

# General Machining Services



# Machining Solutions for Every Challenge.

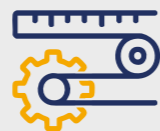
For over 70 years, Swanson Industries has been a leader in general machining services in Australia, specialising in CNC machining, deep hole drilling, gun drilling, STS drilling, and counterboring.

Swanson is quality endorsed by SAI Global to the International Standard AS/NZS ISO 9001.

Our machine shop is supported by a skilled team with a rich history in the field and industry.



**FAST TURNAROUND**



**20+ MACHINES**

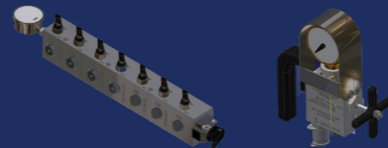


**ISO CERTIFICATION**



**50+ MATERIALS**

*Swanson Industries Australia is a machining manufacturer capable of providing customer machining solutions, producing parts and hydraulic cylinders for both minor and major projects.*



## Our Comprehensive Process

**General machining processes include:**

- > Large turning (1m swing x 8,000mm length bed)
- > Deep hole drilling (30-150mm diameter, 7,000mm depth maximum)
- > Deep hole boring (30-500mm diameter, 7,000mm depth maximum)
- > CNC gun drilling (5-30mm diameter, depth to 100 x hole diameter)
- > Cylinder honing (to 550mm diameter x 8,000mm stroke)
- > Cylindrical grinding (to 3m)
- > CNC milling & turning, multi tasking machines (5-Axis)
- > CNC Milling CNC CO2
- > Diode Laser Surfacing



Call us on **02 4941 1000**

## WHY CHOOSE SWANSON INDUSTRIES FOR MACHINING SERVICES?



### State-of-the-art facilities

Proficiency in manufacturing industrial components thorough the state-of-the-art equipment including CNC machining, deep hole drilling, manual machining services.



### Experienced engineers

Our experienced engineers have deep knowledge to handle any specific tolerance CNC machined parts with specific requirements.



### Fast-turnaround time

We have the capability to provide short lead time by using our modern facilities and skilled workforce from small to large machining projects.



### Quality verification

We employ rigorous, multi-stage verification to ensure all outputs consistently meet or exceed our high quality standards.

## Our Machines

Brand	Model	Description
MAZAK	POWERMASTER 6000	NC Lathe
MAZAK	POWERMASTER 4000	NC Lathe
OKUMA	LB4000	NC Lathe
MORI SEIKI	NL2000	NC Lathe
MAZAK	M4	NC Lathe
MAZAK	SQ28	NC Lathe
HARRISON ALPHA	1800S	NC Lathe
DOOSAN	DBC 130	NC Milling
MAZAK	HCN 8800	NC Milling
MAZAK	FJV	NC Milling
OKUMA	MA650	NC Milling
MORI SEIKI	NH4000	NC Milling

Brand	Model	Description
MAZAK	INTEGREX 1400	Multitask
OKUMA	MULTUS U3000	Multitask Twin Spindle
VARIOUS	Multiple	Manual Lathes
CUSTOM	Custom	Weld Rotators L
CUSTOM	Custom	Weld Rotators S
SUNNEN	HL-1500	Hone
SUNNEN	STH-8000H	Hone
SIG	B30	DHD
TIBO	NAGAL	DHD
BERTRAM	STS Deep Hole	DHD

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# Our General Machine Capabilities

## CNC MACHINING SERVICES



High-precision CNC milling and turning for complex and custom components with tight tolerances.

## MANUAL MACHINING SERVICES



Expert craftsmanship for small - batch and custom machining solutions requiring flexibility and detail.

## DEEP HOLE DRILLING



Precision drilling for long, straight holes in various materials, ensuring accuracy and efficiency.

*We serve industrial machining services accross Australia, especially in Sydney, Queensland and major mining regions, delivering high-precision machining solutions for various industrial sectors.*

## Small or Large we machine it all. From 1 to 10,000pcs

No job is too big or too small! Whether you need a single prototype or a full production run of 10,000 pieces, we deliver precision machining solutions tailored to your needs.

Our advanced CNC and manual machining capabilities ensure high-quality results for every project, custom machining solution from one-off parts to large-scale manufacturing.



## Machining Materials



Aluminium Brass Bronze Steel Stainless Titanium

Call us on 02 4941 1000

# CNC Machine Capabilities



We provide high-precision CNC machining services across Australia for industries requiring accuracy, efficiency, and reliability. Using advanced CNC milling and CNC lathe (turning), we manufacture custom metal components with tight tolerances for mining, construction, aerospace, and hydraulic applications.

## CNC Milling Services



Precision milling for custom components. Advanced machines ensure tight tolerances, accuracy, and fast turnaround for prototypes and production.

## CNC Lathe Services



High-quality cylindrical parts with exceptional accuracy and consistency. Ideal for small or large production volumes with reliable performance.

## CNC Lathe Services



14 advanced machines produce complex, high-precision parts with fewer setups, faster lead times, and outstanding accuracy.

## CNC Machining Parts



Precision CNC machining for high-quality, accurate components with fast turnaround across all materials and scales.

## High Tolerance CNC Machining



Advanced CNC milling, turning, and 5-axis machining delivers parts with tight tolerances for superior quality and performance.

