



Tube bending



INNOVATION | QUALITY | DELIVERY



Specialist tube bending



Victor is able to offer high precision tube bending to companies looking to outsource their specialist machining operations. 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 Hanjie HC-380R2 is a high-tech CNC rotary draw tube bender, utilising complex and sophisticated tooling. With cutting edge technology, this machine has the capability to deliver a range of bending solutions – from large scale production runs, to customised multiple-bend projects. Fully programmable, the HC-380R2 is ideal for bending tubes and hollow square sections for a range of applications and sectors.

Our highly trained team is also able to process multiple bends and differing planes, and produce severe bends with high quality requirements. With an advanced operating system, the HC-380R2 also provides the flexibility for difficult tube specifications.

The geometric precision of the process prevents wrinkles and ovalisation, ensuring a smooth finish. The tooling can also be reconfigured to meet specific product requirements.





Capability

The HC-380R2 rotary draw tube bender offers a range of tube bending solutions.

This state-of-the-art machinery is 4-axis CNC controlled. This enables feeding, rotation, bending and bend-head horizontal movement with a bend accuracy of ± 0.05 degrees.

Two-stack bending allows for two different bend radii to be integrated into the same workpiece.

The PC-based control also supports 3D simulation software to ensure complete design control, accurate bending and minimal waste.

- ▶ **Bending angle:** maximum 200 degrees
- ▶ **Draw bending radius:** maximum 150mm
- ▶ **Bending length**
With mandrel: 2m
Without mandrel: unlimited

The HC-380R2 is able to accommodate various materials, including steel, stainless steel, aluminium and superalloys.

- ▶ **Bending of mild steel tubes up to 38mm diameter and 2mm wall thickness**
- ▶ **Bending of stainless steel tubes up to 32mm diameter and 1.8mm wall thickness**
- ▶ **Bending of mild steel squares up to 32mm and 1.8mm section**





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 tube bending, 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.



BUILDING ON A 60-YEAR TRADITION OF INNOVATION, QUALITY AND DELIVERY



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 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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