About us

Victor Machining is the latest addition to the Victor Hydraulics operation.

Established over 60 years ago, Victor Hydraulics is the principal manufacturer of hydraulic cylinders in New Zealand and a key supplier to the New Zealand, Australian and global markets.

To ensure we remain at the forefront of our industry, we are firmly committed to a programme of continual product and process improvement. As a result, we have achieved a number of international benchmark standards.

We are currently the only hydraulic cylinder manufacturer in New Zealand to achieve ISO 9001 accreditation for the design, manufacture and supply of hydraulic cylinders.

With a proud health and safety record, we have also achieved AS/NZS 4801 and BS OHSAS 18001 for the management of Occupational Health and Safety for the design, manufacture and supply of hydraulic cylinders.

As well as significant plant development, we invest strongly in our staff, including multi-discipline training, health and safety, and professional development. Located in Christchurch, Victor employs over 80 staff with diverse skill sets across two manufacturing sites.

We believe in setting the benchmark high and then aiming even higher. This enables us to offer a greater range of services and support, while maintaining the same high level of service, and consistency of quality and supply.

Building on a 60-year tradition of innovation, quality and delivery.
**High precision horizontal boring**

Victor is able to offer a significant range of machining options, with the addition of a HBM4T horizontal borer.

Traditionally, Victor specialised in the design and manufacture of premium hydraulic cylinders, predominantly for the primary sector. With the addition of a purpose-built machining facility, we are now able to respond to high market demand from companies across a range of industries looking to outsource production requirements to a trusted name in manufacturing.

The HBM4T horizontal borer represents the foremost technology available for high precision boring. With a fully integrated modular design, this machine can be configured to deliver customised manufacturing for one-off projects, as well as meeting repeatability requirements for large production runs.

Its large size and heavy duty construction makes it ideal for machining large and heavy components, across a wide range of materials, with high accuracy and efficiency.

As well as horizontal boring, Victor is able to deliver a comprehensive range of machining, including all other machining services from our dedicated machining facility.

**Capability**

- Weighting 40 tonne, with a table size of 1800mm x 1600mm, the HBM4T is the ideal machine for machining of large fabricated, castings and other work pieces.
- A 5-tone table capacity allows many machining options for the efficient processing of heavy components, while maintaining close tolerances.
- A generous travel envelope and a travel and diameter at 500mm ensure rigid boring. Its machining is also possible with a HBM 24PB control and continuous rotary table at 130 degrees.
- spindle speed is a maximum 3000rpm, with 300rpm running through a 5-speed gearbox.
- The HBM4T horizontal borer also has 70ton through spindle coolant to enable efficient drilling depths of up to 1m.
- Lower scales in the X/YAZ axes ensure high accuracy and repeatability. To further ensure an accurate end product the machine is fitted with a touch probe in both work piece and spindle axes, whilst the component is still on the machine.
- Rotary table travel (x): 3000mm
- Headstock vertical travel (y): 2000mm
- Column longitudinal travel (z): 1400mm
- Spindle quill stroke (W): 700mm to 130mm Ø
- Spindle quill stroke

Victor, we’re setting the industry standards through innovative design and technology, internationally recognised quality and customised service delivery.

With the support of our_flagship production facility, we are able to offer additional finishing services. To ensure a superior end product, we can provide a high quality paint finish through the recent installation of an automated paint mixing room, spray booth and drying oven for the electrostatic application of two pot epoxy paint finishes.

**Machining services**

Our ability to deliver high tech large scale horizontal boring, combined with a comprehensive range of component and specialist machining services ensures its support in number of sectors and applications.

This includes aerospace, agriculture, construction, container handling, power generation, general engineering, forestry, marine, materials handling, mining, transportation, oil and gas, and water management.

The cutting edge technology is supported by highly trained and experienced machinists, as well as an expert in-house design and engineering team. Working alongside your product and development team, we can build an understanding of key areas of performance and fine tune these can be significantly improved through the development of technology.

