

COMPANY PROFILE



 **LaserTek**
PROFILES LTD

www.lasertek.co.nz

LASERTEK PROFILES

LaserTek Profiles Ltd gives you big volume production, coupled with exacting attention to detail and thorough customer service in steel processing.

We bring many years in the industry to our operation, and are proud to deliver quality processed metal components to suit your manufacturing processes.

We have invested in the latest technology for cutting and forming along with our industry specific lean manufacturing systems. We have an automated customer update system to keep in communication with you from quotes to ordering, through processing and shipping thus allowing you the freedom to plan your operations with confidence.

Our aim is to provide a 4-5 day turnaround for most standard jobs. We also cater for urgent needs with an Express service for our account holders ensuring your needs are met in a timeframe that suits your needs.

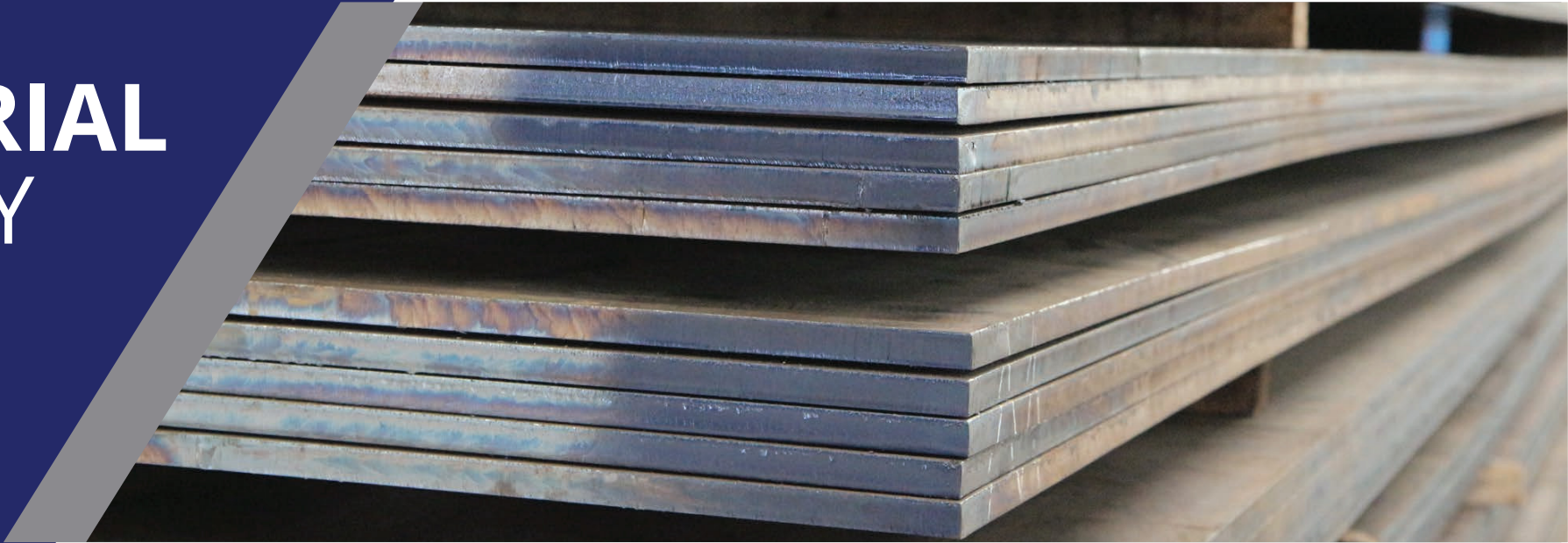
When it comes to the development and processing of steel components, we work with you to ensure quality results, value for your money and your peace of mind.

Working with LaserTek Profiles Ltd is more than a business transaction – it's the beginning of a business partnership. Call us today!



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MATERIAL SUPPLY



LaserTek Profiles has over 1,000 ton of material on hand at all times. We offer a range of carbon steel, stainless steel and aluminium plate and sheet to meet your needs.

Supply arrangements with our trading partners mean that we offer product from only the most reputable steel-mills at competitive rates.

Full tractability and certification is available for all material. Where required for pressure vessel and marine applications third party inspection/testing is offered.

