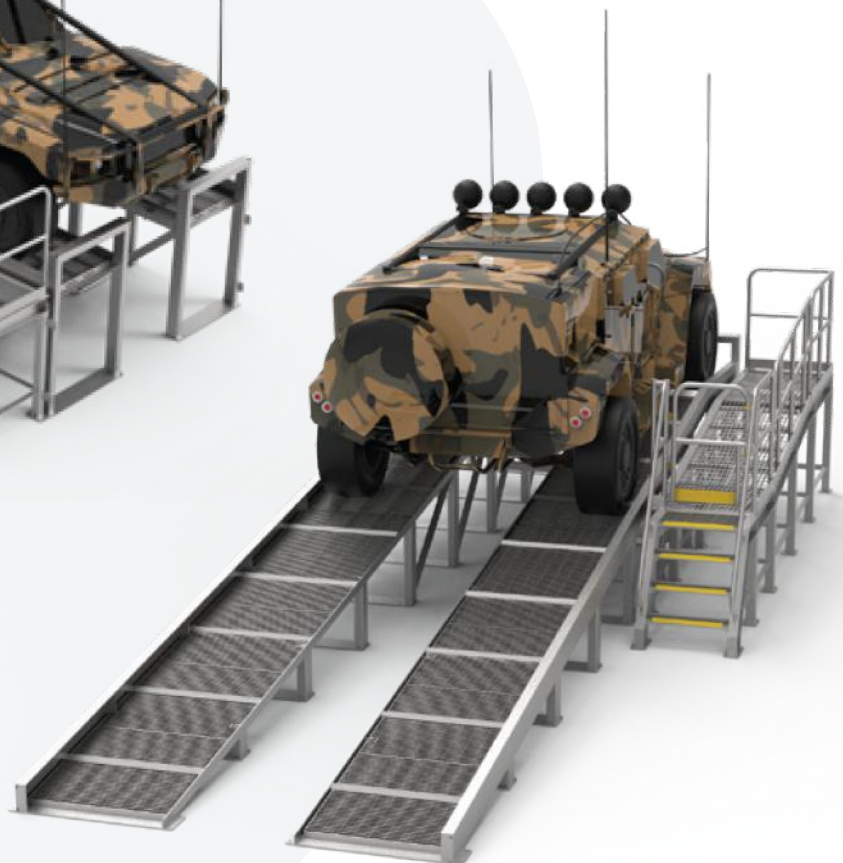


WASHDOWN RAMP

Designed and engineered for safe and efficient vehicle maintenance and cleaning. With a safe working load limit of 8 tonnes our washdown ramp can cater for anything from small four wheelers all the way up to light trucks.

- Can be fully customised to your vehicle requirements
- Certified and compliant to Australian Standards
- Reduced ramp angle to suit a wide range of wheelbases
- Marine grade galvanised to perform under the harshest conditions
- Heavy-duty steel construction
- Heavy-duty grating and angle iron for maximum grip
- Adjacent walkway for safely exiting the vehicle
- WLL of 8 tonnes
- Supplied complete with install guides and protocols

Part No. 5502605



CASE STUDY**THE SCORPION BY
BEND-TECH DEFENCE****OVERVIEW**

The Scorpion is a deployable workshop and communications base station built to be self sufficient while deployed in remote locations.

FEATURES

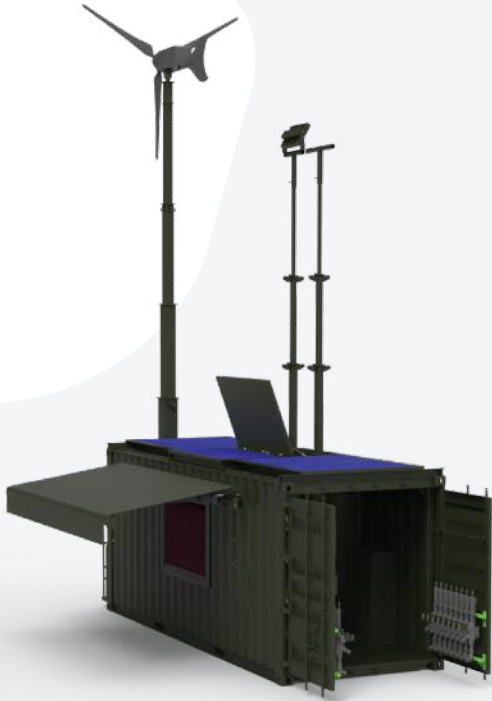
- Universal customisable design
- 1.5 Kw wind turbine
- Deisel generator
- Deployable light tower
- Deployable communnications unit/camera
- HD ultra thin water proof solar panels
- Universal storage hooks and cabinet
- Weapons racking
- Electronic screen display
- Retractable awning
- Heavy-duty fold down workbench
- Internal lighting
- Power command unit (red earth unit)
- Internal airconditioning unit (optional)
- Internal gantry crane (optional)
- Blast/bulletproof viewing window (optional)

**Scorpion™**

REMOTE OFF-GRID DEPLOYABLES, BASE STATIONS & WORKSHOPS

CASE STUDY

**THE SCORPION BY
BEND-TECH DEFENCE**



CASE STUDY

AH-64E APACHE GROUND SUPPORT EQUIPMENT

PROJECT OVERVIEW

Australia has selected the AH-64E Apache Guardian to replace the Tiger ARH under Project Land 4503. 29 helicopters will be acquired with a planned initial operational capability of 12 helicopters in 2026 and full operational capability in 2028. Bend-tech Defence is positioned to assist the Australian Army by providing Ground Support Equipment to support the maintenance and servicing of the Apache fleet.

GROUND SUPPORT EQUIPMENT: ACCESS EQUIPMENT

- Wrap around front access platform
- Double sided fuselage access platforms for engine, transmission and rotor access and maintenance
- Rear rotor wrap around access platform
- Modular for ease of manoeuvrability and storage when not in use

