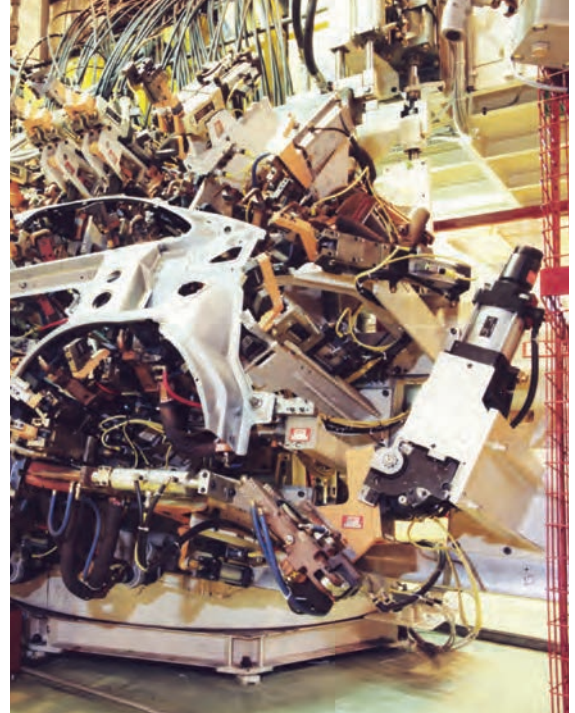


SALES SERVICE SOLUTIONS



**TORQUE**  
INDUSTRIES

[torqind.com](http://torqind.com)

est.  
1985  
history

Today, Torque Industries continues to invest and diversify. We have evolved to be a specialised engineering service provider and pride ourselves on offering a fully integrated business model to industry.

Sales-Service-Solutions it's our "Total Solution" for our customers.

## HISTORY

Torque Industries story began in Adelaide S.A in 1985 founded as Torque Hydraulics, primarily supplying parts and components to Industry. The business evolved and diversified to include complete motion and control system design, build, supply, install, commission and maintenance / repair, both in house and on site.

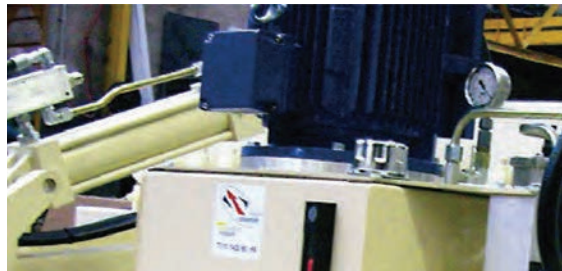
Solid business growth and greater diversity of services required a larger premises hence in 2004 Torque Hydraulics relocated to its current 3000sqm head office in Athol Park S.A.

In 2008 Torque Hydraulics acquired Hydrpac Waste Systems, a specialist designer and manufacturer of vertical and horizontal baling equipment with over 30 years industry experience. At that point Torque Industries Pty Ltd was formed.

In 2012, Torque Industries acquired IPS Automation, a specialist in pneumatics, vacuum technology and gas generation.

We have been fortunate to develop great relationships with loyal customers ranging from the "individual off the street" to large corporations. We have designed and supplied turnkey solutions to all Australian States along with USA, India, UAE, Korea, Vietnam and Singapore.