We have three gantry cranes of 8 ton or 5 tons, with the dual carriage 8 ton units we have the ability to handle steel plates up to 16 meters long and 15 tons.



CUSTOMER CARE

Dealing with your profile supplier, should be like using a Swiss watch. Service you can rely on, accurate, timely. It just happens with the minimum of fuss. After all, our business is dependent on the success of yours.


We strive to provide a high quality, consistent and reliable service to all customers, from the smallest customer to the largest equipment manufacturer. Getting it right, first time, on time, makes for satisfied customers and a happy team.

Within the LaserTek "engine room" we have a highly advanced ERP (Enterprise Resource Planning) system which means that your requirements are quoted, scheduled, processed, shipped and invoiced on a common platform.

Our ERP enables us to react quickly to ever-changing demands in production. In fact, once you accept our quote, the necessary part files are automatically generated and pre-programmed in our production schedule within a few minutes.

Our quality management system incorporates systematic procedures throughout the production process to ensure a consistent product.

We will be with you through thick and thin to ensure your requirements get the attention they deserve.





Need Profiles Fast? Then LaserTek EXPRESS is for you.

LaserTek EXPRESS is an overnight Express service for those urgent jobs.

At LaserTek we're prepared for those small urgent requirements that come up on a day to day basis. You're the customer and You're the customer and it's your privilege to have special service for those times you need it ! We've set aside time on our schedule every nightshift to complete a certain amount of Express work.



How does it work?

You need to have your order on a LaserTek Express order form to us by 11am for completion by noon the following working day.

We will require one of the following

- Details of repeat order i.e. our reference number (shown on all quotes and picking slips) or your previous order number
- CAD file in dxf or dwg format
- Basic shape ie rectangle or flange

What does it cost?

We have a surcharge per line item, to cover the additional cost of specially setting up for your job. Contact our sales team for details.

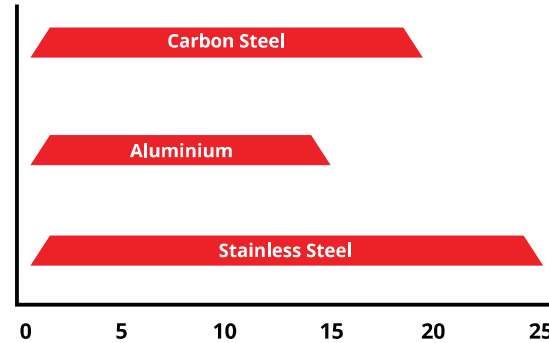
Our course there are a few limitations as follows

- LaserTek EXPRESS is only open to existing LaserTek account holders.
- Max of two EXPRESS orders, per customer, per day
- Upto 4 different grades and thicknesses
- Maximum of \$500 per order unless agreed otherwise.
- Applies to materials carried ex-stock
- Subject to availability. The Express schedule can fill up quickly so its best to order early in the day.
- 2D profiles only. Extra time should be allowed for drilled, 3D or folded parts

