



**Delivering end-to-end  
solutions for complex steel  
processing and supply.**

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**TheHub**™  
National Product,  
Processing & Solutions

  
**BlueScope  
Distribution**

# National Product, Processing & Solutions Hub

The BlueScope Distribution National Product, Processing & Solutions Hub provides our customers with an end to end project management system of complex steel processing, component manufacturing and steel kits ready for product assembly. Our team have the capability to support customers with highly complex or significant projects in infrastructure, defence, renewable energy, mining oil and gas and transport.

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Strategically located in Unanderra, NSW, we are in close proximity to the BlueScope mill and other strategic partners, allowing us to provide an optimised and highly efficient supply chain solution. BlueScope Distribution's Product Processing and Solutions Hub aims to support our customers to grow by providing them with efficiencies and ready to manufacture components, on time and to specification.

Through our highly experienced project management team, BlueScope Distribution's National Product, Processing and Solutions Hub offers customers:

## Complex processing and component manufacture

- A highly experienced in-house programming team assists to ensure customer complex processing requirements are delivered to on time and to specification.
- Weld prep ready components which are plasma, oxy or laser processed and include:
  - Complex Beveling (K Bevels, Y Bevels, Variable Bevels)
  - Drilling, Tapping, Etching, Notching
  - Blasting, Priming, Galvanising, Bending & Rolling
- 2 x 18.5m bed x 3.5m wide with up to 37m of plasma processing capability.
- 38m long x 3.5m wide bed laser processing capability.

## Customer specific product in kit form ready for assembly

- To improve customer efficiency, components can come etched with fold lines, directional lines, component traceability using etching and laser/ink-jet marking onto plate, ready for on-site assembly.
- Components can be barcode or QR code laser printed to assist with component traceability and quality assurance processes.

## End-to-end management of complex steel processing and supply

- Dedicated project coordinators support the delivery of projects from start to finish:
  - Weekly discussions between our project coordinators and our customer's project managers to ensure project timelines are captured and material supply is coordinated accordingly

- Providing just-in-time material delivery per dynamic project management timelines
- An agile approach to project management to help risk mitigate project cost escalation
- Coordinate material supply, material processing, blast & prime and other material processing required to deliver ready to assemble finished components on site and to specification
- In house quality assurance processes to ensure products dispatched meet project specification requirements

## Domestic supply and processing of steel for complex and significant projects

- Customers delivering projects which are highly steel intensive require a partner who can:
  - Provide project management services to ensure material is delivered just-in-time aligned with dynamic project management timelines
  - Complex processing with a high degree of precision and efficiency
  - A cost-effective supply chain with minimal handling of material from procurement to delivery
  - Storage solutions for when projects may be delayed
  - Improve customer efficiency by providing kitting solutions for ease and effective assembly of pre-processed components
  - Product and component traceability to meet varied levels of quality assurance requirements

# Our national capability helps customers deliver significant projects Australia wide

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BlueScope Distribution's National Product, Processing & Solutions Hub delivers centrally managed plate processing and project management services to customers supporting the defence, infrastructure, renewable energy, transport, mining and agricultural industries.



## Defence

National access to quality steel and aluminium products, including quench and tempered steel plate, is critical for defence projects. These products meet applicable standards for Australian conditions. The National Product, Processing and Solutions Hub provides a total project management solution, offering product, processing and project management services to ensure projects are delivered on time and to specification.



## Infrastructure

Successful civil construction companies need access to a wide range of products and processing services to meet project needs. The National Product, Processing and Solutions Hub provides steel intensive infrastructure projects continuity of supply and certification and project management alignment with customers servicing Australia's infrastructure industry.



## Renewable energy

We work with Australian customers delivering renewables projects across Australia – wind, solar & hydro. Our complete range of steel and aluminium, diversified processing capability and end to end supply chain and project management services enable us to ensure projects are delivered per the project specified timelines.



## Transport

The National Product, Processing and Solutions Hub's processing capability enables us to provide semi-finished steel and aluminium componentry for ease of fabrication and assembly by our transport customers. A comprehensive range of products are manufactured to meet transport manufacturing requirements, supplied by BlueScope Distribution Australia wide.



## Mining, Oil & Gas

Our Mining, Oil and Gas customers often face challenges with remote project locations, as well as sourcing reliable supply of quality product, associated processing and timely supply. We work hard to provide customers a streamlined steel and aluminium supply chain solutions to ensure projects are delivered on time, to specification and within budget.