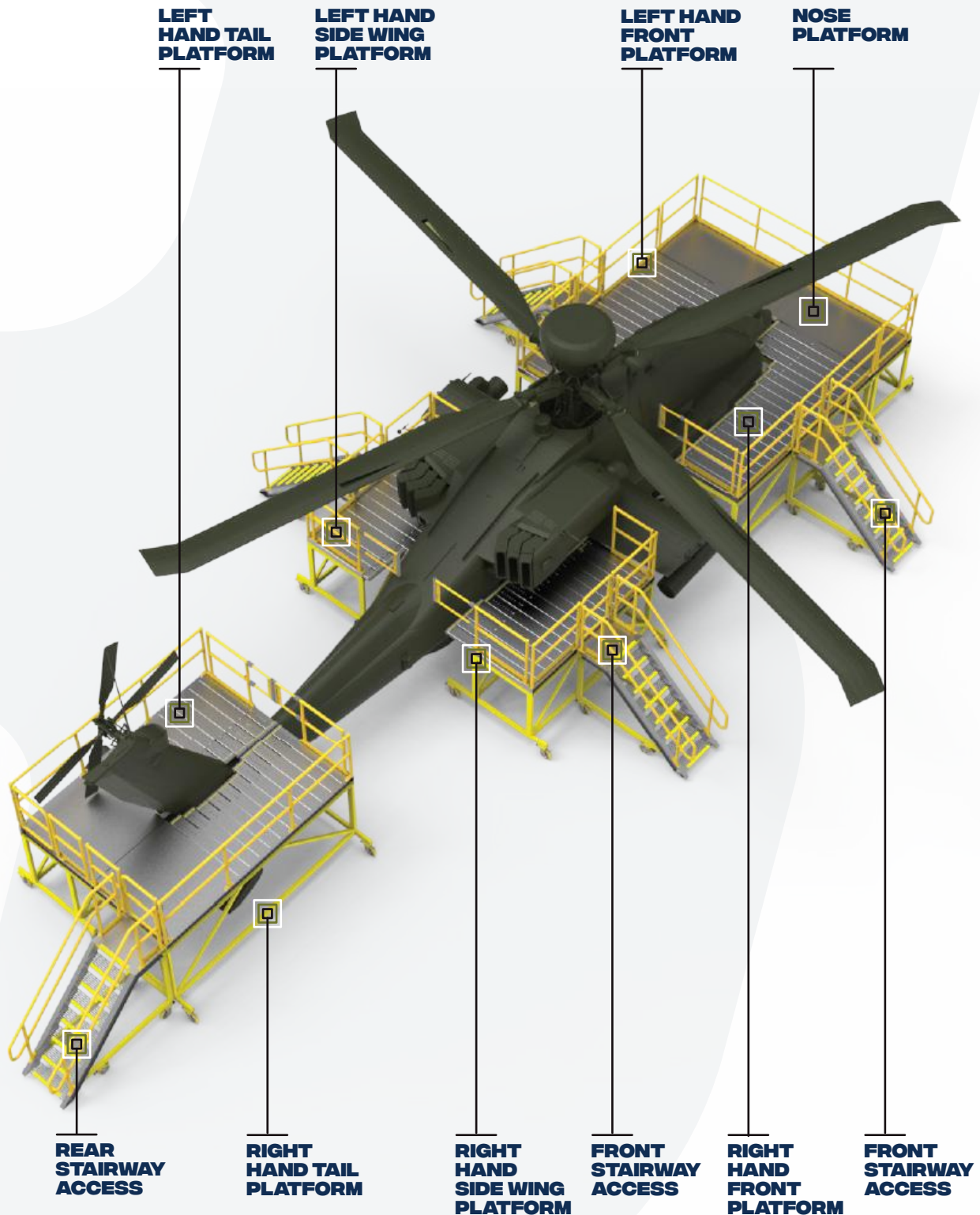
BEND-TECH DIFFERENCE

- 100% Australian owned, operated and Australian made
- In-house design, engineering team
- 3D scanning, scoping and processing capabilities to ensure precision solution delivery
- 9000 square meters of fabrication facilities
- Local, design, engineering and manufacturing
- 80 tonne lifting capabilities with a 20 meter underhook lift
- Australia wide fully equipped consulting team
- Dedicated research and development department



CASE STUDY

AH-64E APACHE GROUND SUPPORT EQUIPMENT



WORKSHOP TOOLBOXES

WORKSHOP TOOLBOXES

We have created many specialised tool boxes for jobs on Mine sites that have specific tooling requirements. These toolboxes provide a lean and segregated approach to ensure that operators can confirm that they have all the Tooling needed prior to performing a job. and also during the job. Each tool is clearly in view and easy to access.

Product Benefits

- High strength Steel Construction
- Gas Struts for lid
- Key Lock
- Heavy Duty hydrocarbon resistant foam cut out
- Each Tool has a Specifically CNC routed cutout
- Forklift slots to enable easy movement around site
- Can be painted to your specific company requirements
- Specific Signage and Stickers available on request
- Wheels can be added for ease of manoeuvrability on site
- These are made to suit your particular set of tools for each job, and can be certified and load rated to Australian Standards

“ **MAKING MAINTENANCE
ON-SITE SAFE, EFFICIENT
AND EASY** ”

WORKSHOP TOOLBOXES

SPECIALISED TOOL BOX 1295MM X 1200MM

Part No. 5500903

CONSTRUCTION

- Heavy-duty steel
- Height: 500mm
- Gas Struts for lid
- Key Lock
- Heavy Duty hydrocarbon resistant foam cut out
- Each Tool has a Specifically CNC routed cutout



SPECIALISED TOOL BOX 1550MM X 900MM

Part No. 5501068

CONSTRUCTION

- Heavy-duty steel
- Height: 535mm
- Gas Struts for lid
- Key Lock
- Heavy Duty hydrocarbon resistant foam cut out
- Each Tool has a Specifically CNC routed cutout



SPECIALISED TOOLBOX WITH DRAWER

Part No. 5501871

CONSTRUCTION

- Heavy-duty steel
- Height: 730mm
- Width: 790mm
- Gas Struts for lid
- Heavy Duty hydrocarbon resistant foam cut out
- Each Tool has a Specifically CNC routed cutout



WORKSHOP TOOLBOXES

SPECIALISED TOOL BOX 1750MM X 900MM

Part No. 5500957

CONSTRUCTION

- Heavy-duty steel
- Height: 500mm
- Gas Struts for lid
- Key Lock
- Heavy Duty hydrocarbon resistant foam cut out
- Each Tool has a Specifically CNC routed cutout



SPECIALISED FRONT ACCESS TOOLBOX

Part No. 5501946

CONSTRUCTION

- Heavy-duty steel
- Pins for tool positioning
- Labeled small parts bin with adjustable partitions
- Labeled double height bin with adjustable partitions



TOOLBOX TROLLEY

Part No. 5501875

CONSTRUCTION

- Heavy-duty mine spec
- Length: 900mm
- Width: 945mm
- Height: 945mm
- Large industrial castors
- Lockable doors and drawers
- All drawers on heavy duty rollers
- Heavy duty top bench for component servicing



GENERAL PLATFORMS

GENERAL PURPOSE PLATFORMS

ACCESS PLATFORM 1200MM

Part No. 5412174

CONSTRUCTION

- Heavy-duty aluminium
- Length: 1100mm
- Width: 1000mm
- Self-levelling jacks
- Self-closing gate
- Safety handrails
- Non-slip stairway and work area



ACCESS PLATFORM 1400MM

Part No. 5401235

CONSTRUCTION

- Heavy-duty aluminium
- Length: 2783mm
- Width: 900mm
- Self-levelling jacks
- Self-closing gate
- Safety handrails
- Non-slip stairway and work area



ACCESS PLATFORM 1600MM

Part No. 5401183

CONSTRUCTION

- Heavy-duty aluminium
- Length: 824mm
- Width: 780mm
- Self-closing gate
- Safety handrails
- Non-slip stairway and work area



GENERAL PURPOSE PLATFORMS

ACCESS PLATFORM 1900MM

Part No. 5412036

CONSTRUCTION

- Heavy-duty aluminium
- Length: 3903mm
- Width: 1000mm
- Self-levelling jacks
- Self-closing gate
- Safety handrails
- Non-slip stairway and work area



ACCESS PLATFORM 1850MM

Part No. 5414025

CONSTRUCTION

- Heavy-duty aluminium
- Length: 2000mm
- Width: 1200mm
- Safety handrails
- Non-slip stairway and work area



ACCESS PLATFORM 1700MM

Part No. 5414112

CONSTRUCTION

- Heavy-duty aluminium
- Length: 1200mm
- Width: 950mm
- Self-levelling jacks
- Self-closing gate
- Safety handrails
- Non-slip stairway and work area



GENERAL PURPOSE PLATFORMS

ACCESS PLATFORM 2200MM

Part No. 5412038

CONSTRUCTION

- Heavy-duty aluminium
- Length: 4003mm
- Width: 1100mm
- Self-levelling jacks
- Self-closing gate and safety handrails
- Non-slip stairway and work area



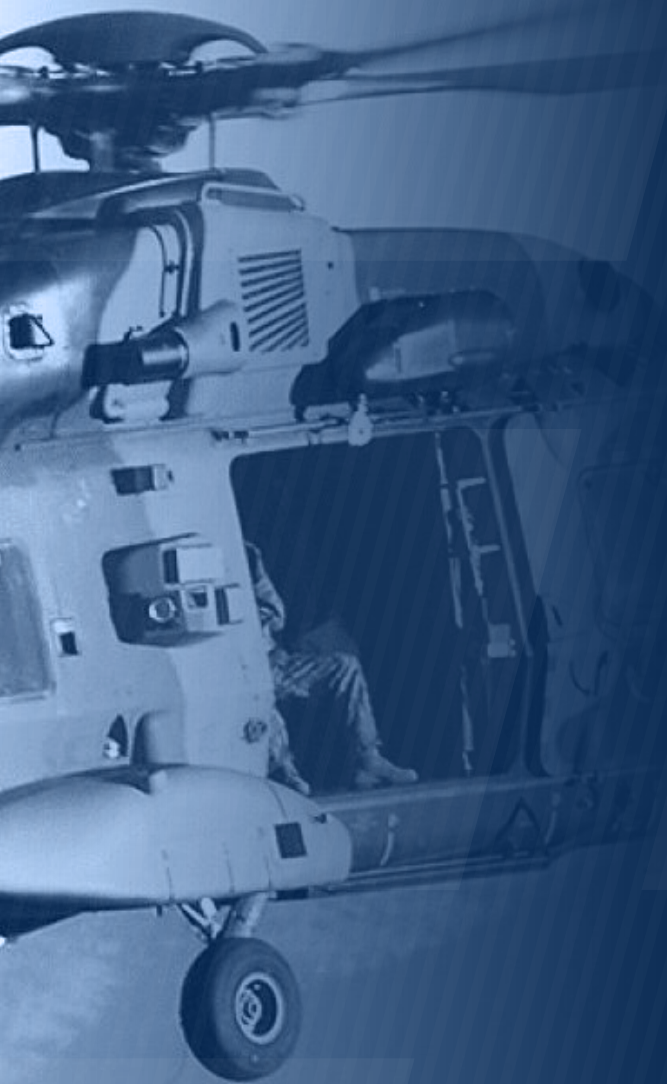
ACCESS PLATFORM 2500MM

Part No. 5401237

CONSTRUCTION

- Heavy-duty aluminium
- Length: 4480mm
- Width: 1200mm
- Self-levelling jacks
- Self-closing gate and safety handrails
- Non-slip stairway and work area





EQUIPMENT ACCESS AND MAINTENANCE

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EQUIPMENT ACCESS AND MAINTENANCE

SIKORSKY S92 RH TAIL ACCESS PLATFORM

Part No. 5001970

A safe, certified and compliant access platform designed and engineered to access the tail of the Sikorsky S92 Helicopter.