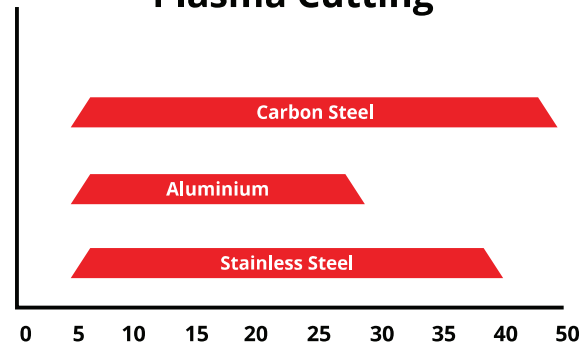
CUTTING PROCESSES



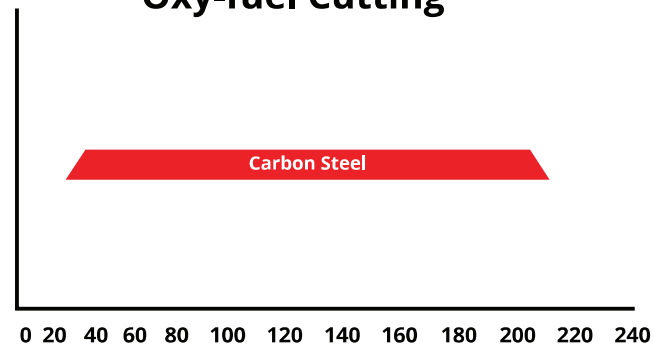
Laser Cutting



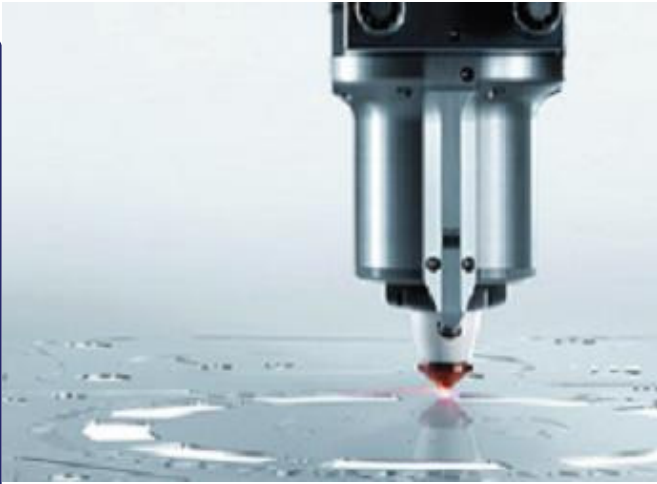
Plasma Cutting



Oxy-fuel Cutting



LASER CUTTING



Being LaserTek you could imagine a significant part of our business is laser cutting... why laser cut ?

If you're wanting profiled components 0.5mm to 20mm (depending on material type) thick cut with razor sharp quality look no further.

Why Laser Cut?

- Highest accuracy
- Best quality
- No further post processing required
- Slot and tab solutions are achievable with laser cutting allowing for faster more accurate set-ups which enable repeatable production for welding operations.

Trumpf Trulaser 5040

Our Trumpf 5000 Series Laser is our workhorse machine. With automated loading and unloading, linear drives and high speed machine dynamics it's our fastest machine for middle thickness production work.

- Maximum Sheet Size 2000mm x 4000mm
- Capacities Carbon Steel 20mm, Stainless Steel 20mm, Aluminium 12mm
- High axis speed (300m/ min) and positioning dynamics
- Lift master automation



LASER CUTTING CON'T



Mitsubishi RX 4020 4.5KW

Our MEL “Mitsubishi Electrical Laser” has a range of new technologies to improve cutting quality and reduce energy consumption. This machine is often used to do the difficult jobs others can't.

- Maximum Sheet Size 2000mm x 4000mm
- Capacities Carbon Steel 20mm, Stainless Steel 20mm, Aluminium 16mm
- Highest quality cutting in thicker carbon steel
- Bright line edge technology for stainless steel

Bystronic Bystar L 4025-65 6KW

Our Bystronic Bystar L Laser Machine offers one of the largest formats for laser cutting. With high power Co2 it's an all rounder for those jobs that others have to pass on.

- Maximum Sheet Size 2500mm x 6500mm
- Capacities Carbon Steel 20mm, Stainless Steel 25mm, Aluminium 16mm
- Capability to cut large parts with high tolerance.
- By-Loader Automation



HIGH DEFINITION PLASMA CUTTING

We offer high quality CNC plasma cutting using our three high definition plasma cutting machines, with KALIBURN Spirit 275A and 400A power sources.

A maximum cutting area of some 5m x 27m means that we are able to load no less than 8 sheets of 2.4m x 6.0m at any one time for increased productivity.

Plasma Capabilities :

- Output 275 Amps or 400 Amps
- Maximum cut area 5,000mm x 27,000mm
- Maximum Thickness 65mm/ 80mm Carbon steel, 32mm/ 50mm Stainless steel
- Production Thickness 32mm/ 50mm
- Equipped with the latest technology which improves hole and edge quality, especially on material 16mm and above





OXY-FUEL CUTTING

Our CNC Oxy-Fuel cutting machines are equipped with four cutting heads and has the ability to cut parts up to 8m long and 200mm thick.

The Oxy-fuel cutting machine is programmed by our CAM software which incorporates the latest common line cutting and bubble piercing techniques to ensure cost effective nesting and cutting of heavy plate.