## Agriculture

Our customers servicing the agricultural segment with on-farm production equipment, manufacturing and storage products require steel supplied and processed to project specification, often delivered to regional locations. The National Product, Processing and Solutions Hub enables our customers servicing the agricultural sector to access semi-finished steel components that are ready for local assembly and installation.



# Plasma processing capabilities

**The National Products, Processing & Solutions Hub utilises a state of the art, multi-functional processing line to deliver both plasma & oxyfuel cutting capability.**

Our MicroStep multi-function plasma processing line enables us to provide unique, optimal solutions across a range of steel thicknesses of up to 150mm while maintaining cut tolerances to meet or exceed ISO9013 standards. Our market leading integrated laser scanning and auto-calibration capability allows for this to be achieved while maximising yield performance for our customers.

In addition to thermal cutting capability, our team at the National, Processing & Solutions Hub also offer a range of high-end plate processing, including:

- » Complex bevelling (K bevels, Y bevels, variable bevels)
- » Drilling
- » Tapping
- » Notching
- » Counter bore
- » Laser etching & Inkjet marking
- » 2 x 18.5m bed x 3.5m wide with up to 37m of plasma processing capability

Tolerances are customised beyond DIN ISO 2768 - M & ISO 9013\_2017.

## Operational Processes

### 1. Thermal

Piercing, straight square and curved square cutting on steel plate thickness up to 150mm using either plasma or oxyfuel cutting. The Hypertherm XPR 300 Optimix Plasma capability ensures cutting tolerances meet or exceed ISO9013 Class 2.

Constant angle, K bevels and variable angle bevels are available on plate thickness up to 150mm with operating capabilities for bevelling at  $\pm 45$  degrees (additional capability dependant on thickness and fuel medium). Surface finish and cut tolerances are able to meet or exceed ISO9013 Class 2 (Surface Quality – OxyFuel is Class 3) to minimise or eliminate requirement for machined finishes.

Cutting beds are designed to allow plate sizes up to 3.5m wide and 18.5m long. All steel plate is laser scanned to optimise cutting programs and minimise yield loss. Auto calibration ensures that tolerances can be maintained throughout cutting runs.

### 2. Drilling/Tapping

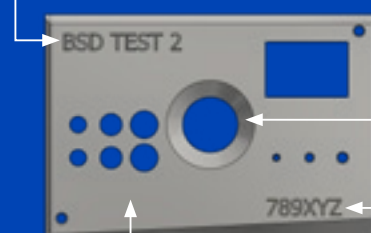
Drilling is available from  $\varnothing 4\text{mm}$  to  $\varnothing 40\text{mm}$  and holes can be countersunk. For requirements  $> \varnothing 40\text{mm}$  the Hypertherm XPR300 Optimix Plasma capability is utilised. Power Hole technology is used to eliminate tapers and minimise divot/ding defects where plate thickness to hole diameter is up to a ratio of 1:1. Tapping is available for a range of M4 to M33.

### 3. Marking

Laser marking, inkjet marking and etching is available on all plate sizes, thicknesses and parts created.

#### Etching

For product identification or weld attachment outlines



**Blast & prime**  
Available on request

#### Power hole thermal cut

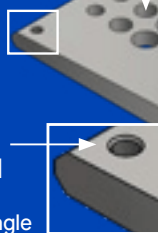
Minimises dint/ding defects – clean cut

#### Laser or inkjet printing

For product identification

#### Drilling

#### Tapping



#### Variety of bevel profiles

Constant angle bevel, complex variable bevel, K bevel

#### Constant angle bevel

Industry standard bevel

#### Complex variable bevel

For improved weld integrity

# Plasma technical details

The following table outlines the technical specifications of our multi-function plasma machine.

Process	Cut Method	Operating range	Tolerance	Reference information	
Pierce	Plasma or Oxy				
Square cut straight	Plasma or Oxy		ISO 9013*	<b>Plasma</b> Surface Quality: Class 2 Dimensional Tolerance: Class 1	
Square cut curved	Plasma or Oxy				<b>Oxy</b> Surface Quality: Class 3 Dimensional Tolerance: Class 1
Bevel cut constant angle	Plasma or Oxy	Plasma ≤ 25mm: ±50° > 25mm: ±45°  Oxy ≤ 60mm: ±60° > 60mm: ±50°		<b>Plasma</b> Surface Quality: Class 2 Dimensional Tolerance: Class 2	
Bevel cut variable angle	Plasma or Oxy				<b>Oxy</b> Surface Quality: Class 3 Dimensional Tolerance: Class 2
K Bevel	Plasma or Oxy				
Hole	Drill	Ø4mm to Ø40mm			
	Plasma	> Ø40mm	ISO 9013*	Surface Quality: Class 2 Dimensional Tolerance: Class 1	
	Oxy	Contractor to specify		Surface Quality: Class 2 Dimensional Tolerance: Class 1	
Countersunk hole	Countersunk drill	Ø4mm to Ø40mm			
	Plasma	> Ø40mm	ISO 9013*	Surface Quality: Class 2 Dimensional Tolerance: Class 1	
	Oxy	> Ø40mm		Surface Quality: Class 2 Dimensional Tolerance: Class 1	
Tapped hole	Tap	M4 to M33			
Marking - laser	Laser				
Marking - Inkjet	Inkjet				