**TORQUE**  
INDUSTRIES



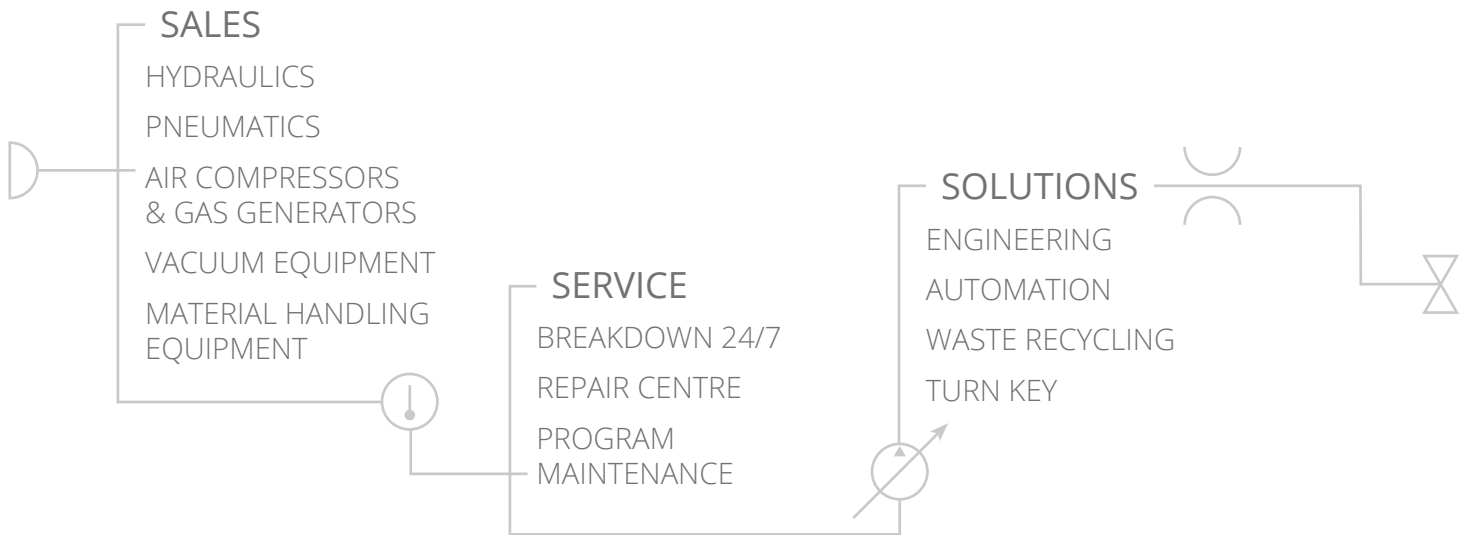
A photograph of a tunnel under construction. The tunnel's interior is lined with a dark, ribbed material, likely steel or concrete, forming a series of arches. A worker wearing a hard hat and a dark jacket is silhouetted against the bright light at the end of the tunnel. The perspective is from the dark interior looking towards the bright exit. A red rectangular overlay is positioned in the upper left corner, containing the word 'vision' in white lowercase letters.

# vision

To continually improve all aspects of our customers businesses by the way we operate – bringing about better economic, safe and environmental outcomes - creating a better tomorrow than today. Our vision is put into action by focussing on continuous education, research and technology and premier customer service, making Torque Industries a truly sustainable company.

**VALUE PROPOSITION**

We strive for diversity;  
our value is derived from  
providing a fully integrated  
business model to industry,  
*Sales – Service – Solutions*  
it's our "Total Solution"  
for our customers.



**OUR PEOPLE**

We employ  
the best and  
we never stop  
training.

**OUR COMMITMENT**

Go the extra  
mile to create  
the best  
outcome.

**OUR TENACITY**

Success is our  
driving force.

# quality



Torque Industries recognises that the disciplines of quality, health & safety and environmental management are an integral part of its management function. The organisation views these as a primary responsibility and to be the key to good business in adopting appropriate quality standards. It is also our aim that, with the total involvement and understanding of all staff through the implementation of a documented quality management and information system, meeting the ISO 9001:2008 Standard, we will exceed the expectations of our customers and staff.

# oh&s

The health and safety policy of Torque Industries, is a commitment in providing and maintaining a safe and healthy workplace for all staff, Contractors and Visitors in accordance with the relevant Commonwealth and State Occupational Health and Safety and welfare regulations.

Torque Industries will pursue a proactive program including the elimination or control of workplace hazards, promoting safe systems of work, accident prevention and investigation, health and safety education and promotion. Occupational work and safety will form an integral component in the development of programs; procedures work practices, inductions and training.

# brands

Parker Hannifin is the world's leading diversified manufacturer of motion and control technologies and systems. The company's products are vital to virtually everything that moves or requires control.

Torque Industries is proud to be recognised as a Parker Premier Distributor (PPD).



DIRECT ACCESS TO



# servicing your industry





# hydraulics



## HYDRAULIC

- \* Pumps
- \* Motors
- \* Valves
- \* Cylinders
- \* Power units
- \* Accessories
- \* Hose & fittings
- \* Servo & Proportional Control
- \* Condition monitoring equipment
- \* Jacking equipment
- \* Accumulators
- \* Lubrication systems
- \* oil



Torque Industries strives to meet our customers' requirements.

We know dependability and reliability are critical hence we stock a huge range of the highest quality hydraulic parts and components. Our internal sales team are professionally trained and possess the expertise to apply products to specific applications and research challenging enquiries to find effective solutions.