With full in-house analytical capacity, we can provide 3D modeling, Finite element analysis, CAD and CAM software, stress and fatigue life predictions. In addition, we specialise in mechanical product design and documentation – including purchase specifications and maintenance specifications.

From quality processing of specialist components, to the design and production of a complete customised solution for your business, we can deliver a level of service that suits your supply chain.

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From quality processing of specialist components, to the design and production of a complete customised solution for your business, we can deliver a level of service that suits your supply chain.
With the support of our flagship production facility, we are able to offer additional finishing services. To ensure a superior end product, we can provide a high quality paint finish through the recent installation of an automated paint mixing room, spray booth and drying oven for the electrostatic application of two pot epoxy paint finishes.

Victor is able to offer a significant range of machining options, with the addition of a HBM4T horizontal borer. Traditionally, Victor specialised in the design and manufacture of premium hydraulic cylinders, predominantly for the primary sector. With the addition of a purpose-built machining facility, we are now able to respond to high market demand from companies across a range of industries looking to outsource production requirements to a trusted name in manufacturing.

The HBM4T horizontal borer represents the foremost technology available for high precision boring. With a fully integrated modular design, this machine can be configured to deliver customised manufacturing for one-off projects, as well as meeting repeatability requirements for large production runs.

Its large size and heavy duty construction makes it ideal for machining medium and large sized components, across a wide range of materials, with high accuracy and efficiency.

As well as horizontal boring, Victor is able to deliver a comprehensive range of machining options, including deep hole drilling, tube bending, boring and general machining services from our dedicated machining facility.

**Capability**

- **Weight:** 40 tonne, with a table size of 1800mm x 1600mm
- **Spindle:** The HBM4T is the ideal machine for machining of large cylinders, castings and other work pieces.
- **A 4th or 5th axis table capacity allows many machining options for the efficient processing of new components, while maintaining the same accuracy level as a 5th axis machine.**
- **A generous travel envelope and a rotary axis diameter at 150mm ensure rigid boring.** It also machining is also possible with the fanuc 32iMB control and continuous rotary table at 100 degrees.
- **Spindle speed is a maximum 3000rpm, with 30bar running through a four-pipe system.**
- **The HBM4T horizontal borer also has 70 bar through spindle coolant to enable efficient drilling depths of up to 1m.**
- **Lower scales in the X/Y axis ensure high accuracy and repeatability. To further ensure accuracy and product the machine is fitted with a laser etched X/Y axis work piece table.**
- **The engine work piece measurement while the component is still on the machine.**
- **Rotary table travel (X): 3000mm**
- **Headstock vertical travel (Y): 2000mm**
- **Column longitudinal travel (Z): 1400mm**
- **Spindle quill stroke (W): 700mm to 130mm Ø**
- **Spindle extension sleeve**

**Machining services**

Our ability to deliver high tech large scale horizontal boring, combined with a comprehensive range of component and specialist machining services enables us to support a number of sectors and applications.

The includes aerospace, agriculture, construction, container handling, power generation, general engineering, forestry marine, materials handling, mining, transportation, rental and water management.

The cutting edge technology is supported by highly trained and experienced machinists, as well as an expertly trained design and engineering team. Working alongside your product and development team, we can build an understanding of key areas of performance and how these can be significantly improved through the development of technology.

With full in-house analytical capacity, we can provide 3D modelling, finite element analysis, numerical CAE and CFD utilizing analytical software, and stress and fatigue life prediction. In addition, we specialise in mechanical product design and analysis – including purchase specifications and demonstration specials.

From quality processing of specialist components, to the design and production of a complete customised solution for your business, we are able to deliver a level of service that suits your supply chain.

At Victor, we’re setting the industry standards through innovative design and technology, internationally recognised quality and customised service delivery.
High precision horizontal boring

Victor is able to offer a significant range of machining options, with the addition of a HBM4T horizontal borer. Traditionally, Victor specialised in the design and manufacture of premium hydraulic cylinders, predominantly for the primary sector. With the addition of a purpose-built machining facility, we are now able to expand to other industries and work pieces across a range of industries looking to outsource production requirements to a trusted name in manufacturing.