CONSTRUCTION

- Full Tig welded Aluminium RHS
- Tread Plate Decking
- Gridmesh Stair Treads
- Self-closing gate
- D Rubber on edges
- Non slip yellow tread nosing on all treads
- SWL markings attached to platform



SIKORSKY S92 LH TAIL ACCESS PLATFORM

Part No. 5501953

A safe, certified and compliant access platform designed and engineered to access the tail of the Sikorsky S92 Helicopter.

CONSTRUCTION

- Full Tig welded Aluminium RHS
- Tread Plate Decking
- Gridmesh Stair Treads
- Self-closing gate
- D Rubber on edges
- Non slip yellow tread nosing on all treads
- SWL markings attached to platform



EQUIPMENT ACCESS AND MAINTENANCE

BELL 429 TAIL ROTOR INSPECTION PLATFORM

Part No. 5540170

A safe, certified and compliant access platform designed and engineered to access the tail rotor of the Bell 429 helicopter.

CONSTRUCTION

- Full Tig welded Aluminium RHS
- Tread Plate Decking
- Gridmesh Stair Treads
- Self-closing gate
- D Rubber on edges
- Non slip yellow tread nosing on all treads
- SWL markings attached to platform



EQUIPMENT ACCESS AND MAINTENANCE

BELL 429 DOUBLE SIDED MX PLATFORM Part No. 5504169

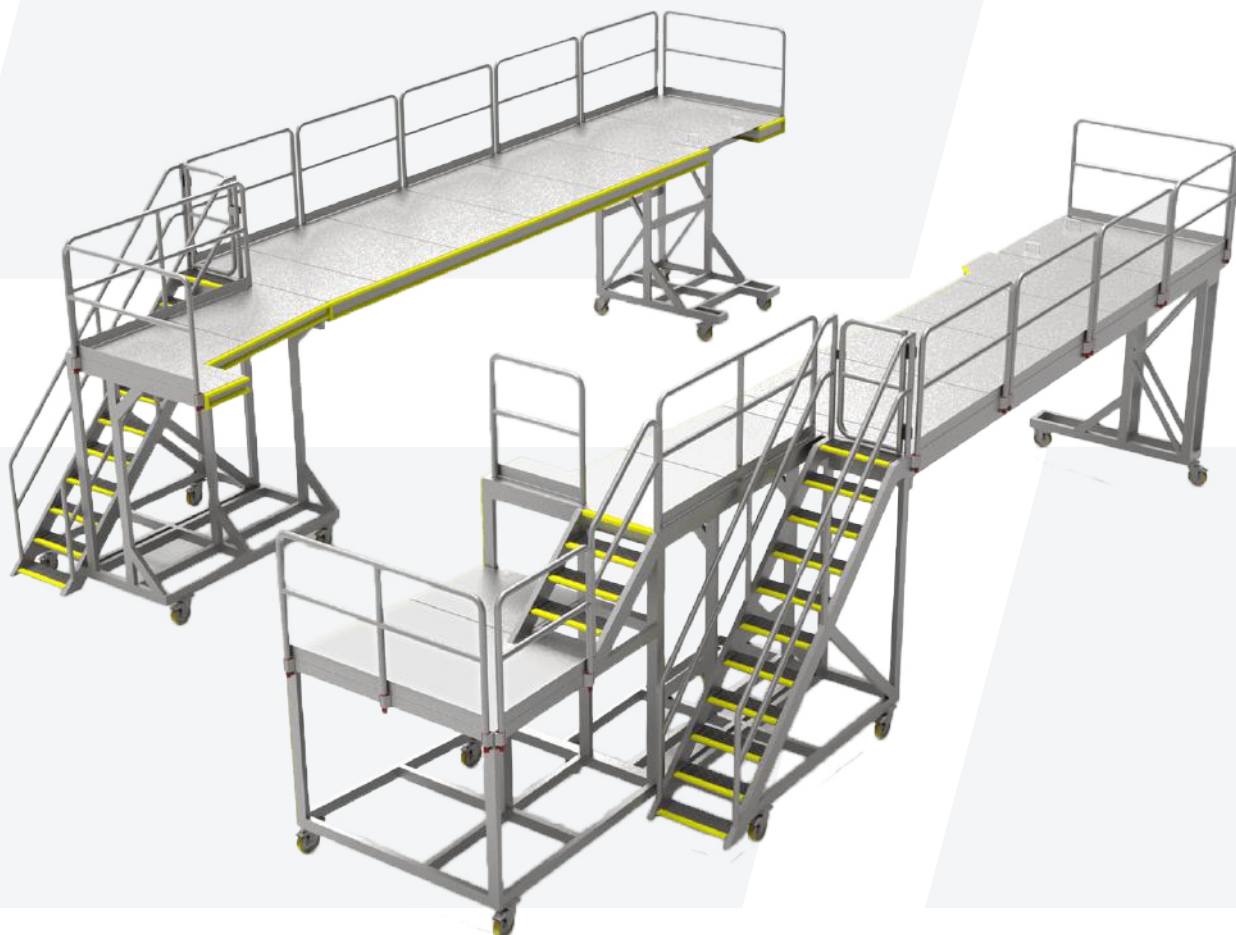
A safe, certified and compliant access platform designed and engineered to access the main rotor, engine and transmission of the Bell 429 helicopter.

CONSTRUCTION

- Full Tig welded Aluminium RHS
- Tread Plate Decking
- Gridmesh Stair Treads
- Self-closing gate
- D Rubber on edges
- Non slip yellow tread nosing on all treads
- SWL markings attached to platform



EQUIPMENT ACCESS AND MAINTENANCE



SIKORSKY S92 TOP FRAME ACCESS PLATFORM

Part No. 5501798

Designed and engineered, safe and efficient Sikorsky S92 access platform. Certified and compliant with Australian Standards.

CONSTRUCTION

- Heavy-duty aluminium access platforms
- Certified and compliant with Australian Standards
- Fitted with heavy-duty castors
- Fitted with non-slip step nosing's
- Fitted with self-closing gates

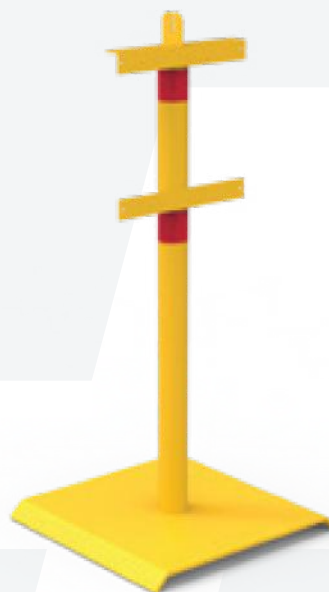


BOLLARDS

BOLLARDS



BOLLARD 50NB 1200MM
Part No. 5501516



**BOLLARD 50NB 1200MM
+ SIGN MOUNT**
Part No. 55015162

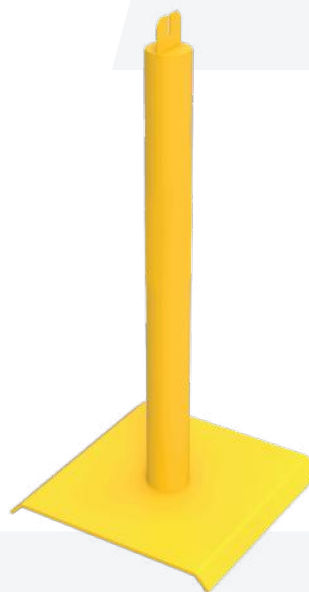
Site bollards designed to aid in traffic and area management.

CONSTRUCTION

- Heavy-duty steel
- Blasted and high-performance coated



BOLLARD 65NB 1200MM
Part No. 5501332



BOLLARD 100NB 1200MM
Part No. 5501331

BOLLARDS



BOLLARD 1200MM
Part No. 5500919



**BOLLARD 1200MM
SURFACE MOUNTED**
Part No. 5501482

Site bollards designed to aid in traffic and area management.

