



**CAPABILITY  
STATEMENT**  
2023



# COMPANY OVERVIEW

**LE Williams Group Pty Ltd** is a trusted service and engineering firm, located in New South Wales, catering to the defence and pharmaceutical sectors through two dedicated divisions.

In 1986, LE Williams Group began as a family-owned business specialising in hydraulic services for the defence sector.

Today, we have expanded our services to include an engineering division that produces custom components for the pharmaceutical industry and navy sector. As a result, we are a top service provider for both industries, offering unique and comprehensive solutions to meet their diverse needs.

With a reputation for excellence, LE Williams Group is the go-to partner for all your engineering and hydraulic services needs.

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Contact us to learn more about our in-house engineering capabilities and how we can assist with your custom-tailored needs.



Pharmaceutical-grade precision for all your mission-critical manufacturing components.



## OUR PURPOSE

Our state-of-the-art CNC equipment and expert machinists deliver high-quality components for pharmaceutical, defence and other precision engineering clients.

Celebrating over 35 years in business, we've grown from a small family-owned hydraulic repair operation to a leading provider of precision engineering and manufacturing services.

Despite our growth, we still embrace our small-business ideals, placing honesty, integrity and service at the heart of everything we do.

From hydraulic repair to complex fabrication, our commitment to excellence and customer satisfaction remains unchanged.

## HYDRAULIC DIVISION

# OUR SERVICES

LE Williams Group has been providing quality and versatile hydraulic services since 1986.

We specialise in the installation, troubleshooting, overhaul and repair of marine propulsion systems. Our services include thorough inspection and repair of deck cranes, hydraulic winches, pumps, cylinders and tensioning systems.

We also include oil flushing and purification of hydraulic, lube, gear and diesel oil systems to remove solid particles, soft contaminants and water.

**Let us collaborate with you to deliver efficient and reliable hydraulic solutions.**

### HYDRAULIC REPAIR

LE Williams Group, a trusted provider of hydraulic solutions since 1986, is a registered Thales vendor.

We specialise in installation, troubleshooting, overhaul and repair of various systems, including marine propulsion, deck cranes, hydraulic winches, pumps, motors, valves, cylinders, tensioning systems, diesel and electric power packs and pneumatic systems.

Our expertise has made us a regular collaborator with the Australian Navy.

### OIL PURIFICATION AND FLUSHING

LE Williams Group also provides comprehensive oil flushing and purification services for hydraulic, lube, gear and diesel oil systems.

We can remove solid particles, soft contaminants, free water, emulsified water and dissolved water from storage tanks, service tanks, day tanks and various marine systems such as ship steering, deck cranes, winch units and more.

We also offer onsite oil sampling to ensure the quality and performance of your systems.

### DEFENCE WORK

As an important subcontractor in the defence sector, LE Williams Group is proud to provide regular service work for the Australian Navy, working closely with them to ensure our nation's fleet is always mission ready.

We understand the importance of timely and effective maintenance and our team of skilled technicians are always on call to assist with any repairs, breakdowns, or overhauls needed.

We take pride in our role in supporting the Navy and are committed to providing reliable and high-quality service.

LE Williams Group has a dedicated in-house engineering division with extensive experience in various industries, including an emphasis on manufacturing and pharmaceuticals. With a focus on custom-tailored services, we are well-equipped and resourced to cater to the needs of our clients.

Some of our other services include 2D drafting, 3D drawing/modelling, assembly drawings, reverse engineering, specialised jigs, tools and fixtures.

We have advanced CNC milling and turning capabilities, as well as manual turning, wire EDM, conventional EDM and surface and cylindrical grinding.

Below are some custom-tailored samples of items we've manufactured in our in-house engineering department:

- » High-precision components for the defence industry
- » Pharmaceutical processing equipment
- » Specialised mining machinery components
- » Customised jigs, fixtures and tools for manufacturing processes
- » Reverse-engineered components for maintenance and repair
- » Complex hydraulic manifolds and control systems
- » Fabrication of bespoke work benches/flow rigs to facilitate the equipment
- » Specialised brackets and components for aviation and aerospace industries
- » Marine propulsion system components
- » Parts for complex medical equipment

## PHARMACEUTICAL MACHINING

# OUR SERVICES

### 2D DRAFTING + 3D MODELLING

LE Williams Group's engineering division uses advanced 2D and 3D modelling to design components.

With expertise in bespoke items, manufacturing, mining, pharmaceuticals and breakdowns, our team works to improve functionality and design before moving onto the machining process.

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### CNC TECHNOLOGY

LE Williams Group's in-house engineering team uses cutting-edge technology for state-of-the-art design. After creating a 2D/3D model, we use industry-leading CNC machines to manufacture components to exact specifications. Our rigorous machining process includes deburring and polishing, ensuring precision in every aspect of production.

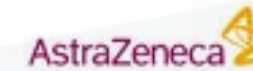
Our engineers expertly assemble the machined components to create processing equipment suitable for even the most complex manufacturing scheme. With precision engineering and fabrication, we ensure that the final product meets your exact specifications and standards.

# OUR CLIENTS

Our work has stood the test of time and tough conditions, earning us a reputation for reliability and excellence in engineering solutions.

At LE Williams, we believe in building long-lasting relationships with our clients. We understand that delivering projects on time and within budget is crucial and we strive to exceed expectations with every service we provide.

Our commitment to quality and customer satisfaction ensures that our clients keep coming back for more.



# INDUSTRIES WE SERVE

LE Williams Group has two distinct divisions: the first one offers comprehensive hydraulic services to the defence sector, while the second caters to the pharmaceutical industry by creating manufacturing components for their production facilities.

