



**YOUR TOTAL FLUID POWER
SOLUTIONS PROVIDER OF CHOICE**





PROUDLY MANUFACTURED
IN AUSTRALIA BY

CUSTOM
fluidpower



Who We Are

Custom Fluidpower, Australia's largest independent fluid power solutions provider, is proudly customer focused with an emphasis on delivering total engineered solutions.

Our innovative approach gives our customers the competitive edge needed to succeed in their markets. We understand our customers' often harsh working environments and match those conditions to world leading products.

Custom Fluidpower is a wholly owned subsidiary of Helios Technologies and Australian operated, with branches Australia wide, we are well positioned to deliver services to industry hubs.

The company is staffed with over 230 varied and skilled personnel covering design, engineering, business development, product specialists, technicians, trainers and a proactive management group. Together they form a team that can provide extensive fluid power services to industry.

Through the strength of our people we aim to exceed industry expectations by delivering superior solutions and demonstrating excellence in customer service. We are committed to being consistently innovative with our products and services and to provide safe, high quality fluid power and industrial systems whilst achieving profitable growth.

Servicing Your Industry

At Custom Fluidpower, we pride ourselves on the supply of quality integrated hydraulic solutions to the mining, agricultural, aerospace, exploration, construction, marine, energy, and materials handling industries.

Our experience across such a broad range of industries ensures our flexibility in adapting our skills to our customers' relevant industry requirements.

Mining



Materials Handling



Exploration



Agriculture



Marine



Construction



Energy



Aerospace





Providing Complete Fluid Power Services to Meet Your Unique Requirements

Custom Fluidpower offers a complete range of fluid power services from concept to commissioning and asset management. We bring together our people and suppliers with our customers and work closely together to deliver you the best possible solution.

Services Overview

- Total circuit design and supply
- Power unit manufacture
- Turn key projects
- Hydraulic manifold design and manufacture
- Field service and fault diagnosis
- Workshop repairs and component rebuilds
- Site installation and commissioning
- Hydraulic and pneumatic component sales and technical support
- On-site component life and performance monitoring
- In-house test facilities
- Fluid power training





Supplying You with Quality Products When You Need Them

Custom Fluidpower are distributors of world class fluid power and supporting products delivered through national supply agreements, including a range of exclusive Australian distributorships.

Our national warehouse and logistics system, incorporating local parts holding in regional branches, enables us to offer next day delivery Australia wide.

We are flexible in working to your preferred procurement arrangement, including stock holding based on forward planning and parts supply contracts at agreed rates.

Product Range

- Pumps
- Motors
- Valves
- Gearboxes and hubs
- Manifolds
- Hoses and fittings
- Electronic controls
- Filtration
- Accumulators
- Coolers and heat exchangers
- Lubrication systems
- Hydraulic tools
- Braking systems
- Power units



We only provide products from brands we know and trust.
 Custom Fluidpower is the Australian distributor for:



Custom Fluidpower manufacturing:



Engineering and Building Your Complete Fluid Power Driven Systems

Our skilled and experienced designers and engineers can work with you to develop a new system from scratch. We focus on high efficiency designs to assist you to lower ongoing maintenance and energy costs.

Custom Fluidpower are innovators in our field. We can incorporate the latest technology, including electronic controls, into systems to achieve our customers' goals.

From OEM solutions, to providing engineered solutions for end users, Custom Fluidpower are experts in fulfilling your complete system design requirements.



Hydraulic Booster Drive

A coal hauler required additional power when travelling up inclines - Custom Fluidpower designed a system to boost engine power when necessary.

Tyre Handler

This technologically advanced equipment is specifically designed to assist with the safe and efficient removal, and installation of tyres on mine haul trucks within a standard workshop bay.

Custom Fluidpower provides the hydraulic motion control solutions to keep pace with evolving developments in heavy machinery design and the need to safely lift and handle heavier components, delivering benefits that include improved safety and efficiency.



Recovery Unit

The Recovery Unit was developed to aid in the recovery of Off-Highway Equipment in the event of a breakdown. The unit utilises the existing hydraulic fluid reservoir of the Off-Highway Equipment to supply all essential systems (e.g. brakes and steering) with power, allowing the vehicle to be safely towed to a place where repairs can be carried out.

The Recovery Unit can supply hydraulic and pneumatic pressure, and electric power to the recovered vehicle depending on the requirements. By using a hydraulic system with flexible output parameters, the system can be set to accommodate a vast array of equipment.

The Recovery Unit is secured to the recovered vehicle via a modular mounting system which allows it to be easily attached to almost any vehicle.