\* Dimensional tolerances may be affected by thermal deformation, especially on long cuts  
 Surface Quality as per ISO9013 Clause 7  
 Dimensional tolerance as per ISO9013 Clause 8



# Laser processing capabilities

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## The National Products, Processing & Solutions Hub provides laser cutting capability with precision and repeatability

At the National Product, Processing and Solutions Hub, our advanced 38m x 3.5m bed laser cutting system delivers exceptional precision, repeatability, and a clean finish—ensuring optimal efficiency and seamless project management.

Capable of processing a wide range of heavy-duty steel products, ranging from 3mm to 30mm plate thickness, our laser system achieves high precision, smooth cuts, and intricate designs with ease. Whether you're working on large-scale industrial components or detailed custom work, our laser cutting capabilities are designed to meet your exact specifications.

### Capabilities include:

- » Complex bevelling (K bevels, Y bevels, variable bevels)
- » Drilling
- » Tapping
- » Notching
- » Counter sunk holes
- » Laser etching





# Laser technical details

Cut type, tolerances and surface finish of cut surface				
Process	Cut method Thickness range of cutting	Operating range	Tolerance	Comment
Square cut	Laser (Oxygen, Nitrogen, or MixGas cutting process)	3 - 30mm	ISO 9013*	Class 2. Surface Quality as per requirements of ISO 9013 Clause 7.
Bevel cut (constant/variable angle, K bevel)	Laser (Oxygen cutting process)	0° - 50°	ISO 9013*	Samples can be provided on request
Bevel cut (constant angle - straight)	Laser (Nitrogen or MixGas cutting process)	0° - 20°	-	-
Hole	Drill	Ø4 - Ø30mm	-	-
	Laser	> Ø30mm	ISO 9013	Class 2. Surface Quality as per requirements of ISO 9013 Clause 7.
Countersunk Hole	Countersunk drill	Ø4 to Ø30mm	-	-
	Laser	> Ø30mm	ISO 9013	Class 2. Surface Quality as per requirements of ISO 9013 Clause 7.
Tapped hole	Tap	M4 to M24	-	-
Marking	Laser	-	-	Contract to provide specification

\*Dimensional tolerances may be affected by thermal deformation, especially on long cuts.

# Other capabilities & solutions

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## Programming and design

Our experienced in-house programming team works closely with customers and our machine operators to ensure processing deliverables are to specification. Utilising world-class programming software capability to program some of the most challenging cutting requirements.

## Pre-heat technology

The National Product, Processing and Solutions Hub offers plate pre-heating capabilities designed to support high-performance applications in industries such as Defence, Mining, and other sectors where maintaining the integrity and strength of steel is critical.

This technology is essential for wear plate applications where pre-heating is necessary to prevent material stress and ensure long-term durability.

Our services are aligned with the specific requirements outlined by steel manufacturers, ensuring that product quality and performance standards are upheld.

## Parts cleaning capability

The National Product, Processing and Solution Hub is proud to introduce our new parts cleaning machine, which enables us to provide clean, dross-free components.

This new capability includes dross free deburring, edge rounding, and finishing. While these services have always been available through the National Product, Processing and Solutions Hub, we have now made an additional investment in a parts cleaning machine to further enhance the quality of component cleaning. This allows us to deliver components to our customers, ready to fabricate.

**Please speak to your account manager for more information about the full range of steel processing options available in-house as well as through our network of trusted partners, including:**

- » Blasting
- » Priming
- » Galvanising
- » Bending
- » Rolling



## Quality standards

ISO 9001  
ISO 14001  
AS/NZS 4600  
AS/NZS 1397  
AS/NZS 1595  
AS/NZS 2728



As a trusted distributor of steel and aluminium products, we partner with our customers to meet their project requirements. Backed by our commitment to quality, we help reduce compliance risk through our ISO 9001 quality management system. We also ensure full material traceability and compliance via our material test certificates. Steel processing services such as blasting, priming, galvanising, bending, and rolling are available through BlueScope Distribution trusted partners. Services are arranged by referral and are not performed by TheHub in-house.