## FILTRATION

- \* Oil filters
- \* Fuel filters
- \* Diagnostic equipment
- \* Water detection

## FLUID CONNECTORS

- \* Hose
- \* Hose fittings
- \* Adaptors
- \* Tube fittings
- \* Quick couplers
- \* Rotary unions



# pneumatics



Pneumatics is a rapidly advancing technology.

With the integration of sophisticated electronics we have seen pneumatics develop into a core power source for today's industrial world. No matter how small or large your Pneumatic enquiry is, the team at Torque have the technical expertise and product breadth to meet your requirements.

## **PNEUMATICS**

- \* Actuators
- \* Cylinders
- \* Motors
- \* Valves
- \* Regulators
- \* Lubricators
- \* Tube & fittings
- \* Gas boosters
- \* Air pressure amplifiers
- \* Vacuum generators & vacuum cups
- \* Air movers & material conveyors
- \* Cabinet coolers

## **PUMPS**

- \* Diaphragm pumps
- \* Drum pumps
- \* Lubrication & grease pumps
- \* Extrusion pumps
- \* Chemical & ink pumps
- \* High pressure liquid pumps

## **AIR TOOLS**

- \* Assembly tools
- \* Finishing tools
- \* Impact tools
- \* Construction tools
- \* Air Motors
- \* Engine starters

## **COMPRESSED AIR QUALITY**

- \* Filtration to ISO quality
- \* Refrigerated, desiccant & membrane air dryers
- \* Bulk water removal filters
- \* Oil vapour removal
- \* Breathing air quality filters
- \* Industrial filtration
- \* Special application filters

# air compressors & gas generators

Supplying the correct quality of compressed air to systems and equipment is vital to maximising the life of equipment and preventing product contamination. In partnership with Parker Domnick Hunter and Ingersoll Rand, Torque Industries provides a range of air compressors, filtration and preparation equipment that maintain the quality of compressed air, ensuring maximum service life of equipment and minimising the risk of product contamination.

Domnick Hunter and Bauer Kompressoren specialise in purification and separation technologies where compressed air and gas purity, product quality, technological excellence and global support are paramount. Torque Industries is pleased to assist with the application of compressed air treatment products, gas generators and ancillary equipment for many key industries where ease of integration, low cost of ownership and energy savings can make a real difference.

## PRODUCTS

- \* Desiccant dryers
- \* Nitrogen gas generators
- \* Medical filtration
- \* Sterile & medical air filters
- \* Condensate control
- \* Oil/Water separators
- \* Chillers
- \* High pressure compressors
- \* CNG technology
- \* Analytical gas generation
- \* Reciprocating compressors
- \* Screw compressors
- \* Industrial reciprocating compressors
- \* Rotary screw compressors
- \* High pressure breathing air compressors
- \* BA and scuba tank fill stations



# vacuum equipment

At Torque Industries we have broad experience with vacuum pumps and systems and are able to offer sound solutions to all applications. Our practical approach is based on years of experience fine tuning systems to obtain the best results and can provide real savings on running costs, maintenance & repair costs as well as minimising down time and lost production.

Understanding the importance of operating environment, system design and component location is vital to ensuring optimum system operation, this is what Torque Industries is able to offer.

All too often poor system design or lack of programmed maintenance leads to reduced service life and increased down time. If you think you have a problem why not speak to one of our trained people to see if we can reduce the overall cost of your vacuum system.

We have technicians experienced in the service and repair of all makes of vacuum pumps and can offer a complete maintenance package that will minimise down time and total cost of ownership.

With a wide range of genuine spare parts on-the-shelf in Adelaide, we can help minimise your downtime.





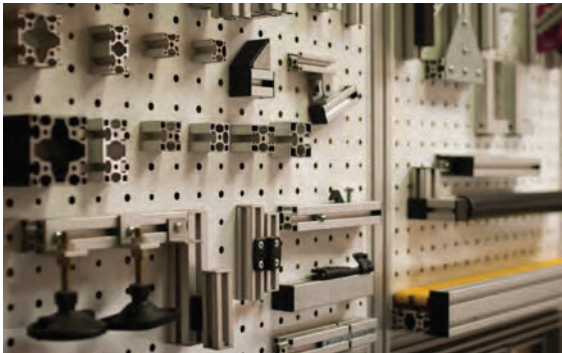
## PRODUCTS

- \* Oil recirculated rotary vane vacuum pumps
- \* Once-through-oil lubricated & dry running
- \* Dry-running rotary vane pumps
- \* Dry-running vane pumps for pressure & vacuum
- \* Roots pumps
- \* Side channel blowers
- \* Vacuum pumping units & central systems
- \* Accessories & installation
- \* Vacuum lifting



# material handling

Torque Industries has the capability to solve your material handling problem. With the support of our distribution partners and our extensive design and application experience, we have your needs covered.