CONSTRUCTION

- Heavy-duty steel
- Blasted and high-performance coated



BOLLARD 1400MM
Part No. 5503236



BOLLARD 1410MM
Part No. 5502963



PERSONNEL GATES

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PERSONNEL GATES



SELF-CLOSING GATE 850MM
Part No. 55007241



SELF-CLOSING GATE 870MM
Part No. 55007242

Site and plant gates designed to aid in personnel and area management.

CONSTRUCTION

- Heavy-duty steel
- Blasted and high-performance coated



SELF-CLOSING GATE 960MM
Part No. 55007243



SELF-CLOSING GATE 1000MM
Part No. 55007244

PERSONNEL GATES



SELF-CLOSING GATE 1050MM

Part No. 55007245



SWING GATE 800MM

Part No. 5502994

Site and plant gates designed to aid in personnel and area management.

CONSTRUCTION

- Heavy-duty steel
- Blasted and high-performance coated



SWING GATE 820MM

Part No. 5502999



SELF-CLOSING GATE WITH HANDRAIL

Part No. 5502640

PERSONNEL GATES



SELF-CLOSING GATE
1000MM (H) X 650MM (W)

Part No. 5503238



SPRING LOADED GATE
960MM (H) X 720MM (W)

Part No. 5502838

Site and plant gates designed to aid in personnel and area management.

CONSTRUCTION

- Heavy-duty steel
- Blasted and high-performance coated



SELF-CLOSING GATE
1020MM (H) X 1075MM (W)

Part No. 5502638

“ **MAKING
MAINTENANCE
ON-SITE SAFE,
EFFICIENT AND
EASY** ”

PERSONNEL GATES



**ROCK BREAKER GATE
AND HANDRAIL 1000MM**

Part No. 5502995



PRIMARY CRUSHER GATES

Part No. 5503253

Site and plant gates designed to aid in personnel and area management.

CONSTRUCTION

- Heavy-duty steel
- Blasted and high-performance coated



**MOBILE BARRICADE
CART 1100MM**

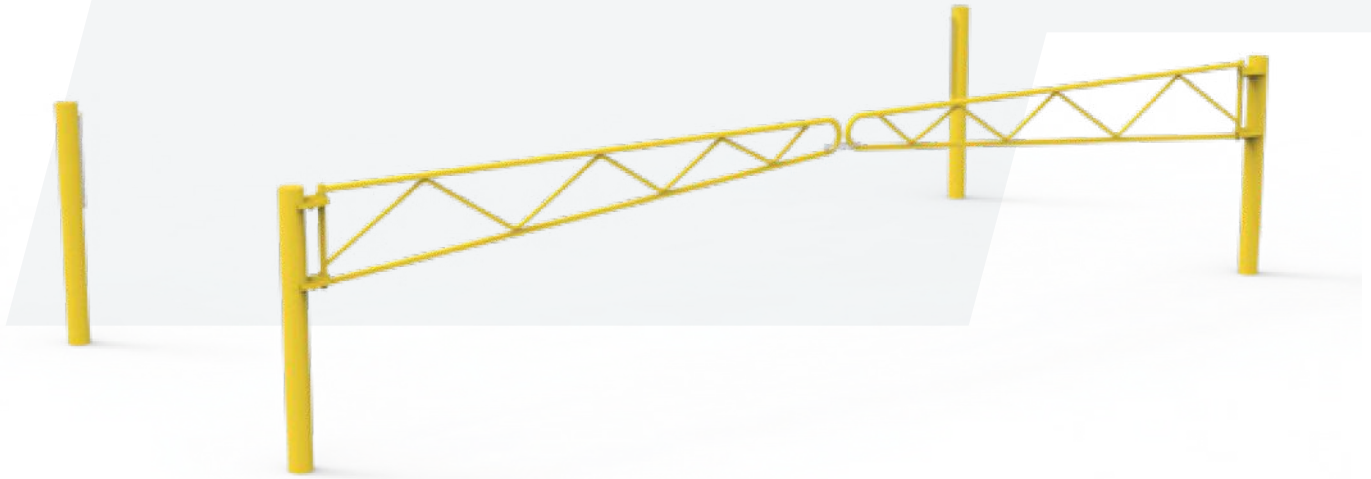
Part No. 5503530

“ WE CAN
CUSTOMISE
ANY PRODUCT
FOR YOUR SITE
REQUIREMENTS ”



VEHICLE GATES

VEHICLE GATES



BOOM GATES Part No. 5501974

Site and plant gates designed to aid in personnel and area management. Our gates can be completely customised to suit your requirements.

CONSTRUCTION

- Heavy-duty steel
- Blasted and high-performance coated



ACCESS GATE 7000MM Part No. 5503264

VEHICLE GATES



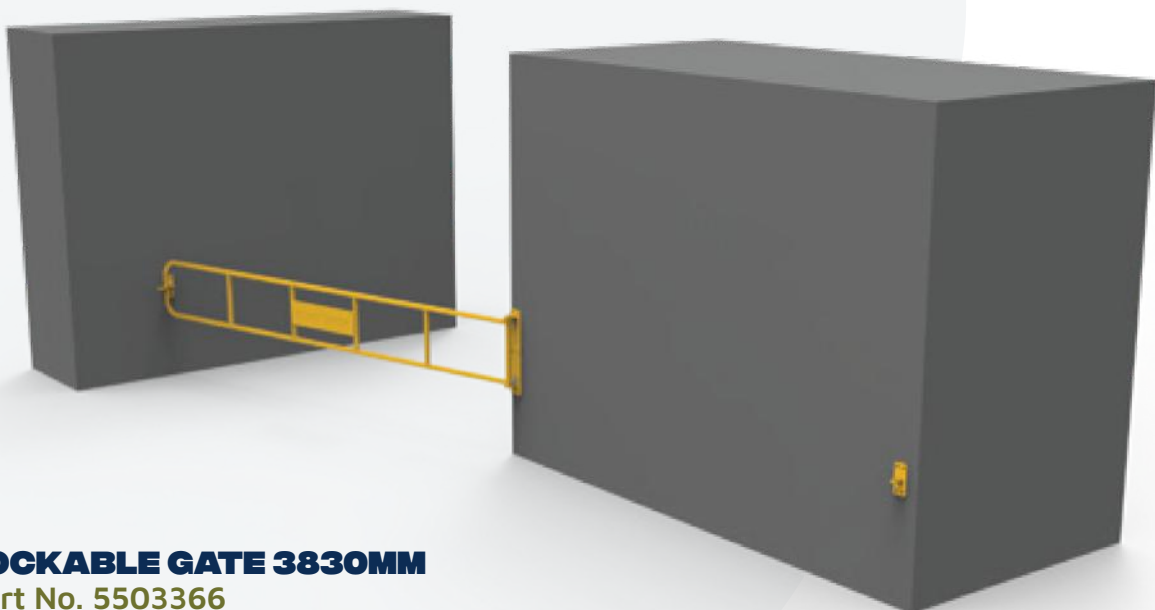
LOCKABLE GATE 2430MM

Part No. 5503367

Site and plant gates designed to aid in personnel and area management. Our gates can be completely customised to suit your requirements.