The HBM4T horizontal borer represents the foremost technology available for high precision boring. With a fully integrated modular design, this machine can be configured to deliver customised manufacturing for one-off projects, as well as meeting repeatability requirements for large production runs.

In large size and heavy duty construction machine to suit for machining sizable and large sized components, across a wide range of materials, with high accuracy and efficiency. As well as horizontal boring, Victor is able to deliver a comprehensive range of machining services, providing a high quality and efficient range of finishing services.

With the support of our flagship production facility, we are able to offer additional finishing services. To ensure a superior end product, we can provide high quality finishing through the recent installation of an automated paint mixing room, spray booth and drying oven for the electrostatic application of two pot epoxy paint finishes.

Capability

Weighing 40 tonne, with a table size of 1800mm x 1600mm, the HBM4T is the best suited machine for machining of large fabrications, castings and other work pieces.

A 360° table capacity offers many machining options for the efficient processing of heavy components, while ensuring a consistent angle of cut. A generous travel envelope and a fixed spindle diameter at 130mm ensure rigid boring, as all machining is also possible with the four-axis 240° control and continuous rotary table at 0.001 degrees.

Spindle speed is a maximum 3000RPM, with 390bar running through a four-spindle system.

The HBM4T horizontal borer also has 70bar through spindle coolant to enable efficient drilling depths of up to 1m.

Linear scales in the X/Y/A/Z axes ensure high accuracy and repeatability. To further ensure an accurate end product the machine is fitted with a high-precision X-4000 work piece probe. The encoder work piece measurement while the component is still on the machine.

- Rotary table travel (X): 3000mm
- Vertical travel (Y): 2000mm
- Column longitudinal travel (Z): 1400mm
- Spindle quill stroke (W): 700mm to 130mm Ø
- Spindle extension sleeve

Machining services

Our ability to deliver high tech large scale horizontal boring, combined with a comprehensive range of component and specialist machining services, is supported by a number of sectors and applications.

With our full in-house analytical capacity, we can provide 3D modeling, finite element analysis (FEA), CAM allowing bi-directional software and stress and fatigue life predictions.

In addition, we specialise in mechanical product design and analysis — including purchase specifications and manufacturing specifications — from quality processing of specialist components, to design and production of a complete customized solution for your business, we can offer a high level of repeat to suit your supply chain.
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Established over 60 years ago, Victor Hydraulics is the principal manufacturer of hydraulic cylinders in New Zealand and a key supplier to the New Zealand, Australian and global markets.

To ensure we remain at the forefront of our industry, we are firmly committed to a programme of continual product and process improvement. As part of this commitment, we have achieved a number of international benchmarks and standards.

We were the first manufacturer in New Zealand to achieve the stringent John Deere JDS-G223 quality standard, which champions customer service, design, quality, cost and on-time delivery. We have also achieved key supplier status in John Deere Achieving Excellence Programme, as part of our decade-long partnership with Strickland.

We are currently the only hydraulic cylinder business in New Zealand to achieve ISO 9001 accreditation for the design, manufacture and supply of hydraulic cylinders. With a proud health and safety record, we have also achieved AS/NZS 4801 and BS OHSAS 18001 for the management of Occupational health and safety for manufacture and supply of hydraulic cylinders.

As well as significant plant development, we invest strongly in our staff, including multi-discipline training, health and safety, and professional development. Located in Christchurch, Victor employs over 80 staff with diverse skill sets across two manufacturing sites.

We believe in setting the benchmark high and then aiming even higher. This enables us to offer a greater range of services and support, while ensuring the same high level of service, consistency of quality and supply Victor is known for.

Contact the Victor team to discuss how we can add value to your business.
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Victor is known for:

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Horizontal boring