# Our product range

## XLERPLATE® steel



XLERPLATE® steel is available in a range of structural products, boiler and pressure vessel products, and analysis and counterweight products. XLERPLATE® steel consists of standard and custom specifications, allowing you to enjoy a one-stop shop for a vast range of applications including:

- » Mining equipment
- » Storage tanks
- » Wind towers
- » Bridges
- » Structural steel for building constructions

## TRU-SPEC® steel



Providing excellent flatness to help improve cutting and processing efficiency, TRU-SPEC® steel behaves consistently when cutting and stamping. TRU-SPEC® steel is 'memory-free', meaning it is less likely to flex-up and jam or damage the laser cutter. Paper packaging also protects the surface during transport and storage, ensuring excellent surface quality.

This is particularly important in applications including:

- » Structural members
- » Roll-forming applications
- » Brake-press applications
- » Trailer and automotive components
- » Light poles
- » General fabrications

## BISALLOY® Wear steel



Quenched & tempered, abrasion-resistant steel is well established in the market, with designers, fabricators and end-users all optimising their products & services by enhancing the properties of heat-treated steel plate across a range of demanding applications.

BISALLOY® Wear steel plate has long been a popular choice for equipment such as

- » Dump truck bodies
- » Storage bins
- » Hoppers and chutes in the mining and resources sector.

These are applications where lighter weight, wear and impact resistance, and straightforward fabrication have facilitated ready adoption.

## BISALLOY® Armour steel



Australian and International defence industries trust the BISALLOY® Armour steel range as they continuously work with the leaders in science and technology to deliver innovative military-grade steel solutions. By trusting in Bisalloy, you are assured the optimal strength, weldability and toughness for your shielding applications.

With its application in the following sectors:

- » International defence departments
- » Major original equipment manufacturers (OEMs) for land and sea projects
- » Armoured vehicles

BISALLOY® Armour steel has gone through various military standards and specifications in Australia and worldwide.

## Aluminium

At BlueScope Distribution, we are your convenient single-source aluminium suppliers, processor and solutions provider. We specialise in providing a wide range of high-quality aluminium products from our carefully selected partner brands to businesses across Australia and internationally through our export division. While providing quality aluminium products is our key focus, we also pride ourselves on offering in-house processing capabilities as well as a variety of value-add solutions to assist our customers.

Our locally based aluminium teams are specialists in our product range and can advise customers on the best aluminium solutions for their end application. Our aluminium product range includes:

- » Aluminium extrusions
- » Aluminium plate and treadplate
- » Aluminium sheet and coil



# Partnering for project success



## Project management

A dedicated project management team works with customers to ensure projects are delivered on time and to specification. This includes a complete end to end supply chain management solution.



## A national network

The National Product, Processing and Solutions Hub is a part of BlueScope Distribution's national network. Collectively our teams provide customers with steel and aluminium products, processing and solutions. The Unanderra site offers a national capability to deliver significant projects whilst our state based sites work with local customers to deliver on their project needs.



## Single source supplier

Your convenient single-source supplier and processor of everything from BlueScope's massive range of premium products, plus custom grades and Aluminium from our carefully selected partner brands.



## Partnering

Combining technical knowledge, in-depth project management and material processing and logistics, we improve project efficiency through inventory and cashflow management.

## Quality

We provide quality products that are compliant with the relevant Australian testing and compliance standards.



## Strategically located

The National Product, Processing and Solutions Hub is strategically located in Unanderra, NSW. It enables us to capitalise on its close proximity to the BlueScope mill and other local supply partners to provide customers with a highly efficient and streamlined supply chain. The facility offers sea, road, rail and air freight solutions to support project requirements Australia-wide.





## Knowhow

Our highly skilled team provides in-depth product experience, processing knowhow and project management expertise to ensure project requirements are met and projects are delivered on time and to specification.



## Agility

Dedicated to providing agile solutions, our project management team provides a highly responsive service, professional advice and problem solving to help support our customers to deliver on their project requirements.



## Supply chain certainty

We provide customers with surge capability required for the successful delivery of large scale projects. Our project management team works with customers to help deliver projects safely, to specification, on-time and in full.



