

Deep Hole Drilling



INNOVATION | QUALITY | DELIVERY



High technology deep hole drilling

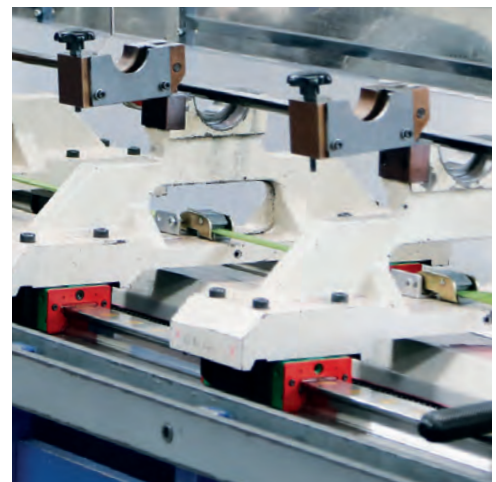


Victor Hydraulics has traditionally been known for the design, manufacture and delivery of high quality hydraulic cylinders to the global market. Recently, we expanded our operations to include diverse machining capability.

Due to high market demand for modern machining and drilling processes, we are now able to offer deep hole drilling services, as well as application-specific customised drilled solutions. The investment in this machinery allows us to ensure our own products are drilled to the highest standards, and provide accurate and cost-effective services to other companies.

The Honge Gundrilling Machine and TIBO BTA Style Drilling Machine enable precision drilling into a range of materials, including steel, stainless steel, aluminium and superalloys.

With highly trained, specialised staff and the latest machine technology, we are now able to provide accurate drilling up to 80mm diameter capacity, and up to 4000mm depth, in a wide range of materials.





Honge Gundrilling Machine XL-4000

The Honge Gundrilling Machine offers the optimal solution for smaller diameters, utilising traditional gundrilling tooling. Providing high pressure cutting oil and 5000 RPM, it is also equipped with Fanuc feed and spindle drives to ensure high productivity.

The workpiece is double chucked, with the added support of a self-centring hydraulic steady rest and a maximum of six moveable drill supports all running on linear guideways. This ensures highly accurate diameter control, with extreme depth-to-diameter ratios, and a high degree of hole straightness. The linear guideways and a moveable drill support also make this machine ideal for extra long workpieces.

With our commitment to safety, we have ensured this machine is fully enclosed and guarded, offering a high degree of operator safety.

- ▶ **Drilling capacity range:** 8mm to 32mm diameter
- ▶ **Drilling depth:** 4000mm
- ▶ **Hole concentricity:** +/- 0.5mm/m

TIBO B80-3000 Deep Hole Drilling Machine

The first of its type to be installed in New Zealand, the TIBO B80-3000 Deep Hole Drilling Machine utilises the BTA drilling process, driving coolant down through the outer casing of the drill and pushing the chips back up through the drill centre.

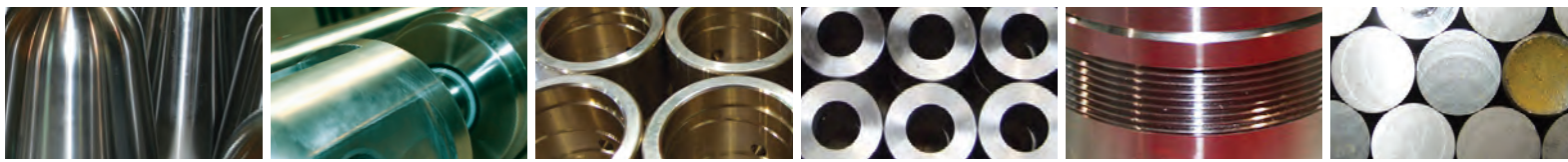
A maximum 28 KW spindle drive and 2500 RPM gives the BTA-style drilling system the power it needs to provide close tolerance holes with high quality finishes. A rotating tool and counter-rotating workpiece also enables straightness tolerances of +/- 0.1mm/m.

- ▶ **BTA drilling capacity:** 18mm to 80mm diameter
- ▶ **Counterboring:** up to 100mm diameter
- ▶ **Maximum drilling depth:** 2610mm, or 3480mm end-to-end



DEEP HOLE DRILLING IS IDEAL FOR

- Through-porting telescopic shafts
- Weight reduction in drive shafts
- Large manifolds
- Transducer cylinder production, including chrome shafting
- Diverse range of sectors.



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



Applications and sectors

Victor is now able to offer precision deep hole drilling to a level of accuracy not available elsewhere in New Zealand.

This enables the Victor team to tailor solutions to fit a range of applications - from power generators within the energy sector, to variable pitch propeller shafts within the marine industry.

Deep hole drilling and machining processes also offer significant benefits to applications such as oil and gas exploration equipment, aerospace equipment, engineering and construction.

Hydraulic cylinders

As the only hydraulic cylinder business in Australasia to be ISO9001 accredited for the design, manufacture and supply of hydraulic cylinders, we believe in setting the benchmark high and then aiming even higher.

Through the establishment of precision deep hole drilling processes, we are now able to provide a much wider spectrum of hydraulic cylinders otherwise not possible within Australasia.

Supported by full in-house analytical capacity and innovative software, this new machining technology enables us to offer much larger scale customised hydraulic cylinder solutions, while ensuring the same high level of service, and consistency of quality and supply, Victor is known for.

From one-off customised cylinders to project-based designs, or an OEM-specific application, we can provide input at a level that meets your company's needs - from concept to product release, or any part of the process.

We also provide a honing service from 38mm to 450mm, up to 4m in length or 8m end-to-end where required.

▶ MACHINING SERVICES



Victor is able to offer a range of deep hole drilling and machining processes to sectors seeking drilling solutions not limited by off-the-shelf raw materials.

The deep hole drills are available to a range of industries looking to outsource drilling requirements. With an expert in-house design and engineering team, and the technical ability and technology to deliver customised, innovative solutions, we can also work with you to customise a drilling or machining solution to fit your next project.



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 better meet the needs of their customers, the company invested significantly in extending their machining capability, including the establishment of two highly specialised deep hole drills.

This new range of specialised services enables Victor to support a more diverse range of sectors, including aerospace, agriculture, construction, container handling, energy, general engineering, marine, mining and transportation industries.

The deep hole drills are currently located in a dedicated purpose-built machining facility in Christchurch, New Zealand, alongside other specialised equipment for large scale boring and tube bending.



Contact the Victor team to discuss how
we can add value to your business.



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