Assisting You to Improve Your Existing Systems

Custom Fluidpower's experienced engineering team can offer solutions to problems you are experiencing with your existing systems.

From converting an electric system to a hydraulic one, to making your fluid power system more efficient, we have the skill and experience to improve your existing system's performance.



Sag Mill Inching Drive

The current sag mill inching drive, with electric actuated disc brake fitted to the opposite side of the motor, was providing no control and no hold.

Custom Fluidpower were required to provide positive braking to the mill during mill maintenance. A reline operation was conducted in order to stop the mill in any position with precise operation regardless of feed inside the mill.

Drilling Rig Combination Valve

The customer manufactures multipurpose drilling rigs. The company's machines are very compact and have a number of integrated functions. However, they have had some issues with the envelope size and serviceability of the control side of their hydraulic system.

To solve these issues, Custom Fluidpower designed a combination valve that integrated all the control functions into a single unit. Following previous successful applications of Nimco's CV2000LS post-compensated proportional valve, a design that integrates the performance and cost efficiency of a high-end mobile control valve with the flexibility of a manifold design was developed.



Trailer Mounted Hydraulic Power Unit

Custom Fluidpower was given a project relating to drill rigs purchased from overseas - these were described as work over rigs. This means that they are used for servicing existing wells and not designed to drill new holes.

The drilling company had purchased a top drive unit and required suitable hydraulic power to drive it as there was not sufficient power within the main rigs.

Custom Fluidpower supplied a trailer mounted power unit with diesel engine, closed loop pump, auxiliary pump, plus a small fan pilot control pump.

Filtration, cooling, remote control console, hosing and auxiliary equipment was also fitted.





Meeting Your On and Off-Site Service and Repair Requirements

Our fully equipped workshops and skilled technicians are available for the complete repair and overhaul of hydraulic components, fluid power systems and equipment.

Our facilities include full machining facilities, test stations, cylinder strip down benches, honing machines, and welding bays.



Onsite Service

To assist you in minimising your downtime, our qualified hydraulic technicians are on call to manage breakdowns and routine system servicing. The high calibre of our technicians allows us to carry out complex work more efficiently and effectively.

All service vehicles are equipped with online testing and diagnostic equipment and four-wheel drive service vehicles are available for hard to access equipment.

We are experienced in service programs for mining industry related componentry including stackers and reclaimers, rail clamps, lubrication trucks, and hiab cranes.

We can also provide maintenance and service work to clean coal and raw coal sample stations. Our team is experienced in mechanical and electrical inspections, repairs, and preventative maintenance to all componentry associated with coal sampling stations.



Installation and Commissioning

Custom Fluidpower provide full installation and commissioning services for sites Australia wide.

Our scope of installation works includes:

- On-site manufacturing facilities
- Fully equipped installation vehicles
- Test equipment for commissioning purposes
- Training and induction of site personnel
- Hazardous site capabilities
- Full job safety analysis conducted on all sites



Increase Your Productivity with Asset Management Services

Do you have a number of hydraulic and lubrication systems that need repair, service, and spares control?

Custom Fluidpower can provide you with a dedicated site facilitator with technical and engineering skills to manage your fluid power assets, freeing up your team's time to grow your core business. We can oversee workshop repairs, plant shutdown repairs, improvements, installations, and assist with system design and technical support.

When you choose to use Custom Fluidpower's asset management services we become an integral part of your organisation with our intimate knowledge of your needs obtained through an audit of your requirements. We will then consult on production improvement, spares rationalisation, new plant specifications, maintenance and service schedules, and more.

Custom Fluidpower will adhere to your site safety requirements at all times and will keep accurate and accessible records of components, repairs and improvements on your behalf. We will assist you in your drive for continuous improvement and standardisation across your site.



Improve Your Equipment Reliability and Save Space with a Custom Manifold

Manifolds are the best choice for any fluid power system. They are space saving, weight reducing, versatile and reliable. Use of manifolds reduces build times and inventory levels, helps ensure product quality, and improves overall reliability and maintainability.

Custom Fluidpower is in the unique position to offer full system integration for manifold applications. Our technical capabilities enable us to design, supply, install, commission and service from our own resources.

Manifolds designed and supplied by Custom Fluidpower meet high standards of quality and service through state of the art manufacturing facilities. We incorporate LEAN manufacturing principles to efficiently produce accurate, repeatable and superior final products.

Our qualified and experienced engineering and service support staff are available any time to assist you with system design and manifold innovation.

CUSTOM
MANIFOLDS
INNOVATIVE SOLUTIONS.