Oxy-Fuel Capabilities :

- Maximum Sheet Size - 3000mm x 8000mm
- Maximum Thickness - 200mm
- 4 Harris Oxy-Propane cutting torches
- Motorised piercing for heavy plate cutting



PRECISION BENDING

We have three CNC Press-Brake machines for the ultimate precision in bending profiled components.

Trumpf Truma Bend V85S 7 axis CNC

- Maximum tonnage 85 ton
- Bending length 2500mm x 6mm mild steel,
- Distance between frames 2290mm

DURMA AD-S 30320 7 Axis CNC

- Maximum tonnage 320 ton
- Bending length 3000mm x 12mm mild steel, Distance between frames 2400mm
- Throat depth 410mm

DYE 300 Ton 5 Axis CNC

- Maximum tonnage 300 ton
- Bending length 4300mm, distance between frames 3700mm
- Throat depth 410mm

Press brake capability of 800 Ton x 8 meter offered via Sub Contractor



SECONDARY PROCESSES

We offer an extensive range of processes including

- Drilling to 32mm Diameter
- Tapping M24
- Bevelling Single and double bevels to 60 degrees x 70mm thickness

Out Sourced

- Over Sized drilling & tapping
- Counter boring
- Machining
- Zinc Electroplating
- Hot Dip Galvanising
- Powder Coating



TUBE LASER CUTTING

3D Tube Laser cutting offers you the freedom to design new 3D structures that would not be possible using traditional methods.

3D Laser Capabilities










The Trumpf 5000 is able to cut any square or round of tube or pipe or other hollow sections that will fit inside a 152mm area.

- Minimum size of 20mm OD (round or square)
- Maximum wall thickness for material
- Mild Steel 6.4mm
- Stainless Steel 5.0mm
- Aluminium 4.0mm
- Length of material can be up to 6.5m using the automatic loader.
- Maximum of 7.7m long can be manually loaded.

The Trumpf 5000 is operated by our partner company ES3.



CARBON STEEL SHEET & PLATE

GRADE	COLOR CODE	THICKNESS RANGE	YS TYPICAL	TS TYPICAL	HARDNESS TYP	SPECIFICATION	USE APPLICATIONS
G250		1.2mm to 200mm	260 MPa	420 to 500 MPa	120 to 160 BHN	AS1594:HA250 NZS3678:250	General purpose steel plates typically used for furniture, machinery and other general uses. This grade is becoming less common 6mm and above.
G300		6mm to 40mm	320 MPa	440 to 520 MPa	130 to 170 BHN	AS1594:HA300 AS3678:300	General purpose structural steel plates typically used for machinery, construction of buildings and other general uses. In the 6mm to 32mm range most steel is provided to this as a minimum.
G350		3mm to 200mm	360 MPa	470 to 540 MPa	140 to 180 BHN	AS1594:HA350 AS3678:350	Structural steel plates typically used for the constructions of buildings, bridges, transport trailers and a variety of structures.
G350 L15		10mm to 150mm	360 MPa	470 to 540 MPa	140 to 180 BHN	AS3678:350 L15	Structural steel plates typically used for the constructions of cool-store buildings, bridges and a variety of structures which are exposed to low temperatures tested to minus 15degc.
G450		12mm to 20mm	450 MPa	550 to 610 MPa	165 to 190 BHN	AS3678:450	High strength structural steel plate typically used for transport or forestry equipment. An ideal choice where the strength of a quenched and tempered plate is not needed.
CORTEN		2.5mm to 10mm	380 MPa	530 to 580 MPa	140 to 180 BHN	AS1594:HW350 JIS G3114	Weather resistant structural steel plates used for applications where a corrosion is an issue or if a weathered appearance is desired.
HTTM		3mm to 8mm	700 MPa	750 to 950 MPa	240 to 260 BHN	EN 10149-2 S700MC	High Strength thermomechanically rolled plate typically used for transport equipment. This plate offers improved workability as opposed to a quenched and tempered plate of the same nominal yield strength.
HT80		6mm to 100mm	690 MPa	780 to 930 MPa	240 to 260 BHN	JIS G3128 SHY685 AS3597 Grade 700 BISALLOY 80 JFE HI-TEN 780S/780LE NSSMC WEL-TEN 780E	High strength quenched and tempered plate typically used for forestry equipment, transport equipment or any application where reduced weight and improved strength is a priority.
A450		6mm to 50mm	1100 MPa	1400 to 1500 MPa	420 to 470 BHN	NSSMC ABREX 450, JFE EH450, BIS 450	Wear resistant steel plate typically used for applications with high sliding wear and moderate impact properties.
W450		10mm to 16mm	1100 MPa	1400 to 1500 MPa	440 to 470 BHN	Wearalloy 450	Wear resistant steel plate typically used for applications with high sliding wear and moderate impact properties.
460NR		6mm to 50mm	275 MPa	460 to 580 MPa	140 to 180 BHN	AS1548-PT460NR	Specially certified plate for pressure vessel applications. Usually supplied in normalised condition.
G250 TREAD PLATE		3mm to 10mm	260 MPa	360 to 450 MPa	120 to 150 BHN	AS1594:HA250	Floor plate variant of G250, typically used for platforms or walkways.

