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Laser Cutting and Plasma Cutting

Vulcan offers the most comprehensive laser cutting and plasma cutting services for aluminium sheets and plates in New Zealand.



Laser Cutting

Laser cutting reduces the need for post-machining on many engineering jobs, lowering manufacturing costs. The process is accurate and energy-efficient which eliminates or reduces distortion. Our large-format capacity optimizes sheet usage and welding time which offers considerable cost-savings. Multiple items can be nested on fewer sheets, allowing for improved efficiency and faster speed of delivery.

Laser cutting delivers superior precision and edge quality compared to traditional methods, allowing intricate shapes to be cut with ease.

- Large bed capacity (3,000 mm x 6,000 mm)
- Scratch-free finish is typically available on one side only, due to the nature of the metal bed used for nesting the plates.
- High accuracy, precision cutting
- Repeatability – Intricate designs with slots, holes, angles, or detailed patterns can be consistently reproduced to exact specifications.
- Ideal for complicated shapes
- CAD/CAM component nesting for optimal material utilization
- Laser etching can be added to components to enhance customer efficiency, such as illustrating folding lines, part numbers, critical information etc.

Thickness	Smallest Ø hole
25.0mm	11.0mm
20.0mm	9.0mm
16.0mm	4.5mm
12.0mm	3.75mm
10.0mm	2.5mm
8.0mm	2.0mm
6.0mm	1.5mm
5.0mm	1.25mm
4.0mm	1.0mm
3.0mm	0.75mm
2.0mm	0.5mm



Plasma Cutting

- Hypertherm high definition plasma cutting machine
- 76mm max. cutting thickness
- Large bed capacity (3,000 x 6,800)
- C.N.C Operated
- Underwater cutting for less heat distortion
- During the plasma cutting process, a chamfered cut is created thus allowances need to be made for parts that need additional machining.
- Machining allowances need to be CLEARLY stated on placement of order
- In-house edge deburring service is provided.

Thickness	Smallest Ø hole	Rec. machining allowance
76.0mm	120.0mm	15.0mm
65.0mm	120.0mm	15.0mm
50.0mm	100.0mm	10.0mm
40.0mm	75.0mm	10.0mm
32.0mm	55.0mm	7.0mm
25.0mm	45.0mm	6.0mm
20.0mm	45.0mm	6.0mm
16.0mm	35.0mm	6.0mm
12.0mm	25.0mm	5.0mm
10.0mm	25.0mm	5.0mm
8.0mm	25.0mm	5.0mm

Coil Slitting and Cut-to-Length Service

Vulcan offers coil slitting and cut-to-length services to cater to our customer’s individual requirements.



To optimize your productivity and reduce waste and cost, we offer a full range of coil processing services including in house state of the art slitting, precision cut to length, and also a mini slitting and specialized blanking and service to give you more options for your production requirements.

Imperial (ft)	Metric (mm)
8 x 3	2438 x 0915
8 x 4	2438 x 1219
10 x 3	3048 x 0915
10 x 4	3048 x 1219
10 x 5	3048 x 1524
12 x 3	3658 x 0915
12 x 4	3658 x 1219

Gauge No.	(mm)
10	3.00
12	2.50
14	2.00
16	1.50
18	1.20
20	0.90
22	0.70
24	0.55
26	0.45

