

Horizontal boring



INNOVATION | QUALITY | 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.

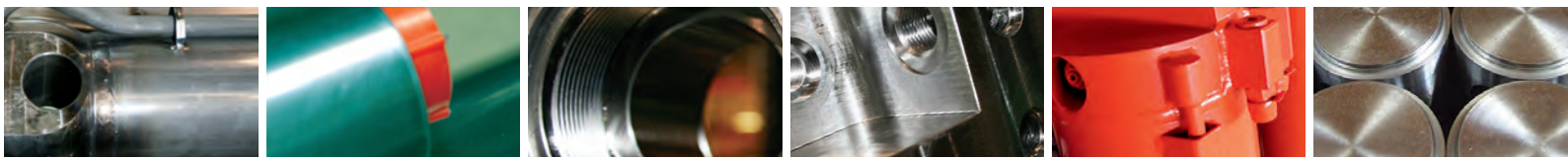
The HBM4T horizontal borer represents the foremost technology available for high precision boring. With a fully integrated modular design, this machine can be configured to deliver customised manufacturing for one-off projects, as well as meeting repeatability requirements for large production runs.

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

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







## Capability

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

A 10-tonne table capacity allows many machining options for the efficient processing of heavy components, while maintaining close tolerances and high quality.

A generous travel envelope and a W-axis quill diameter at 130mm ensure rigid boring. 4-axis machining is also possible with the Fancuc 32iMB control and continuous rotary table at 0.001 degrees.

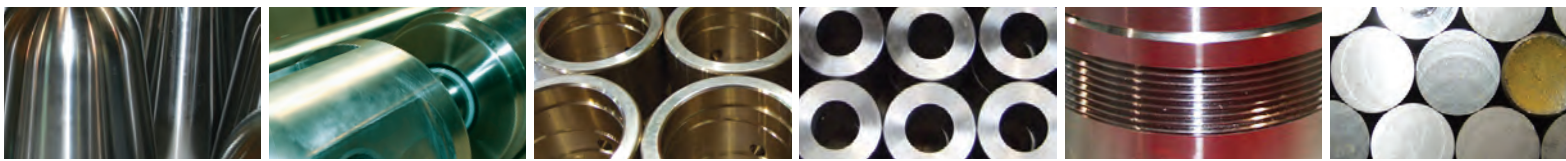
Spindle speed is a maximum 3000RPM, with 30KW running through a two-step gearbox.

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

Linear scales in the XY&Z axis ensure high accuracy and repeatability. To further ensure an accurate end product the machine is fitted with a Renishaw® RMP-60 work piece probe. This enables 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**





**At Victor, we're setting the industry standard through innovative design and technology, internationally recognised quality and customised service delivery.**



## Machining services

Our ability to deliver high-tech large scale horizontal boring, combined with a comprehensive range of component and specialist machining services enable us to support a 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 waste management.

Our 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 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, mathematical CAD and CAM utilising GibbsCAM software, and stress and fatigue life predictions. In addition, we specialise in mechanical product design and analysis, and product 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 work with your team at a level of input 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.



## 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 part of this commitment, we have achieved a number of international benchmark 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 Waratah.

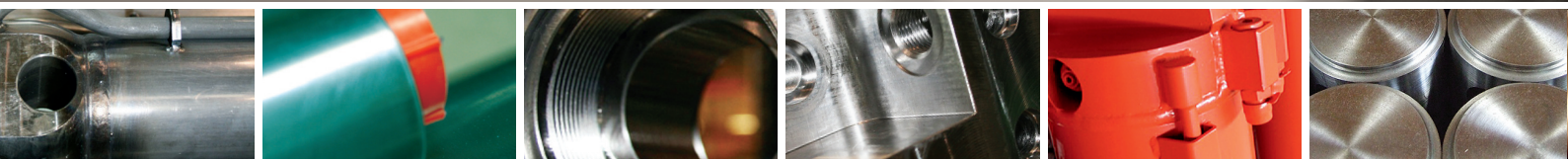
We are currently the only hydraulic cylinder business in Australasia to achieve ISO 9001 accreditation for the design, manufacture and supply of hydraulic cylinders.

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 ensuring the same high level of service, and 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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