## Our heritage

Proudly Australian, BlueScope Distribution is part of BlueScope's broader group of businesses. As one of Australia's largest steel and aluminium distributors, our team supports customers to deliver large scale projects Australia wide.



## Comprehensive product range

With robust onshore stock holdings, we offer a diverse product range including: XLERPLATE® steel, TRU-SPEC® steel, BISALLOY® steel and welded beams and columns. Coupled with a comprehensive range of aluminium products and other custom grades, sourced locally and overseas, this enables us to offer a single source product, processing and solutions offering.





# Proud suppliers of:

Colorbond®

Zincalume®

Galvabond®

Zincanneal®

Galvaspan®

Truecore®

Xlerplate®

TruSpec®

RedCor®

Bisalloy

LYSAGHT

METALCORP  
Everything in Steel

Orrcon  
Steel

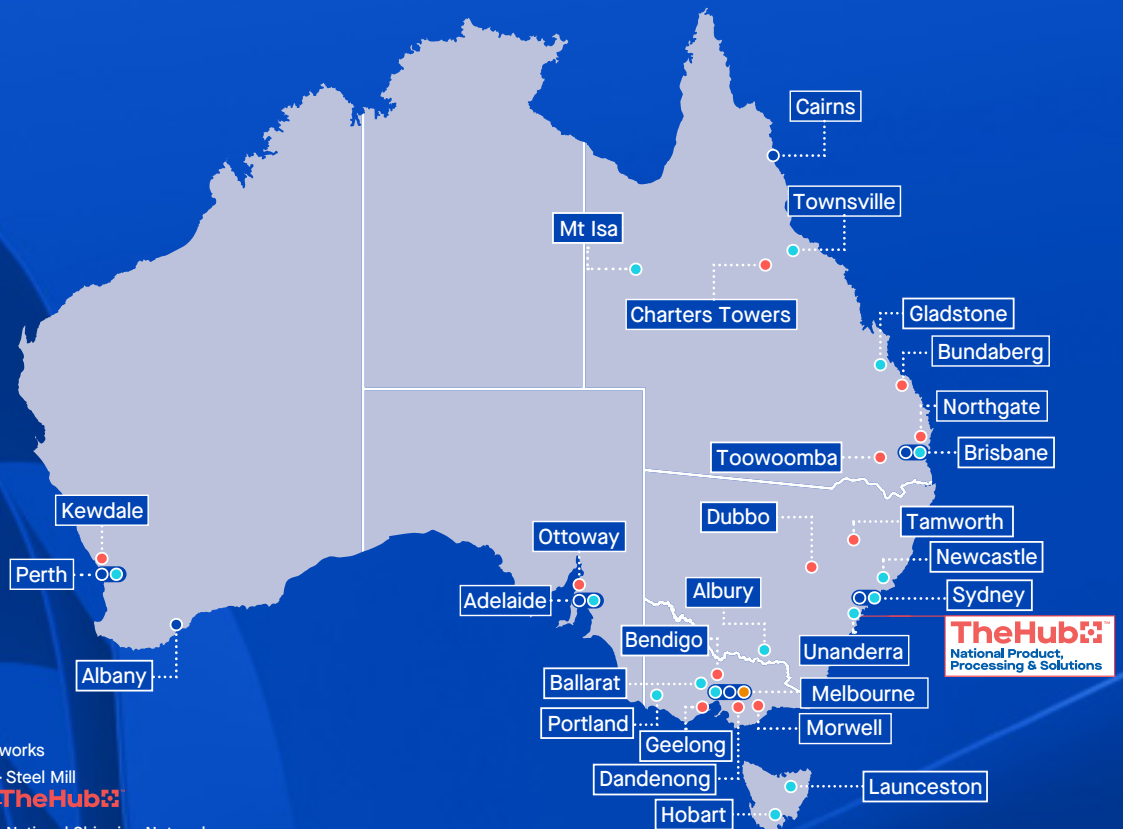
Aluminium

## National branch network

**Distribution network:**

- BlueScope Distribution
- Orrcon Steel Distribution
- Metalcorp
- Impact Steel

BlueScope Distribution  
Orrcon Steel Distribution  
METALCORP  
IMPACT STEEL



BlueScope Distribution, Orrcon Steel Distribution, Metalcorp and Impact Steel form the Distribution division of BlueScope in Australia. Collectively, our national network of 32 sites provide our customers with access to steel and aluminium products Australia-wide.

### For more information

[thehubsales@bluescope.com](mailto:thehubsales@bluescope.com)  
[bluescopedistribution.com.au](http://bluescopedistribution.com.au)



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