



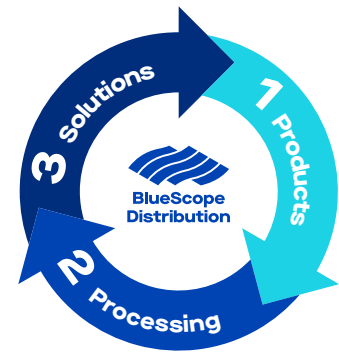
**TheHub**™  
National Product,  
Processing & Solutions

  
**BlueScope**  
Distribution

Supporting  
our customers  
to grow by  
providing them  
with efficiencies  
and ready to  
manufacture  
components,  
on time and to  
specification.

**Multi-functional  
processing line  
capabilities**

# Quality steel and aluminium solutions



## The National Product, Processing & Solutions Hub is BlueScope Distribution's new capability.

It enables us to provide our customers with an end to end project management system of complex steel processing, component manufacturing and steel kits ready for product assembly. Our National Product, Processing and Solutions Hub supports customers with highly complex or significant projects in infrastructure, defence, renewable energy, mining oil and gas and transport.

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 or oxy processed and include:
  - Complex Beveling (K Bevels, Y Bevels, Variable Bevels)
  - Drilling, Tapping, Etching, Notching
  - Blasting, Priming, Galvanising, Bending & Rolling

- 2x 18.5m bed x 3.5m wide with up to 40m of plasma 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.

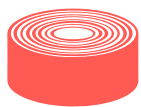
### End-to-end management of complex steel processing and supply

- 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



# Processing capabilities

**The National Product, Processing & Solutions Hub provides customers with state of the art steel processing capability including:**

Weld prep ready components which are plasma or oxy processed and include:

- » Complex bevelling (K bevels, Y bevels, variable bevels)
- » Drilling
- » Tapping
- » Etching
- » Notching
- » Blasting
- » Priming
- » Galvanising
- » Bending
- » Rolling
- » 2x 18.5m bed x 3.5m wide with up to 40m of plasma processing capability

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

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

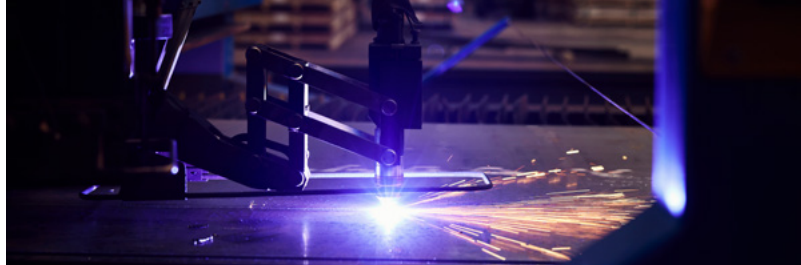
This allows us to provide unique, optimal solutions across a range of thicknesses up to 150mm while maintaining cut tolerances to meet or exceed ISO9013 standards.

Our market leading integrated laser scanning and auto-calibration capability allows for this to be achieved while maximising yield performance for our customers.

**TheHub has operational capability to deliver on a range of high-end product solutions including:**

- » Complex variable bevels
- » Counter bore
- » Drilling and tapping capabilities rounded off with a variety of marking functionalities including etching, laser and inkjet marking.

**For more information about our full range of steel processing capabilities please speak to your account manager.**



## Etching

For product identification or weld attachment outlines



## Power hole thermal cut

Minimises dint/ding defects – clean cut

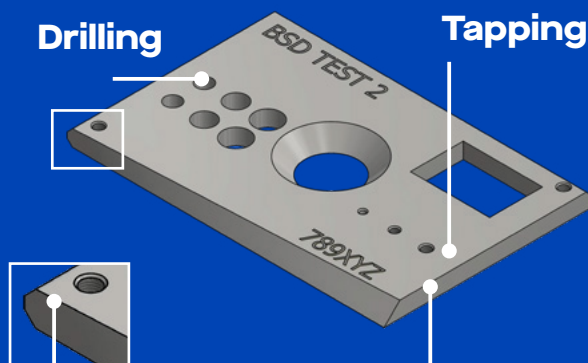
## Blast and prime

Available on request

## Laser or inkjet printing

For product identification

## Drilling



## Tapping

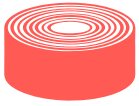
## Variety of bevel profiles

Constant angle bevel, complex variable bevel, K bevel

## Constant angle bevel

Industry standard bevel





# Operational capability

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

Our investment in a 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 and Solutions Hub also offer a range of high-end products solutions, including complex variable bevels, drilling and tapping capabilities rounded off with a variety of marking functionalities including etching, laser and inkjet marking.



MicroStep plasma, plate processing technology

## **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 and Heat Affected Zone (HAZ) minimised.

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 19.5m 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.

**Additional services are available on request.**

# Technical details

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

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	<b>Plasma</b> ≤ 25mm: ±50° >25mm: ±45°		<b>Plasma</b> Surface Quality: Class 2 Dimensional Tolerance: Class 2
Bevel cut variable angle	Plasma or Oxy	<b>Oxy</b> ≤ 60mm: ±60° >60mm: ±50°		
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			Surface Quality: Class 2 Dimensional Tolerance: Class 1
Tapped hole	Tap	M4 to M33		
Marking - laser	Laser			
Marking - Inkjet	Inkjet			

\* Surface Quality as per ISO9013 Clause 7

\*\* Dimensional tolerance as per ISO9013 Clause 8

## 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.

# We are BlueScope Distribution

**We are BlueScope Distribution, a leading steel and aluminium distributor and solutions provider.**

With a national network of 16 branches across metro locations and major regional towns, we are committed to supplying our customers with quality products, associated processing and project management solutions. Our customers experience the ease of dealing with a single-source supplier and the efficiency of doing business with one point of contact, providing the understanding and knowhow that saves time and money.

BlueScope Distribution services a wide range of customers across a large number of industries across Australia and we deliver a diverse range of products, processing and solutions. Our service offer enables our customers to find the freedom to do what they do best. Proudly Australian, our strength is in our name.

The **National Product Processing and Solutions Hub** is a specialised capability of BlueScope Distribution which delivers world-class plate processing and solutions to customers servicing key industries across Australia.

Our highly experienced team offers technical expertise and comprehensive national project management capability to help our customers deliver projects on time and to specification. To find out more visit [bluescopedistribution.com.au](https://bluescopedistribution.com.au)

## Our locations

### Perth, WA

- Shearing Capabilities
- Router Capabilities

### Melbourne, VIC

- Slitting Capabilities
- Shearing Capabilities
- Plasma Capabilities
- Oxy Capabilities
- Router Capabilities
- Protection Film Application Capabilities

### Brisbane, QLD

- Slitting Capabilities
- Shearing Capabilities
- Router Capabilities
- Plasma Capabilities
- Oxy Capabilities

### Townsville, QLD

- Plasma Capabilities
- Oxy Capabilities
- Beamline Capabilities
- Bandsaw Capabilities

### Sydney, NSW

- Slitting Capabilities
- Shearing Capabilities
- Recoiling Capabilities

Map of Unanderra:



## For more information

**e: [thehubsales@bluescope.com](mailto:thehubsales@bluescope.com)**

**[bluescopedistribution.com.au](https://bluescopedistribution.com.au)**

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**BlueScope  
Distribution**

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