CONSTRUCTION

- Heavy-duty steel
- Blasted and high-performance coated

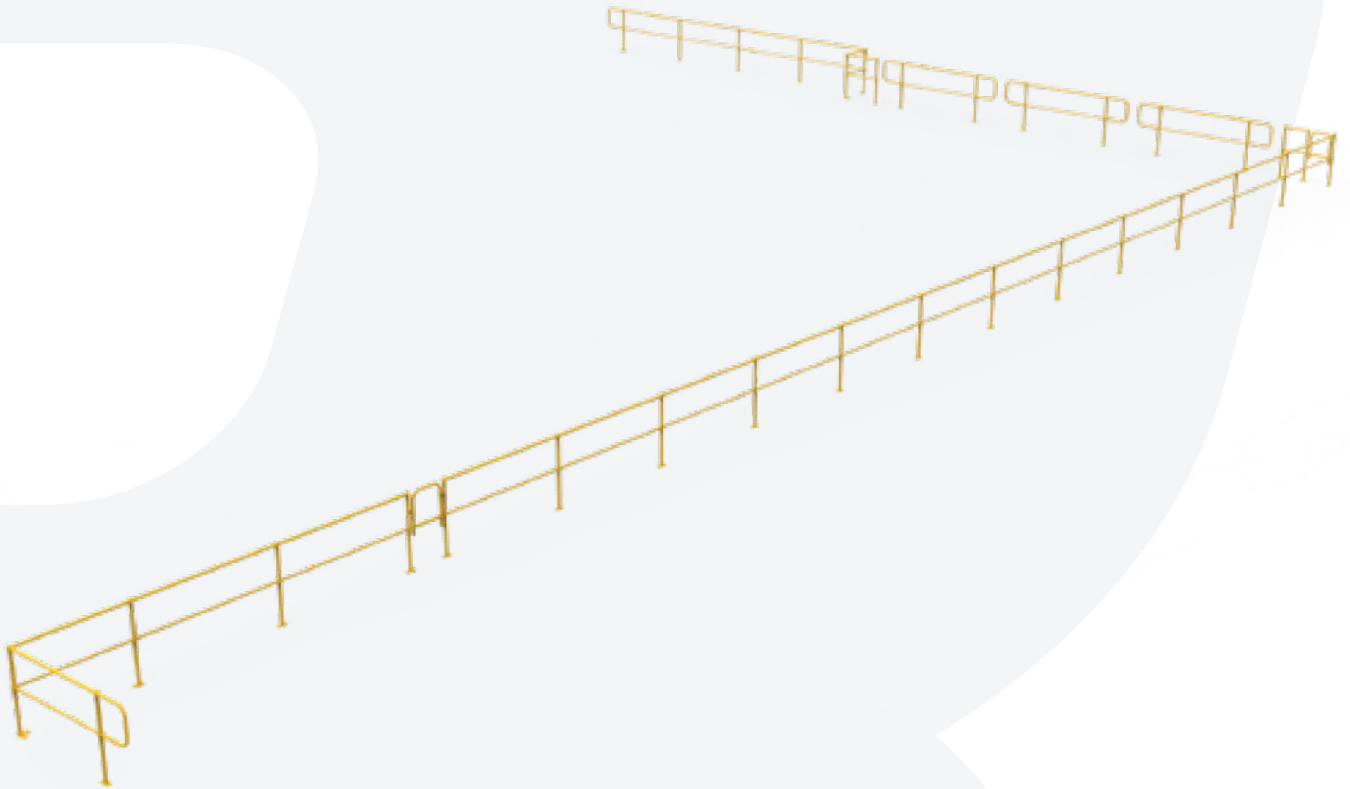


LOCKABLE GATE 3830MM

Part No. 5503366

SITE HANDRAILING

SITE HANDRAILING



SITE HANDRAILS

Part No. 5502863



HANDRAIL AND SELF-CLOSING GATE 1000MM

Part No. 5502641



BARRIERS

 bendtechgroup.com.au



BARRIERS

We supply all barrier and W-beam components and configurations. Either send us a list of parts and requirements or send us the details of the area you need to barricade.

WE CAN SUPPLY ANY LENGTH OR AMOUNT OF:

- W-beam • Bends • Fixings • Posts • Nosing's • Hardware • Signage



“ WE CAN CUSTOMISE ANY PRODUCT
FOR YOUR SITE REQUIREMENTS ”

GRATING & FENCING

GRATING AND FENCING

FENCING

We supply all fencing and gate components and configurations. Either send us a list of parts and requirements or send us the details of the area you need to fence or enclose

GRATING

We supply all grating components, patterns and finishes. You can send us your requirements or list of parts and we will supply you with everything you need.

MATERIAL OPTIONS :

• Aluminium • Steel • Stainless steel 304 and 316

FINISHING OPTIONS :

• Untreated • Galvanised (steel only) • Bitumen dipped (steel only)
• Electro-polished (stainless steel only) • Anodised • Powder coated
• Mill finish (aluminium or stainless steel only)

WE CAN SUPPLY ANY LENGTH, SIZE OR AMOUNT OF:

• Rolls of fencing • Posts • Wire or barbed wire
• Gates • Hinges • Locks • Hardware

PATTERN OPTIONS :

• Load Bar Pitch 30mm / Cross Rod Pitch 100mm
• Load Bar Pitch 30mm / Cross Rod Pitch 50mm
• Load Bar Pitch 40mm / Cross Rod Pitch 100mm
• Load Bar Pitch 40mm / Cross Rod Pitch 50mm
• Load Bar Pitch 60mm / Cross Rod Pitch 50mm

*Serrated and plain bars available with any configuration or finish

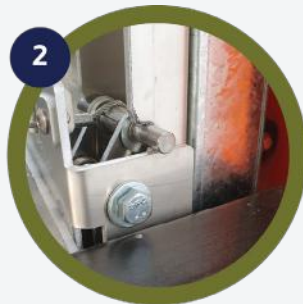
ADJUSTABLE HEIGHT PLATFORMS

Vendor No. 1216716

GIRAFFE SERIES BENEFITS



Efficient to climb with constant grade stair at any platform height



Anti sway platform locks. Physical lock at every step height



3 Gate gives access to work surface off the end or either side



Safe and steady height adjustment with hydraulic safety valve + decent speed control



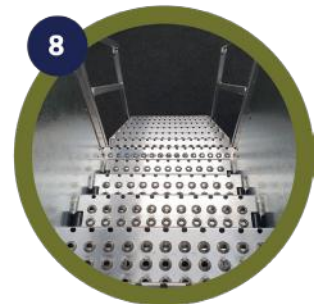
Minimal floor footprint that remains the same for all platform heights



Easy to load and transport with fork lift pockets in chassis



Reach over obstacles with generous 1.74m platform



Climb or descend spacious, easy gradient stairs effortlessly



GIRAFFE SERIES BENEFITS

Replace multiple fixed height platforms with one versatile high quality multiuse unit. The result is a truly versatile workstation.

The Giraffe can nose its way into many different situations, giving comfortable, constant grade stair access. The wide, flat deck makes previously awkward, dangerous and time consuming jobs easy, safe, and very efficient.



Prevent falls down the stair with the firm safety bar





GIRAFFE G20 HEIGHT RANGE

Giraffe
G20



WLL 300kg/660 lbs
www.equiptec.co



GIRAFFE G20 HEIGHT RANGE

*One base model reaching up to 4.7m

GIRAFFE G20

Part No. 5800500

CONSTRUCTION

- Deck height range: 1500mm – 2900mm
- Overall width: 1456mm
- Overall length: 4495mm
- Platform width: 780mm
- Platform length: 1786mm
- WLL: 300kg



GIRAFFE G20 + 1 STEP

Part No. 5800502

CONSTRUCTION

- Deck height range: 1800mm – 3100mm
- Overall width: 1456mm
- Overall length: 4750mm
- Platform width: 780mm
- Platform length: 1786mm
- WLL: 300kg



GIRAFFE G20 + 2 STEP

Part No. 5800503

CONSTRUCTION

- Deck height range: 2000mm – 3300mm
- Overall width: 1456mm
- Overall length: 4945mm
- Platform width: 780mm
- Platform length: 1786mm
- WLL: 300kg



GIRAFFE G20 HEIGHT RANGE

*One base model reaching up to 4.7m



GIRAFFE G20 + 4 STEP

Part No. 5800504

- Deck height range: 2400mm – 3800mm
- Overall width: 1900mm
- Overall length: 5395mm
- Platform width: 780mm
- Platform length: 1786mm
- WLL: 300kg



GIRAFFE G20 + 8 STEP

Part No. 5800505

- Deck height range: 3700mm – 4700mm
- Overall width: 2500mm
- Overall length: 7270mm
- Platform width: 780mm
- Platform length: 1786mm
- WLL: 300kg



“ **MAKING MAINTENANCE
ON-SITE SAFE, EFFICIENT
AND EASY** ”



GIRAFFE

OPTIONAL ACCESSORIES

The Giraffe G20 system includes many retrofittable accessories allowing you to configure a more exact solution for your access challenges.



HAMMERHEAD DECK

Part No. 5800507

- With a capacity of 200kg WLL this deck not only gives more room, but also offers both side gates and individually removable front facing gates. That's great unobstructed access to the workface on one or both sides.



SLIDE OUT DECK

Part No. 5800506

- The Slide Out Deck allows you to reach out up to 2.9m over an obstacle, even with a 150kg loading. It still features 3 exit gates as does the standard deck and rolls out effortlessly at any height.
- Once you are finished with it, simply slide it back in out of the way.



ANGLED DECK

Part No. 5800508

- When you are faced with tight space the G20 Angled Deck will save you precious room.
- With a 150kg capacity it includes an end gate and the same pack components can be assembled either to the right hand or left hand sides.