STAINLESS STEEL SHEET & PLATE

GRADE	FINISH	THICKNESS RANGE	YS TYPICAL	TS TYPICAL	HARDNESS TYP	SPECIFICATION	USE APPLICATIONS
STAINLESS 304 STAINLESS 304 L	2B 2B	0.55mm to 4mm 5mm to 6mm	> 205 MPa	> 515 MPa	180 to 200 BHN	ASTM A240M JIS SUS 304 JIS SUS 304L	Grade 304 is the standard austenitic stainless; it is the most versatile and most widely used stainless steel. It has excellent forming and welding characteristics.
STAINLESS 304 L	No.1	8mm to 25mm	> 170 MPa	> 485 MPa	180 to 200 BHN	JIS SUS 304L	Grade 304L, the low carbon version of 304, does not require post-weld annealing and so is extensively used in heavy gauge components (about 5mm and over).
STAINLESS 316 STAINLESS 316 L	2B 2B	0.55mm to 3mm 4mm to 6mm	> 205 MPa	> 515 MPa	220 to 220 BHN	ASTM A240M JIS SUS 316 JIS SUS 316L	Grade 316 is the standard molybdenum-bearing austenitic grade, second stainless steel in importance to 304. The molybdenum gives 316 better overall corrosion resistant properties than Grade 304, particularly higher resistance to pitting and crevice corrosion in chloride environments.
STAINLESS 316 L	No. 1	8mm to 25mm	> 170 MPa	> 485 MPa	220 to 240 BHN	JIS SUS 316L	Grade 316L, the low carbon version of 316, is highly resistant to sensitisation and is extensively used in heavy gauge welded components (about 5mm and over)
STAINLESS 2205	No. 1	On request	> 450 MPa	> 620 MPa	260 to 300 BHN	JIS SUS 32913L SS 2377	Grade 2205 is the most widely used duplex stainless steel grade. It finds applications due to both excellent corrosion resistance and high strength.
STAINLESS 3CR12	No. 1	On request	> 280 MPa	> 450 MPa	160 to 180 BHN		This "utility stainless steel" has been developed as a readily fabricated, low cost grade, exhibiting good resistance to wet abrasion and mildly corrosive environments
STAINLESS 253MA			> 310 MPa	> 600 MPa	220 to 250 MPa	SS 2368	Grade 253MA is a grade combining excellent service properties at high temperatures with ease of fabrication. It resists oxidation at temperatures up to 1150°C.
STAINLESS 304 FLOOR PLATE	Tread Pattern	3.5mm to 4.5mm	> 205 MPa	> 515 MPa	180 to 200 BHN	ASTM 240M 304	Floor plate variant of Grade 304, typically used for platforms or walkways.
STAINLESS 316 FLOOR PLATE	Tread Pattern	3.5mm to 4.5mm	> 205 MPa	> 515 MPa	220 to 220 BHN	ASTM 240M 316	Floor plate variant of Grade 316, typically used for platforms or walkways in the food industry or where corrosion is an issue.