Swanson Industries delivers advanced 5-axis CNC machining for greater precision, complex geometries, and reduced setup times. Our technology ensures superior results for tight tolerances, intricate designs, and high-performance materials.

## Tolerance & Specifications

Specification	CNC Milling	CNC Lathe
Max Part Dimensions	6m x 2 m	6m x 600
Standard Tolerances	0.01mm	0.01mm
Chuck Sizes	n/a	8" - 24"
Table Dimensions	400 - 4000mm	n/a
Max Length	400 - 6000mm	6m



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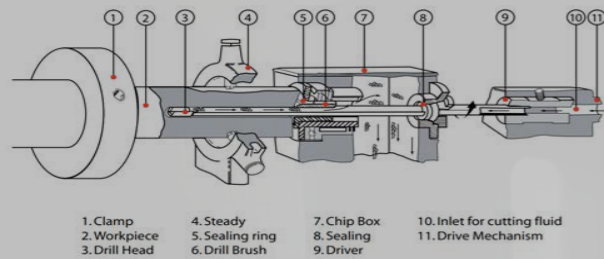


# Deep Hole Drilling Capabilities

Swanson Industries Australia is a trusted provider of industrial deep hole drilling services, delivering reliable, high-precision results for every project. Our investment in advanced CNC and manual equipment, supporting both gun drilling and STS drilling, enables us to meet tight specifications, whether for one-off custom parts or high-volume production.

## WHAT IS GUNDRILLING?

Gun drilling achieves exceptional accuracy for holes up to 40mm diameter using a specialised cutting tool with integrated coolant delivery for chip evacuation and superior surface finish.



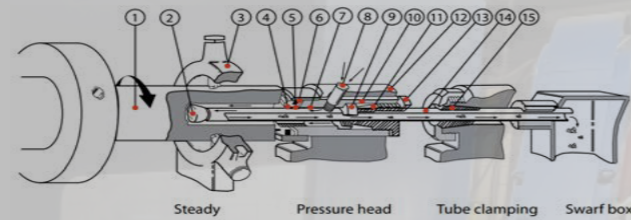
**Applications:**  
Hydraulic manifolds / Engine components / Long, narrow parts

- Key Benefits**
- Excellent concentricity
  - Superior surface finish
  - Tight tolerances

Essential for precision applications where accuracy and finish quality are paramount.

## WHAT IS STS DRILLING (SINGLE TUBE SYSTEM) AND COUNTERBORING?

STS drilling and counterboring are used for larger diameter holes, typically over 20mm, and is better suited for longer, heavier parts. This system pushes coolant through a single drill tube while extracting chips through the center.



**Applications:**  
Hydraulic cylinder barrels / Large bore tubes / Structural components

- Key Benefits:**  
STS drilling provides efficient, high-accuracy large bore drilling, making it ideal for industrial, mining, and hydraulic cylinder manufacturing.

## DEEP HOLE DRILLING APPLICATIONS

Precision drilling solutions for industries demanding accuracy, durability, and performance.

- H HYDRAULIC -** Cylinder barrels and rods with exact bore alignment and superior finish.
- ME MINING & HEAVY EQUIPMENT -** Drill rods, support structures, and wear-resistant components built to endure harsh environments.
- DA DEFENCE & AEROSPACE -** Mission-critical components where precision tolerances and material integrity are paramount.
- E ENERGY -** Power generation, turbines, renewable energy systems.
- OG OIL & GAS -** Downhole tools, drilling equipment, and processing components that withstand extreme conditions.
- GE GENERAL ENGINEERING -** Shafts, precision tooling, and structural components across manufacturing sectors.

Our advanced CNC technology ensures consistent quality from prototype to production.

Call us on **02 4941 1000**

## Manual Machining Capabilities



Our manual machining services are trusted across mining, defence, manufacturing, and general engineering sectors, where accuracy, flexibility, and experience make the difference.

## What sets us apart?

- Manual turning and milling** - For low volume or complex components
- Metal part customisation** - Custom, repair and refurbishment of metal, worn or damaged parts
- Machining and modifications** - For shafts, bushing, flanges, and hydraulic components
- Efficient turnaround times** - Fast Lead time and consistent quality assurance Australia-wide



## MANUAL APPLICATIONS

Swanson Industries Australia provides manual machining services that are ideal for custom, low-volume, or highly specialised machining tasks where CNC may not be practical. Our precision manual machining capabilities are trusted across industries that require hands-on expertise, adaptability, and fine control.

Manual Machining Capability	
Hole Diameters	Up to 500mm
Max Diameter	2000mm
Max Length	8000mm
Max Weight	Up to 10t
Tolerance	As tight as $\pm 0.05$ mm
Quantity	

### Common Applications Include:

- > Custom manual machining for one-off or prototype metal components.
- > Manual turning and milling of shafts, bushings, and flanges.
- > Manual machining for metal parts in repair, refurbishment, or rework jobs.
- > Modifications and alterations to existing parts and components.
- > Manual fabrication services for structural or mechanical parts.
- > Lathe and milling machining services for general engineering and manufacturing.
- > Support for manual machining in Australia where speed, flexibility, or specialised handling is required.
- > Precision hand-finishing of components post - CNC machining





**SWANSON**<sup>®</sup>  
INDUSTRIES

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