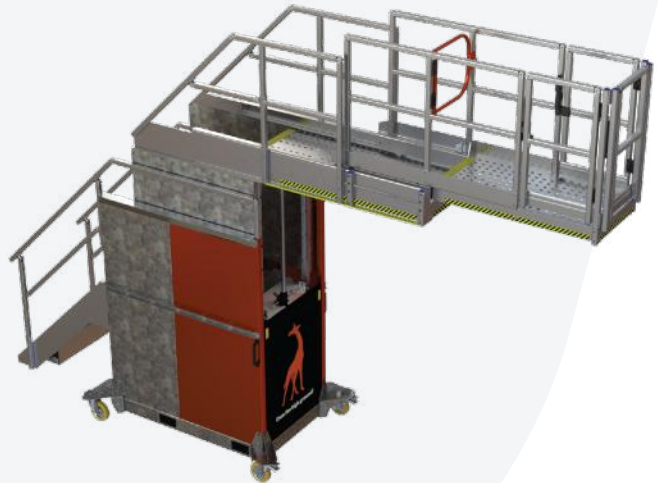
ALL TERRAIN KIT

- Larger diameter, heavy duty, towable wheels along with Jack Stands at each corner allow units with this accessory added to operate off the hard stand.
- With a level bubble on each corner, its easy to get the unit level and firm even if the ground is uneven.

GIRAFFE G20 CONFIGURATIONS



**GIRAFFE G20 ENGINEERS
MAINTENANCE STAIR**



**GIRAFFE G20 ENGINEERS
MAINTENANCE STAIR W
SLIDE OUT DECK**



**GIRAFFE G20 ENGINEERS
MAINTENANCE STAIR W
HAMMERHEAD DECK**



**GIRAFFE G20 + 1 STEP
ENGINEERS MAINTENANCE
STAIR**



GIRAFFE **G20 CONFIGURATIONS**



**GIRAFFE G20 + 1 STEP
ENGINEERS MAINTENANCE
STAIR W SLIDE OUT DECK**



**GIRAFFE G20 + 1 STEP
ENGINEERS MAINTENANCE
STAIR W HAMMERHEAD DECK**



**GIRAFFE G20 + 2 STEP
ENGINEERS MAINTENANCE
STAIR**



**GIRAFFE G20 + 2 STEP
ENGINEERS MAINTENANCE
STAIR W SLIDE OUT DECK**

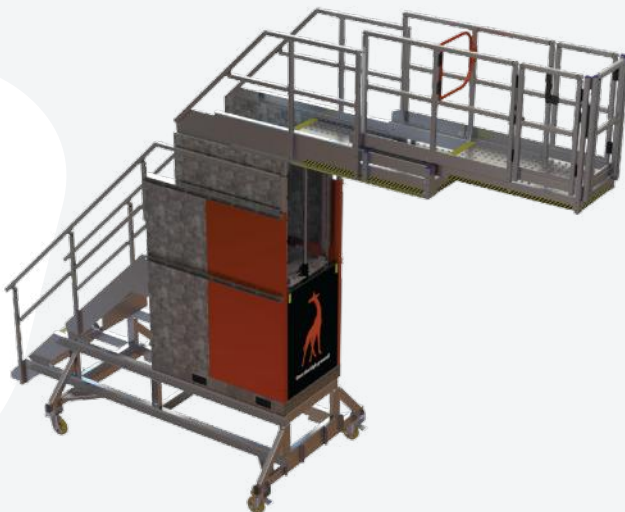
GIRAFFE G20 CONFIGURATIONS



**GIRAFFE G20 + 2 STEP
ENGINEERS MAINTENANCE
STAIR W HAMMERHEAD DECK**



**GIRAFFE G20 + 4 STEP
ENGINEERS MAINTENANCE
STAIR**



**GIRAFFE G20 + 4 STEP
ENGINEERS MAINTENANCE
STAIR W SLIDE OUT DECK**



**GIRAFFE G20 + 4 STEP
ENGINEERS MAINTENANCE
STAIR W HAMMERHEAD DECK**

GIRAFFE G20 CONFIGURATIONS



**GIRAFFE G20 + 8 STEP
ENGINEERS MAINTENANCE
STAIR**



**GIRAFFE G20 + 8 STEP
ENGINEERS MAINTENANCE
STAIR W SLIDE OUT DECK**

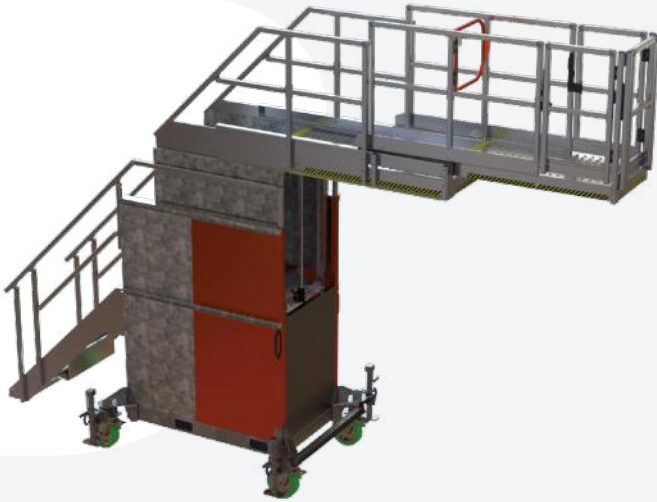


**GIRAFFE G20 + 8 STEP
ENGINEERS MAINTENANCE
STAIR W HAMMERHEAD DECK**



**GIRAFFE G20 ALL TERRAIN
ENGINEERS MAINTENANCE
STAIR**

GIRAFFE G20 CONFIGURATIONS



**GIRAFFE G20 ALL TERRAIN
ENGINEERS MAINTENANCE
STAIR W SLIDE OUT DECK**



**GIRAFFE G20 ALL TERRAIN
ENGINEERS MAINTENANCE
STAIR W HAMMERHEAD DECK**



**GIRAFFE G20 ALL TERRAIN
+ 1 STEP ENGINEERS
MAINTENANCE STAIR**



**GIRAFFE G20 ALL TERRAIN + 1
STEP ENGINEERS MAINTENANCE
STAIR W SLIDE OUT DECK**



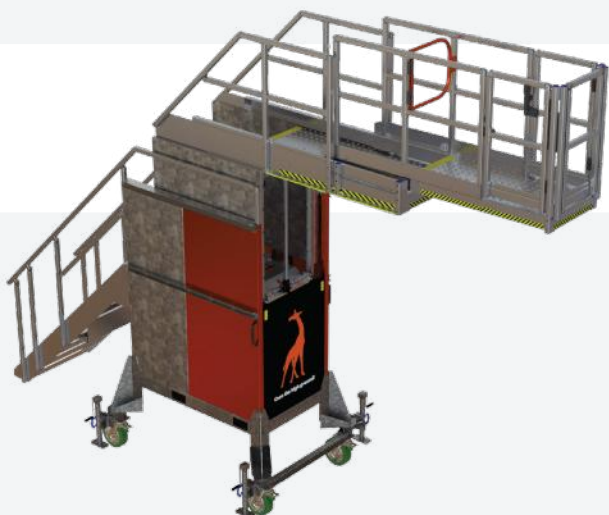
GIRAFFE G20 CONFIGURATIONS



**GIRAFFE G20 ALL TERRAIN + 1
STEP ENGINEERS MAINTENANCE
STAIR W HAMMERHEAD DECK**



**GIRAFFE G20 ALL TERRAIN + 2
STEP ENGINEERS MAINTENANCE
STAIR**



**GIRAFFE G20 ALL TERRAIN + 2
STEP ENGINEERS MAINTENANCE
STAIR W SLIDE OUT DECK**



**GIRAFFE G20 ALL TERRAIN + 2
STEP ENGINEERS MAINTENANCE
STAIR W HAMMERHEAD DECK**

GIRAFFE G20 CONFIGURATIONS



**GIRAFFE G20 ALL TERRAIN + 4
STEP ENGINEERS MAINTENANCE
STAIR**



**GIRAFFE G20 ALL TERRAIN + 4
STEP ENGINEERS MAINTENANCE
STAIR W SLIDE OUT DECK**



**GIRAFFE G20 ALL TERRAIN + 4
STEP ENGINEERS MAINTENANCE
STAIR W HAMMERHEAD DECK**



**GIRAFFE G20 ALL TERRAIN + 8
STEP ENGINEERS MAINTENANCE
STAIR**



GIRAFFE **G20 CONFIGURATIONS**



**GIRAFFE G20 ALL TERRAIN + 8
STEP ENGINEERS MAINTENANCE
STAIR W SLIDE OUT DECK**



**GIRAFFE G20 ALL TERRAIN + 8
STEP ENGINEERS MAINTENANCE
STAIR W HAMMERHEAD DECK**

“ **MAKING MAINTENANCE
ON-SITE SAFE, EFFICIENT
AND EASY** ”