Gantry Crane

This application was redesigned to improve safety and operating efficiency by substituting a single compact manifold incorporating electronic controls for multiple manifolds and valves. Associated benefits included fewer leak points, reduced weight, reduced assembly time and space requirements, reduced tooling, and reduced inventory cost.



Modular Brake Cooling

Custom Fluidpower designed and supplied an OEM with a brake cooling manifold to reduce leaks and inventory and assembly costs. The solution was tailored to fit an existing space and fixture arrangement to avoid any need for modification of the existing OEM design.

Smart and Safe Solutions for Your Industrial Braking Requirements

Custom Fluidpower can provide complete braking solutions with our own CSB Series Brakes or Hillmar's world class product.

The CSB Series caliper is a spring applied and hydraulically released fail-safe disc brake with a clamping force up to 120KN, available in a 200, 300, and 3000 series.



This brake's unique design focuses on safety by removing the risk of injury while undertaking pad change and regular maintenance. Designed in Australia for tough mining conditions, the CSB series brakes are suitable for abrasive and corrosive environments.

Custom Brakes have developed an Electronic Brake Torque Control system which monitors and controls the entire braking system over time regardless of any variation in braking torque.

We also manufacture and design hydraulic power units to operate hydraulically released, fail-safe, spring applied brake calipers.

Custom Fluidpower is your exclusive Australian distributor of Hillmar, ISO 9001:2000 certified braking solutions. Hillmar, an international leader in the design and manufacture of industrial brakes, produces an extensive product range including:

- Storm brakes
- Thrusters and thruster disc brakes
- Cable reels and accessories



BHPB Worsley

Bechtel had a braking requirement for BHPB Worsley's E&G Project for low speed brakes on an overland conveyor. Custom Fluidpower supplied four CSBH3100 Custom Safe Brakes, complete with pad wear and brake on/off switches and organic pad sets. These were supported by two APU74 hydraulic power units for standard controlled braking