## **INGERSOLL RAND**

For nearly a century, Ingersoll Rand has been serving the material handling needs of industries around the globe. The many years of manufacturing experience has created a unique ability to supply the highest quality material handling solutions, technology, and services available in the world.

By using Ingersoll Rand solutions created for your material handling needs, you can expect improved productivity demanded by a global economy. At the same time, you can expect ergonomic solutions which improve operator performance and avoid labour downtime due to health or safety issues by using automation.

## **GORBEL SAFETECH**

Utilising Gorbels' 30 year experience in providing overhead handling solutions to customers in a wide range of industries, Torque can apply and supply a comprehensive line of Crane Technology products, including work station bridge cranes, patented track cranes, I-beam jib cranes, gantries, and work station jib cranes.

## **AME SYSTEM**

AME System provides a complete solution for versatile storage and workstations. There is a range of ready to assemble desks and workstations designed on ergonomic principles to maximise worker efficiency, safety and job motivation. AME System designs can be customised to suit individual requirements and the flexibility of the AME System allows one-off units to be custom made economically. Design your own or have our trained staff design a solution to meet your exact requirements.

## **PRODUCTS**

- \* Hand winches
- \* Barge winches
- \* Air winches
- \* Manual ratchet pullers
- \* Manual chain hoists
- \* Air chain hoists
- \* Manual & power trolleys
- \* Pneumatic balancers
- \* End effectors
- \* Rail systems
- \* Lifting systems
- \* Manipulator arms
- \* Rotary action handlers
- \* Signature bundle
- \* Handlers & hydraulic lift tables
- \* AME System ergonomic work stations



onsite  
service

24/7



We realise many industries do not stop, so neither does Torque. Whether it is an emergency breakdown, troubleshooting or scheduled maintenance the team at Torque Industries are experienced and we get things done efficiently and safely.

Torque has the resources to provide onsite service that is unmatched in South Australia. Our technicians are professionally trained across our diverse platform of products and highly skilled in diagnosing any problem 24/7.



#### SERVICE AND CAPABILITIES

- \* 24/7 mobile service

#### DIAGNOSTICS

- \* Pump/motor flow testing
- \* Valve testing
- \* Cylinder bypass test
- \* Troubleshooting
- \* Air purity testing

#### SERVICE AND INSTALLATIONS

- \* Hydraulic systems
- \* General pneumatics
- \* Industrial & medical vacuum pumps
- \* Nitrogen generation systems
- \* Automation control systems
- \* Compressors – Air/CNG
- \* High pressure breathing air
- \* Industrial gluing systems
- \* Airlines
- \* Piping systems



# repair centre

Torque Industries is well prepared to handle a wide range of repairs. Our repair centre is fully equipped with modern test machinery coupled with designated machining and product-based rebuild cells. Our service technicians are highly trained and dedicated to ensure premier customer service.







### SERVICE/REPAIR

- \* Hydraulic pumps
- \* Hydraulic & pneumatic motors
- \* Hydraulic & pneumatic cylinders
- \* Hydraulic steering orbitals
- \* Wheel & track drive hubs & brake units
- \* Accumulators
- \* Hydraulic & pneumatic control valves
- \* Hydraulic & pneumatic proportional components
- \* General pneumatic components
- \* Hose assemblies
- \* Nitrogen generators
- \* Air operated pumping equipment
- \* Compressors – Air/CNG
- \* High pressure breathing air systems
- \* Industrial & medical vacuum pumps
- \* Air tools (all brands)



# program maintenance



By working with clients over many years we have come to know their plant almost as well as they do. Our experience tells us that regular programmed servicing saves thousands in the long run, not to mention the heartache.