MONKEY SERIES BENEFITS



Extra tough, sturdy and stable workdeck with fully compliant guard and handrails



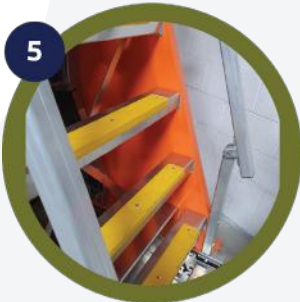
Room to work on this generously sized work deck...it will handle you and your gear, WLL250kg / 551lb



Self closing, full size front gate



Convenient, solid rear sprung loaded gate



Easy to climb with constant grade access and super tough, anti slip hi-viz treads



Fits multiple jobs with 6 height instalments. Minimal floor footprint that remains the same for all platform heights



Rapid spring assisted adjustment

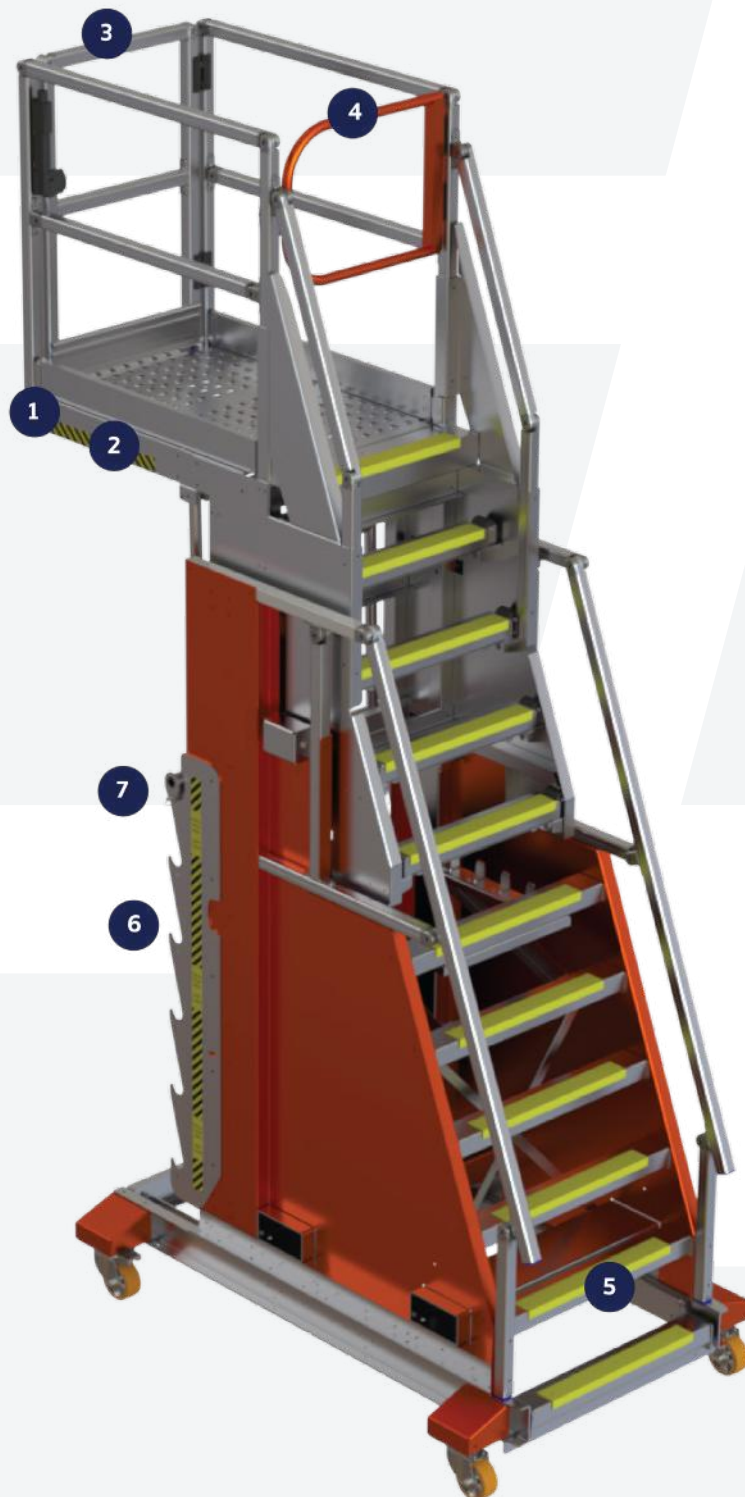


MONKEY SERIES BENEFITS

A solitary Monkey MX21 can replace multiple fixed height platforms.

The Monkey can be used as both a work deck or an accessway.

Efficient in use and efficient to store...here are a few more great Monkey benefits!





MONKEY MX21 HEIGHT RANGE



MONKEY SERIES MX21 HEIGHT RANGE

*One base model reach up to 5.75m / 18 1/2 ft

MONKEY MX21

Part No. 5600543

CONSTRUCTION

- Deck height range: 1500mm – 2750mm
- Overall width: 1177mm
- Overall length: 2242mm
- Platform width: 642mm
- Platform length: 1041mm
- Max Reach Height: 4.75m



MONKEY MX21 + 4 STEP

CONSTRUCTION

- Deck height range: 2500mm – 3750mm
- Overall width: 1177mm
- Overall length: 2684mm
- Platform width: 642mm
- Platform length: 1041mm
- Max Reach Height: 5.75m



MONKEY OPTIONAL ACCESSORIES

The Monkey MX21 system includes many retrofittable base options allowing you to configure a more exact solution for your access challenges.



EXTENDED CANTILEVER

- The Extended Cantilever option gives awesome reach capacity - up to 1.2m / 4 ft straight out! This 'bolt on' accessory (including the neatly stowed counterweight system) creates an amazing long deck that noses right up to that difficult job. Note this option will reduce the WLL to 150kg / 330lb.



HAMMERHEAD DECK

- This option still maintains a 200kg / 441lb WWL and allows unobstructed access across a wide 1.8m / 5.9ft front.
- Ideal for working on wide wall areas, or for jobs where two people are required.



GO-BASE

- Glide around the workshop on 4 wheels. For longer distance moves, use the front wheel directional locks for easy guidance. Flick them off again in seconds for close up manoeuvres if needed. And when you are set to climb, just standing on the bottom tread auto locks all 4 wheel brakes firmly!



ALL TERRAIN KIT

- This option allows you to work outdoors and off the hard stand. With 4 rubber wheels the MX21 can be pushed over metal yards and it also has 4 independantly adjustable jacks that provide both stability and the ability to level the MX21 on undulating sites.

**MONKEY****OPTIONAL ACCESSORIES**

The Monkey MX21 system includes many retrofittable base options allowing you to configure a more exact solution for your access challenges.

**4 STEP SUB CHASSIS**

- Additional height is gained through sub chassis extension kits. These fit easily with all other base kits (Go-Base + All Terrain) and the height adjusting ratchet is lowered so it remains at a comfortable reach height.

**HYDRAULIC KIT**

- The smooth operation, double action Hydraulic kit makes light work of adjusting deck height, even with additional weight kits such as the Extended Cantilever or Hammerhead Deck.

MONKEY **MX21 CONFIGURATIONS**



**MONKEY MX21 ENGINEERS
MAINTENANCE STEPS
+ GO-BASE**



**MONKEY MX21 ENGINEERS
MAINTENANCE STEPS
+ GO-BASE W HYDRAULICS**



**MONKEY MX21 ENGINEERS
MAINTENANCE STEPS
+ GO-BASE W HYDRAULICS
+ EXTENDED CANTILEVER**



**MONKEY MX21 ENGINEERS
MAINTENANCE STEPS
+ GO-BASE W HYDRAULICS
+ HAMMERHEAD DECK**



MONKEY MX21 CONFIGURATIONS



**MONKEY MX21 ENGINEERS
MAINTENANCE STEPS
+ ALL TERRAIN KIT**



**MONKEY MX21 ENGINEERS
MAINTENANCE STEPS + ALL
TERRAIN KIT W HYDRAULICS**



**MONKEY MX21 ENGINEERS
MAINTENANCE STEPS + ALL
TERRAIN KIT W HYDRAULICS
+ HAMMERHEAD DECK**



**MONKEY MX21 ENGINEERS
MAINTENANCE STEPS
+ 4 STEP W GO-BASE**

MONKEY MX21 CONFIGURATIONS



**MONKEY MX21 ENGINEERS
MAINTENANCE STEPS + 4 STEP
SUB CHASSIS W GO-BASE +
HYDRAULICS**



**MONKEY MX21 ENGINEERS
MAINTENANCE STEPS + 4 STEP
SUB CHASSIS W GO-BASE +
HYDRAULICS + EXTENDED
CANTILEVER**



**MONKEY MX21 ENGINEERS
MAINTENANCE STEPS + 4 STEP
SUB CHASSIS W GO-BASE +
HYDRAULICS + HAMMERHEAD
DECK**



**MONKEY MX21 ENGINEERS
MAINTENANCE STEPS + 4 STEP
SUB CHASSIS W ALL TERRAIN**



MONKEY MX21 CONFIGURATIONS



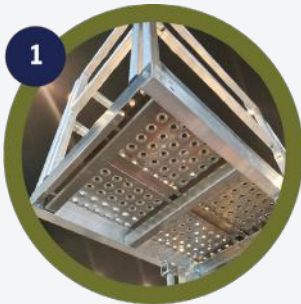
**MONKEY MX21 ENGINEERS
MAINTENANCE STEPS + 4 STEP
SUB CHASSIS W ALL TERRAIN +
HYDRAULICS**