We specialise in designing and manufacturing custom-made processing equipment, using the latest in modelling and CNC technology.

With our experienced team, innovative technology and commitment to quality, we are confident in our ability to provide tailored solutions to meet your unique needs.



## DEFENCE

Our hydraulic division has become an integral part of the defence subcontractor community, servicing multiple Navy ship classifications in the Australian fleet.

With years of experience and expertise, we provide reliable and effective hydraulic solutions to keep critical flotilla mission-ready.



## PHARMACEUTICAL

LE Williams Group's engineering division specialises in creating customised manufacturing components for pharmaceutical factories.

Our experienced team uses state-of-the-art technology to design and produce equipment that is tailored to meet the unique needs of each facility, streamlining the production process and ensuring maximum efficiency.

## INDUSTRY

# AUSTRALIAN NAVY

Given our proximity to the Australian Navy bases of HMAS Waterhen and HMAS Kattabul, our company is a regular and critical service provider to the Navy. We are constantly on-call to work on the various hydraulic maintenance and repair issues that are endemic to the culture of national defence programs.

These battle groups are on constant alert and in training to protect Australia and we must be ready to correct complex repair and maintenance issues at any time. Our commitment to their readiness is unwavering.

In this capacity, we are often called in to help with the following hydraulic areas:

- » Marine propulsion systems
- » Deck cranes
- » Hydraulic winches
- » Hydraulic pumps, motors, valves and cylinders
- » Tensioning systems
- » Diesel and electric power packs
- » Pneumatic systems

From the Navy's trust to yours – count on LE Williams Group for top-notch engineering and hydraulic services.

As for the scope of our work, we currently help the Australian Navy with repairs on six vessel classifications.

**Amphibious Assault Ship (LHD)**



**Auxiliary Oiler Replenishment (AOR)**



**Destroyer, Guided Missile (DDG)**



**Frigate, Helicopter (FFH)**




**Landing Ship, Dock (LSD)**



**Minehunter, Coastal (MHC)**





Simple solutions for complex manufacturing challenges. Our experienced engineering team is up for any task, making things work just the way you need them to.

## INDUSTRY

# PHARMACEUTICAL INDUSTRY

LE Williams Engineering's specialty is in providing customised manufacturing solutions for a range of industries in Australia. Our expertise lies in the intricate assembly and production lines for these sectors, with a particular focus on pharmaceutical production.

We work closely with clients to understand their unique needs and provide tailored solutions that improve efficiency and productivity while ensuring the highest quality standards are met.

Our capabilities within this industry include:

- » 2D drafting
- » 3D drawing/modelling
- » Assembly drawings
- » Manufacture of 3D components
- » Reverse engineering
- » Specialised jigs, tools and fixtures
- » CNC milling and turning
- » EDM
- » Wire cutting
- » Surface and cylindrical fabrication



## CASE STUDY

# Sonar Deployment Device

## PROBLEM

LE Williams faced the formidable challenge of reverse engineering an outdated sonar deployment device that had suffered extensive corrosion, hindering the Navy vessel's operational readiness and mission fulfillment.

Extraction of the device from a hard-to-reach section required removing significant portions of the vessel's structure.



## OUR SOLUTION

Undeterred, LE Williams extracted the device and transported it to its repair facility. Extensive research was conducted to understand the device's composition. Meticulously creating new blueprints and procuring appropriate materials, LE Williams utilised state-of-the-art facilities to manufacture the entire sonar deployment unit in-house.

Upon completion, the device was seamlessly reinstalled with the collaboration of the vessel's crew. Through our unwavering commitment, LE Williams successfully recommissioned the unit, restoring the vessel's operational capacity and enabling it to continue its crucial mission.

Throughout the process, our team proved to be a cooperative partner with the client, providing a comprehensive solution with on-site work, efficient reverse engineering and seamless retrofitting capabilities. This job demonstrated our all-encompassing approach and showcased our expertise as a true one-stop-shop.



## CASE STUDY

# Redesigning High-Wearing Item for Pharmaceutical Company

A pharmaceutical company approached LE Williams with a challenge to redesign one of their high-wearing items to reduce its wear and tear.

Our engineering team took on the task and came up with an innovative solution that not only reduced the wear on the item but also helped the customer save money by extending the life of the item.

The new design also meant less downtime for the customer's machines, enabling them to produce more products efficiently.

**At LE Williams, precision is our obsession. We understand that perfectly manufactured components are essential to ensure optimal performance without unnecessary failures.**



## CASE STUDY

# Hydraulic Cylinder Repair for the Navy

LE Williams was approached by the Navy to repair a hydraulic system that had failed repeatedly despite multiple attempts by other contractors.

Our engineering team quickly identified a flaw in the system and provided a solution to rectify the issue causing the cylinders to fail.

With our expertise, the hydraulic cylinder was repaired correctly and the Navy could rely on the equipment to be functional, ensuring the safety of the personnel involved.

We were able to accomplish this task through the use of our in-house precision grinding machinery for the cylinders and our top-of-the-line metrology equipment to ensure straight and true shafts.

Our team of highly skilled engineers, who possess years of experience, were well-equipped to successfully execute this project.





With over 80 years of combined experience, our engineering team excels in design.

Our lead engineer has a long history of collaboration with the Australian Defence Force; the second engineer specialises in CAD/CAM and serves as our head programmer and the third engineer is a designer who also supervises all the fabrication services on the factory floor.

We pride ourselves on our comprehensive and thorough engineering capabilities.

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