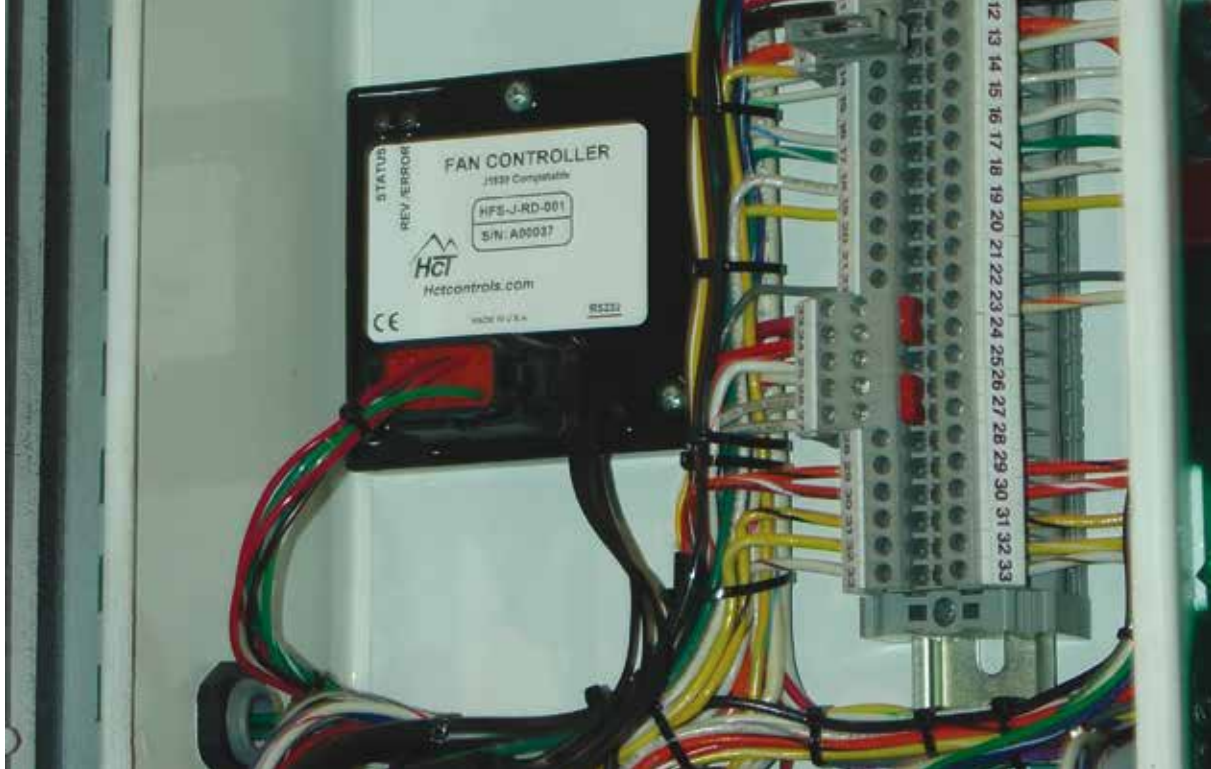
Carborough Downs

To fulfil the requirements for low speed brakes on a drift conveyor at Vale Carborough Downs QLD, Custom Fluidpower supplied Australian Conveyor Engineering with six CSBH3100 and an APU220 power unit designed to stop the conveyor in 15 seconds under all conditions including total black out.



NCIG

Four CSBH3080 brakes were supplied to NCIG Newcastle Coal Infrastructure Group for a low speed braking requirement on stockpile conveyors. These were supported by three APU220 power units in proportional braking format, all supplied within a full stainless steel enclosure.



Control Your System with the Latest Electronic Solutions

Custom Fluidpower enjoys a number of partnerships with globally respected manufacturers of control and process system equipment. These products, with their associated state of the art technology, allow our company to tailor and optimise solutions for our customers in the many varied and challenging applications within our industry.

To support the rapid advances in technology and the demands by industry and customers, Custom Fluidpower continues to increase our in-house capability. This facility allows for the complete package, integrating hydraulic design with innovative control systems solutions. These solutions incorporate the latest electrical and electronic products along with programmable controllers and graphical user interface equipment.

Typical applications may require hydraulic valves to be designed and installed into hydraulic motor, manifold and cylinder circuits. Custom Fluidpower can offer design and supply of the control systems to enable operation in accordance with customer specified criteria.

We also design and supply proportional electronic control systems (E.B.T.C) for our range of industrial brakes. These complete packages minimise the burden on our customers for multiple vendor interaction.



Custom Fluidpower continues to work with our customers to meet the many control requirements of applications in our industry today. We offer product dependability and ongoing service and support.

Lower Your Risk and Increase Employee Skills with Fluid Power Training

Custom Fluidpower is partnered with Outsource Institute of Technology to provide complete solutions to your training needs in Engineering (Hydraulics). This partnership brings an extensive and trusted knowledge of the industry, delivering nationally-accredited qualifications and skill sets within the scope of Outsource Institute's and Custom Fluidpower's registration.

The courses are delivered in four locations across Australia, to provide you with easier access to fluid power training. Find Custom Fluid Power at:

Newcastle, NSW 14-16 Gross Street, Carrington NSW 2294 **Mackay,**

QLD 53 Diesel Drive, Paget QLD 4740

Perth, WA 10 Aitken Way, Kewdale WA 6105

Brisbane, QLD 36 Huntington Place, Banyo QLD 4014

All training centres contain state of the art training rigs, which are used in conjunction with comprehensive face to face training and competency based practical assessments.

Custom Fluid Power have a range of options available to assist with your training needs which include non accredited MDG41 safety courses, hydraulics beginners courses and Nationally Recognised courses that can lead to achieving MEM40105 Certificate IV in Engineering (Fluid Power) offered by Outsource Institute of Technology.





Brisbane

36 Huntington Place, Banyo QLD 4014
PO Box 1143, Eagle Farm QLD 4009
P: 61 07 3307 8200
F: 61 07 3267 3777

Gladstone

11 Neil Street, Gladstone QLD 4680
PO Box 7247, Gladstone QLD 4680
P: 61 07 4977 9300
F: 61 07 4978 5520

Mackay

53 Diesel Dr, Paget QLD 4740
PO Box 10097, Mt Pleasant QLD 4740
P: 61 07 4963 7111
F: 61 07 4952 5026

Melbourne

Suite 3, Level 2, 541 Blackburn Road,
Mount Waverley VIC 3149
P: 61 03 8481 3300
F: 61 03 9486 4028

Newcastle

14 Gross St, Carrington NSW 2294
PO Box 230, Carrington NSW 2294
P: 61 02 4953 5777
F: 61 02 4940 0889

Perth

10 Aitken Way, Kewdale WA 6105
PO Box 434, Welshpool DC WA 6986
P: 61 08 9441 3200
F: 61 08 9441 3299

Port Hedland

Unit 7 lot 101 Pinnacles Street,
Wedgefield WA 6721
P: 61 08 9441 3200
F: 61 08 9441 3299

Singleton

12 Magpie Street, Singleton NSW 2330
PO Box 2001, Singleton NSW 2330
P: 61 02 6575 5500
F: 61 02 6571 2738