ALUMINIUM SHEET & PLATE

GRADE	FINISH	THICKNESS RANGE	YS TYPICAL	TS TYPICAL	SPECIFICATION	USE APPLICATIONS
5052	H32 / H34	1.2mm to 6mm	> 160 MPa	215 to 285 MPa	AlMg 4.5Mn	Aluminium alloy 5052 in H32 temper has very good corrosion resistance to seawater and marine and industrial atmosphere. It also has very good weldability and good cold formability. Where excellent workability is desirable 5052 should be chosen over 5083 alloy.
5083	H321 / H112	8mm to 16mm	> 215 MPa	300 to 380 MPa	AlMg 2.5	Alloy 5083 is the highest strength of any of the 5000 series alloys. Alloy 5083 is best known as a plate for ship building.
5052 TREAD PLATE	H114 / H32	1.6mm to 8mm	> 130 MPa	210 to 260 MPa	AlMg 2.5	Tread plate option available in 5052 alloy, typically used for platforms or walkways.

OTHER SHEET

GRADE	FINISH	THICKNESS RANGE	YS TYPICAL	TS TYPICAL	SPECIFICATION	USE APPLICATIONS
EG	Electro – galvanised	0.55mm to 3mm	> 250 MPa	> 270 MPa	JIS G3313 SECC - SC	Electro galvanised is a cold rolled electrolytic zinc-coated commercial drawing steel for internal applications capable of moderate forming and pressing with a surface suitable for a high quality paint finish., often without priming (except in external applications) Typical uses include switch boards, office and hospital furniture, light fittings and general press work.
GALV	Galvanised	0.55mm to 3mm	>250 MPa	> 320 MPa	AS 1397 : 2001 6250 JIS G3302 SGCC	GALV steel is a hot-dipped zinc-coated structural steel with a spangled surface and guaranteed minimum yield strength of 250MPa. Typical uses include steel building construction.
GALV HT	Galvanised	2mm to 3mm	> 335 MPa	> 440 MPa	JIS G3302 SEH440	GALV HT G450 steel is a hot-dipped zinc-coated structural steel with a spangled surface and guaranteed minimum yield strength of 450MPa. Typical uses include steel building construction.

CUSTOMER FEEDBACK SYSTEM

We realise how important it is for you to have reliable, clear, concise communication from your profile supplier.

That's why we have an automated customer update system. Once your account and email is registered with us you receive automated emails for.

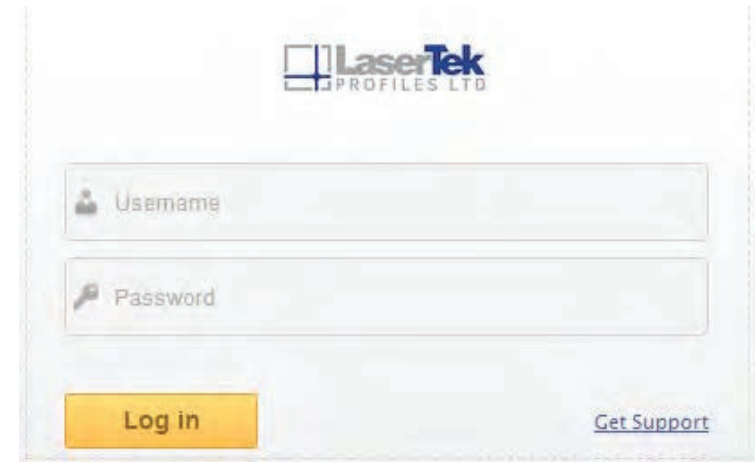
- Order confirmation with delivery date.
- Order shipped confirmation with consignment details.