**MONKEY MX21 ENGINEERS
MAINTENANCE STEPS + 4 STEP
SUB CHASSIS W ALL TERRAIN +
HYDRAULICS + HAMMERHEAD
DECK**

“ **MAKING MAINTENANCE
ON-SITE SAFE, EFFICIENT
AND EASY** ”

SQUIRREL SERIES BENEFITS



Extra tough, sturdy and stable workdeck with fully compliant guard and handrails



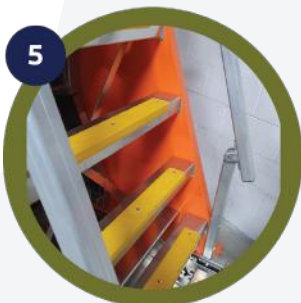
Room to work on this generously sized work deck...it will handle you and your gear, WLL200kg / 441lb



Self closing, full size front gate



Convenient, solid rear sprung loaded gate



Easy to climb with constant grade access and super tough, anti slip hi-viz treads



Fits multiple jobs with 4 height instalments. Minimal floor footprint that remains the same for all platform heights



Rapid spring assisted adjustment



SQUIRREL SERIES BENEFITS

A solitary Squirrel S23 can replace multiple fixed height platforms.

The Squirrel can be used as both a work deck or an accessway.

Efficient in use and efficient to store...here are a few more great Squirrel benefits!





SQUIRREL S23 HEIGHT RANGE

SQUIRREL

S23 HEIGHT RANGE

*One base model - reach up to 4.4m / 14 1/4 ft

SQUIRREL S23

CONSTRUCTION

- Deck height range: 750mm – 1500mm
- Overall width: 1047mm
- Overall length: 1596mm
- Platform width: 516mm
- Platform length: 856mm
- Max Reach Height: 3.5m



SQUIRREL S23 + 2 STEP

CONSTRUCTION

- Deck height range: 1250mm – 2000mm
- Overall width: 1047mm
- Overall length: 1868mm
- Platform width: 516mm
- Platform length: 856mm
- Max Reach Height: 4.0m



SQUIRREL S23 + 4 STEP

CONSTRUCTION

- Deck height range: 1750mm – 2500mm
- Overall width: 1047mm
- Overall length: 2187mm
- Platform width: 516mm
- Platform length: 856mm
- Max Reach Height: 4.5m



SQUIRREL OPTIONAL ACCESSORIES

The Squirrel S23 system includes many retrofittable base options allowing you to configure a more exact solution for your access challenges.



EXTENDED CANTILEVER

- Its often necessary to reach over obstacles to get to your project. The Extended Cantilever option gives awesome reach capacity - up to 630mm /24.8 in straight out! This 'bolt on' accessory (including the neatly stowed counterweight system) creates an amazing long deck that noses right up to that difficult job.



GO-BASE

- Glide around the workshop on 4 wheels. For longer distance moves, use the front wheel directional locks for easy guidance. Flick them off again in seconds for close up manoeuvres if needed. And when you are set to climb, just standing on the bottom tread auto locks all 4 wheel brakes firmly!



NARROW GO-BASE

- All the same attributes of the Standard Go-Base, but condensed to fit within the width of the Squirrel frame. Excellent for areas with restricted maneuvering room and all counterbalanced to retain the same excellent stability.



ALL TERRAIN KIT

- This option allows you to work outdoors and off the hard stand. With 4 rubber wheels the S23 can be pushed over metal yards and it also has 4 independantly adjustable jacks that provide both stability and the ability to level the S23 on undulating sites.



SQUIRREL **OPTIONAL ACCESSORIES**

The Squirrel S23 system includes many retrofittable base options allowing you to configure a more exact solution for your access challenges.



STEP SUB CHASSIS

- Additional height is gained through sub chassis extension kits. These fit easily with all other base kits (Go-Base + All Terrain) and the height adjusting ratchet is lowered so it remains at a comfortable reach height where applicable.

SQUIRREL S23 CONFIGURATIONS



**SQUIRREL S23 ENGINEERS
MAINTENANCE STEPS +
GO-BASE**



**SQUIRREL S23 ENGINEERS
MAINTENANCE STEPS +
GO-BASE W EXTENDED
CANTILEVER**



**SQUIRREL S23 ENGINEERS
MAINTENANCE STEPS +
NARROW GO-BASE**



**SQUIRREL S23 ENGINEERS
MAINTENANCE STEPS +
NARROW GO-BASE W
EXTENDED CANTILEVER**



SQUIRREL S23 CONFIGURATIONS



**SQUIRREL S23 ENGINEERS
MAINTENANCE STEPS +
ALL TERRAIN**



**SQUIRREL S23 ENGINEERS
MAINTENANCE STEPS +
ALL TERRAIN W EXTENDED
CANTILEVER**



**SQUIRREL S23 ENGINEERS
MAINTENANCE STEPS +
2 STEP W GO-BASE**



**SQUIRREL S23 ENGINEERS
MAINTENANCE STEPS +
2 STEP W GO-BASE W
EXTENDED CANTILEVER**

SQUIRREL S23 CONFIGURATIONS



**SQUIRREL S23 ENGINEERS
MAINTENANCE STEPS + 2
STEP W NARROW GO-BASE**



**SQUIRREL S23 ENGINEERS
MAINTENANCE STEPS + 2
STEP W NARROW GO-BASE
+ EXTENDED CANTILEVER**



**SQUIRREL S23 ENGINEERS
MAINTENANCE STEPS + 2
STEP W ALL TERRAIN**



**SQUIRREL S23 ENGINEERS
MAINTENANCE STEPS + 4
STEP W GO-BASE**



SQUIRREL S23 CONFIGURATIONS



**SQUIRREL S23 ENGINEERS
MAINTENANCE STEPS +
4 STEP W GO-BASE +
EXTENDED CANTILEVER**



**SQUIRREL S23 ENGINEERS
MAINTENANCE STEPS +
4 STEP W ALL TERRAIN**

CAPABILITIES (BEND-TECH)

Bend-tech is a bespoke design, engineering and fabrication firm that has been servicing the Defence industry for over 20 years. A family-owned operation which has now grown to over 75 people, Bend-tech specialises in providing innovative, engineered, and certified solutions for safety and efficiency problems to industry.

Our 10,000 sqm facility in Welshpool houses our team and local manufacturing. Our extensive capability and embedment in the resource sector has taught us that what we provide is unrivalled and is primed for the betterment and support of the Defence industry.

CAPABILITY

- Design, engineering, and fabrication
- On-site consulting and 3D scanning to enable intelligent design
- Access platforms and scaffold elimination
- Weight reduction and space saving
- Manual handling elimination
- Work stands
- Equipment and material storage and handling solutions
- Workbenches and tool storage
- Site maintenance and upgrades
- Container fitouts

DISCRIMINATORS

- In-house design, engineering team with over 15 internal team members
- 3D scanning, scoping, and processing capabilities
- 10000 square metres of fabrication facilities
- 80 tonne lifting capability, 20 metre underhook lift
- Our Australia-wide consultation team and processes with over 10 team members
- Dedicated research and development department and 3D printing capabilities

TAKE NOTEA large grid of graph paper for taking notes. The grid is composed of small squares. Overlaid on the grid are several light gray rectangular shapes of varying sizes and orientations, some of which are slightly tilted. These shapes appear to be placeholders for images or diagrams.

B / **BIGGER THAN BUSINESS**

TAKE NOTE

A large rectangular area filled with a light blue grid pattern, resembling graph paper, intended for taking notes. The grid consists of small squares and covers most of the page area below the header and above the footer.

TAKE NOTEA large grid of graph paper for taking notes. The grid is composed of small squares and is divided into three horizontal sections by two light gray lines. The top section is the largest, followed by the middle section, and the bottom section is the smallest. The grid is intended for writing notes during a presentation or lecture.

3 / BIGGER THAN BUSINESS

TAKE NOTE



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