## **WHAT IS PROGRAM MAINTENANCE (PM) ?**

PM is a maintenance process where the condition of the equipment is monitored for early signs of impending failure. Advanced technologies are used in order to determine equipment condition. The advanced technologies include the following, but not limited to:

- \* Oil Analysis programs- Particle count, Spectrochemical analysis, filtergram
- \* Pump and motor performance testing
- \* Vibration Analysis and Measurement
- \* Thermo / inspections
- \* Graphing cycles in pressure and flow

## **IN ADDITION**

- \* Preventative Maintenance Inspections
- \* Magnetic Plug Inspections
- \* Filter Analysis
- \* System Reviews and redesigns

## **WHY THE NEED FOR PROGRAM MAINTENANCE?**

Steps to operational excellence:- In order to achieve your goals, we must firstly address your needs. Which are:

- \* Predict equipment failures
- \* View the overall condition of the equipment
- \* Greater accuracy in failure prediction
- \* Reduce the cost of condition monitoring
- \* Improve equipment and component reliability
- \* Optimise equipment performance

## **WHAT ARE THE BENEFITS OF CONDITION MONITORING?**

By applying our technology as outlined above, we have helped you to achieve the following benefits:

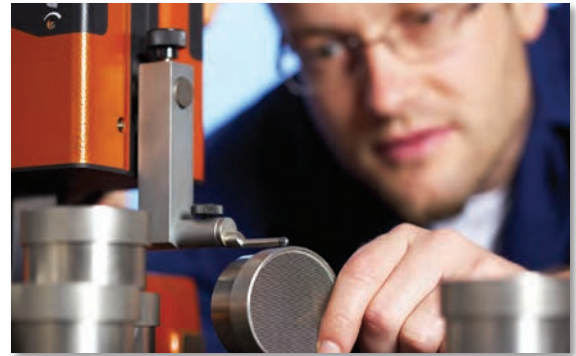
- \* Fewer breakdowns
- \* Greater productivity
- \* Reduced costs
- \* Optimise oil change periods
- \* Extend equipment life
- \* Greater equipment performance

## **SERVICES/ CAPABILITIES**

- \* Structured program maintenance
- \* Planned service
- \* Asset database management
- \* Oil analysis

# mechanical engineering

Torque Industries' approach is to deliver products in the quickest and most cost effective manner practicable, and exceed your requirements and expectations.



Torque Industries will involve your personnel, modern technology (solid modelling, finite element stress analysis, flow simulations) and the network of subject experts to produce the optimum design solution for your application, starting from definition of your requirements, through concept/system/detailed design, manufacturing to installation and commissioning.

## **MECHANICAL DESIGN** *(from concept to production)*

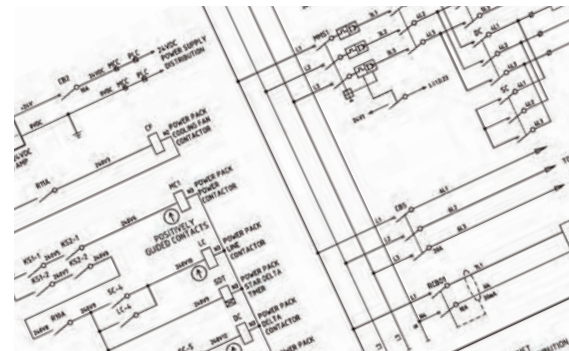
- \* Special purpose machines
- \* Hydraulic power and control systems
- \* Pneumatic power and control systems
- \* Nitrogen generation systems
- \* Vacuum generation systems
- \* Adhesive dispensing systems
- \* Special purpose jigs and fixtures
- \* Material handling solutions

## **SERVICES**

- \* Project management
- \* Solid modelling
- \* Detailed design drafting
- \* Finite elements stress and displacement analysis
- \* Hydraulic flow simulations
- \* Engineering reporting  
*(calculations, assessments, etc.)*
- \* Hazard Risk Assessment and Root Cause Analysis
- \* Documentation  
*(operation manuals, system schematics, general assembly drawings and parts lists, detailed design drawings, test & commissioning instructions, project plans, schedules, cost estimates)*

# automation

Torque's electrical engineers seek to create the best outcome in Design & Control of automated machines; from concept to production, we aim to exceed our customers' expectations by providing innovative automation solutions whilst meeting all relevant standards of safety systems.