Customer Portal

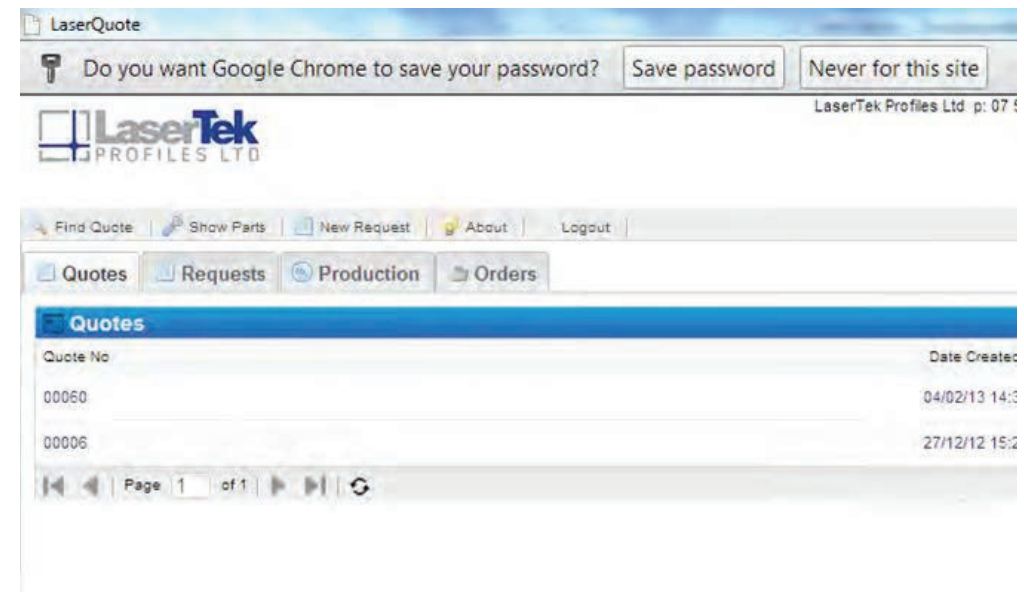
We can also provide you with a user name and password to access our customer portal. This portal gives you access to a customer dashboard of all your orders, quotations.

Here you can place new orders, create repeats of old orders, request quotations and upload CAD files.

You are able to track the status of your order as it goes through production.



The image shows a login form for LaserTek Profiles Ltd. At the top is the company logo. Below it are two input fields: 'Username' with a person icon and 'Password' with a key icon. A yellow 'Log in' button is positioned below the password field. To the right of the button is a link that says 'Get Support'.



The image shows a screenshot of the LaserQuote customer portal. At the top, there's a browser notification bar asking to save the password. Below that is the LaserTek Profiles Ltd logo. A navigation bar contains links: 'Find Quote', 'Show Parts', 'New Request', 'About', and 'Logout'. Below the navigation bar are tabs for 'Quotes', 'Requests', 'Production', and 'Orders'. The 'Quotes' tab is selected, showing a table with columns 'Quote No' and 'Date Created'. The table lists two quotes: 00050 (dated 04/02/13 14:00) and 00006 (dated 27/12/12 15:00). At the bottom, there's a pagination bar showing 'Page 1 of 1'.

Quote No	Date Created
00050	04/02/13 14:00
00006	27/12/12 15:00

OPERATIONS MANAGER

Rick Clare

✉ rick@lasertek.co.nz

GENERAL MANAGER

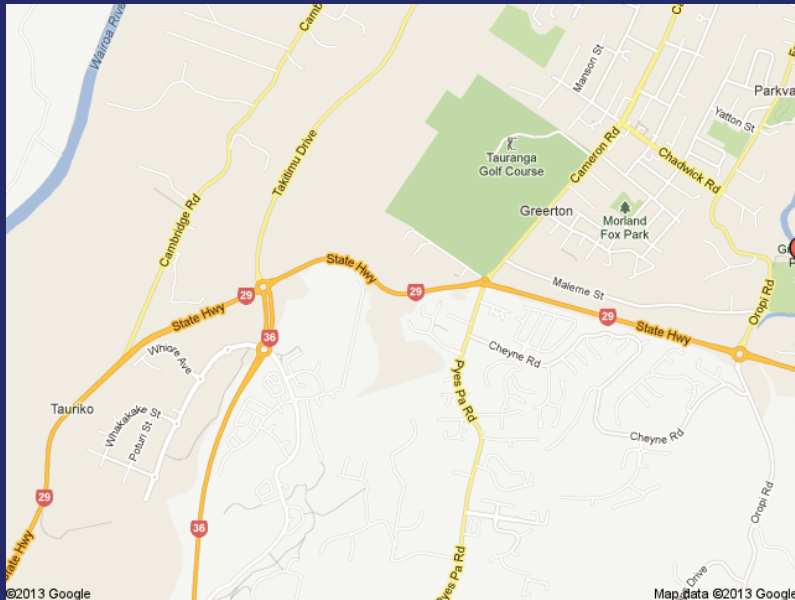
Tim Moxham

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