### **ELECTRICAL DESIGN** *(from concept to production)*

- \* Special purpose machines.
- \* Motion control, proportional hydraulic and servo.
- \* Mobile equipment.
- \* Safety systems (category 1 – 4)

### **SERVICES**

- \* Job cost estimation including bill of materials.
- \* Electrical circuits design and drafting.
- \* Electrical enclosure layouts
- \* Electrical installation.
- \* Develop PLC software functional description including safety related software development and validation.
- \* PLC, HMI, SCADA and Drives programming. Including:
  - Rockwell Automation, Allen Bradley.
  - Omron.
  - Parker IQAN.
  - Danfoss Plus 1.
  - Bosch Rexroth.
  - Schneider Electric.
  - Mitsubishi.
  - Siemens.
  - Keyence.
  - Proface.
  - Red Lion Controls.
  - Unitronics.
  - Citect SCADA.
- \* Inspection test procedures and documentation.
- \* Commissioning.
- \* Operations and maintenance manuals.
- \* Technical data package, PDF format.
- \* System schematic diagrams and software disk including a list of recommended spare components.
- \* Troubleshooting and ongoing maintenance.

# waste & recycling



## RECYCLING MACHINERY

Hydra-Pac, a division of Torque Industries, specialises in manufacturing waste and recycling machinery. Hydra-pac provides clients with a complete waste solution that is safe, clean and affordable.

How we manage waste does require a rethink. Talk to us about how we can help you take steps to reduce, reuse, recycle and optimise your waste management approach. You might even save some cash!

From a single location to multi-site operations Hydra-Pac has a recycling unit that will suit your needs. The brand is supported by a national network of service providers ensuring operating units are maintained in peak condition delivering many years of trouble free usage.

## PRODUCTS

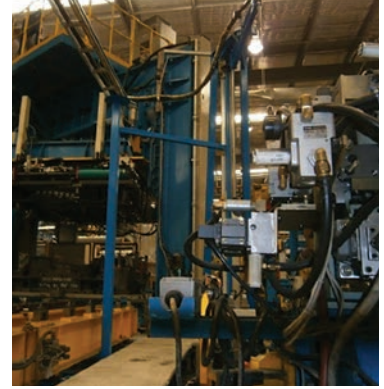
- \* Vertical balers
- \* Horizontal auto/manual-tie balers
- \* Bottle breakers
- \* MSW balers
- \* Can balers
- \* Filter press
- \* Drum crushers
- \* Conveyors
- \* Shredders
- \* Bins & densifiers
- \* Spare parts & bale ties/wire

# past projects

## CLIENT: Hirotec Australia

Project: IPS Adhesive Dispensing System

Service: The design work involved construction of air-conditioned huts for the dispensing systems, a frame with a pneumatically actuated arm for mounting a dispensing gun, support structure for the supply hoses, and electrical wiring of the power and control system



## CLIENT: Engineering & Building Services, SA Health

Project: Vacuum Pumps System Upgrade

Service: Design and installation of two tank mounted stand alone vacuum systems, each comprising three vacuum pumps and two large biomedical filters, as well as the power supply and control units. The two systems were linked with themselves and the rest of the hospital through 3" copper pipes



## CLIENT: Halliburton Pty. Ltd.

Project: B.O.P.S.

(Blow Out Prevention System)  
Hydraulic Power System

Service: Hydraulic design, manufacture and commissioning of HPS (Hydraulic Power System) – to operate a Quad Blow Out Prevention System (BOP).



## CLIENT: Smart Systems

Project: Rail Yard Door System

Service: Mechanical/hydraulic/electrical design and installation of 10 sets of doors for the state government rail service.



## CLIENT: SPI Mobile Pulley Works Inc. Alabama USA

Project: Spud Lifting System

on Mineral Sands Dredge

Service: Hydraulic design, manufacture and installation for operation of a spud-lifting system on 60 metre mineral sands dredge.



## CLIENT Michell Pty. Ltd.

Project: Gualchierani Press Removal

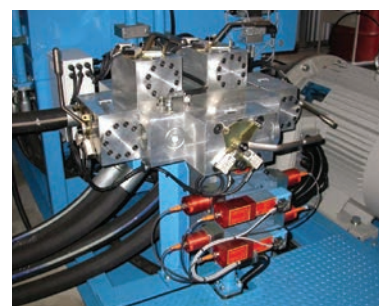
Service: Project planning for complete decommission of a 600T hydraulic wool press and removal from site and reinstating of the premises to client's satisfaction.



## CLIENT DSTO

Project: Hydraulic Power and Control System

Service: Torque Industries designed a new hydraulic power unit, upgraded the existing hydraulic system, and replaced and extended the electrical supply and control system of the DSTO Missile Simulation Centre.



# TORQUE

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