

2016

**The Hydraulic Shop Pty Ltd
Company Profile**



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COMPANY BACKGROUND

Paul Thompson, the Managing Director of The Hydraulic Shop was working for Hastings Deering as a Field Serviceman when he recognised the need for a specialist hydraulics service in CQ back in 1989. He started The Hydraulic Shop (THS) as a one man enterprise and currently employs 15 staff.

Hydraulics is a specialist field and as the name suggests, The Hydraulic Shop offer a full range of services including hydraulic and pneumatic supply, service and repair. We have a reputation for troubleshooting and coming up with solutions where others can't.

OUR FOCUS IS ON SOLUTIONS!

THS staff has extensive experience and they know where to source pretty much anything! We have strong relationships with suppliers of hydraulics components; with stock coming in from all over Australia as well as from overseas. We are distributors for a number of quality components including Bosch Rexroth, Ryco and Permco to name three.

Rexroth
Bosch Group



However the best parts are only as good as the fitters that use them. At THS the knowledge, skill and experience of our fitters is vital to our success. THS also endeavours to keep abreast of changing technology and ongoing training for all staff is a focus area. Paul is a Professional Member of both the International Fluid Power Society and the International Fluid Power Society of Australia Incorporated.

In order to have more control over quality and delivery time, as much as possible is done in house. As well as general workshop facilities we also have a well-equipped machine shop. The only two activities contracted out are chrome plating and ceramic densification. We have a good relationship with those suppliers and they also appreciate the need for quality and on time delivery.

We have over 6000 metres with 1200 metres under roof. The move in 2006 gave us more space which in turn has given us more efficiencies both with stock and in the workshop. There is also easy access for large and/or heavy machinery



MISSION STATEMENT

**WE ARE A PROFESSIONAL LEADER IN HYDRAULIC SALES & SERVICE
AND OUR CORE VALUES ARE:**

- Everyone is accountable
- We will only promise what we can deliver – our integrity can be relied on
- To maintain a systematic approach to ensure quality outcomes and no reworks
- Attention to Breakdowns is a priority
- Our focus is 'can do'
- We follow the principles of 5S
- We foster a no blame culture and aim for zero harm to our employees, contractors, suppliers, members of the public, the environment and the communities in which we operate

OUR PORTFOLIO OF CLIENTS INCLUDES:

THS services customers across central Queensland. We prefer to focus on the immediate area around 250 km from Rockhampton. This takes in Marlborough to the north, west to the mines at Emerald and Blackwater and south to Biloela and Moura where there are new mines opening.

THS have a broad customer base and service a diverse range of industries including mining, drilling, construction, transport, meat processing, power generation and agriculture.

Aurizon
Joy Mining
Sibelco
Anglo Coal
Rio Tinto

Stagg Drilling
Swift Australia
Rolleston Coal
Stanwell Corporation
BHP

KEY SERVICE AREAS

FILTRATION



Paul is a Certified Level II Machinery Lubricant Analyst recognised by the International Council for Machinery Lubrication and is also approved to deliver training for their certification.

THS ran trials for offline filtration on a range of plant and equipment at a CQ Mine Site for 2 years with excellent results before moving forward with production. We have developed

HYDRAFILTER INLINE and OFFLINE where we are having a 1µm beta 200 filter manufactured to our specifications which combined with our own filter head is robust enough for the mining industry. Contamination is responsible for over 90% of all hydraulic failures and research has shown that the current industry 'standard' of 10 µm is inadequate. Extension of component life together with the associated reduced maintenance 'down time' and reduced oil usage are critical benefits.

Paul has also developed Grump. Grump is a high flow high pressure grease pump that was developed to meet mining requirements to be refill grease pots on large excavators in less time that it takes to refuel them, thereby improving productivity. There is considerable potential for this product. Modifications to make it competitive with Bushranger and Lincoln pumps are currently being undertaken.

THS can also source and supply all types of hydraulic filters, housing and associated components.



PUMPS AND MOTORS

- Pumps and motors are thoroughly inspected and evaluated to offer repair options and a firm quote.
- We can test up to 450 horsepower.
- THS can provide a new genuine component or aftermarket replacement at competitive prices.
- Brand support includes Rexroth Bosch, Permco, Kawasaki, Sunstrand, Denison, Hagglunds, Eaton, Tyrone, Cat, Vickers, Danfoss, PZB, Casappa, Sai, Calzoni and Sunfab just to name a few.
- Port plate and barrel surfaces are reconditioned to like-new factory specifications.
- Care is taken to ensure contaminants are not introduced when re-assembled.
- All pumps and motors are tested to 120% of working pressure at 70°C to ensure when they are put back into service they are in working order.

CONTROL VALVES & CARTRIDGES

- THS maintain stock on hand of a large range of motion control, needle, relief, locking, over centre and cartridge valves as well as gauges.
- We can rebuild or supply control valves from basic directional through to PLC controlled multi-function proportional units.
- THS have developed a test bench to enable flow and pressure at multiple locations to be recorded which results in quicker and more accurate troubleshooting

CYLINDERS

- THS facilities include a cylinder strip down bench capable of handling some of the largest cylinders in the industry – up to 14m in length, 1m in diameter and with a 500,000 ft/lb torque capacity for nut removal.
- Disassembly and assembly is carried out by trained staff to ensure components are not damaged at any step in the process.
- Care is taken during assembly to ensure contaminants are not introduced.
- Inspection allows us to recommend and provide quotes on the best repair options.
- Resealing is done using quality seals.
- We also light-hone the barrel and finish the rod to extend seal life and maximise cylinder performance.
- Re-tubing and re-rodging is done 'in house' in our extensively equipped machine shop.
- Testing ensures there are no leaks with repaired or rebuilt cylinders – we appreciate that finding that out on the job is too late.
- Replacement cylinders can also be sourced and our staff have product knowledge across a range of brands including PTE, Baker, Alford and Nordon which ensures they source the correct cylinder for each application.
- THS also have the ability to design and manufacture cylinders to customer specifications



HOSE & FITTINGS

- THS have stock of standard sizes and commonly used hose and fittings on hand.
- Over time we have also established some of our regular customer requirements and carry stock specific to certain applications.
- Our staff have the knowledge and experience so that even if we don't have on hand what is required we can generally improvise and adapt in the case of breakdowns.
- Hoses can be made to order and high volume hose contracts can be fulfilled.
- We also have the ability to assist with the establishment of onsite hose and fitting containers and staff training in hose and fitting selection and manufacture.
- Where required hose assemblies can be manufactured to MDG41 standards



SEALS

- THS carry a comprehensive range of common seals and o-rings to suit hydraulic cylinders, pumps, motors and control valves including genuine and after-market products.
- If we don't have them we certainly know where to source them.
- We also have access to seal manufacturing if specials are required.
- Over time we have established regular customer requirements and carry stock, including complete seal kits, for specific applications.

WORKSHOP TECHNICAL CAPACITY

CYLINDER BREAKDOWN	Able to disassemble up to 14m cylinders Complete with 500,000 Ft/Lb torque multiplier
HONING	Cylinders up to 12m length by 800mm diameters
BENCH TESTING	Available for pumps and motors up to 450hp and Cylinders up to 10,000 psi
RE-BUILDING	Full facilities for Pump, Motor, Cylinder & Valves
LATHES (7)	Capable of turning up to 900mm diameter cylinders up to 7.5 meters long
DRILL	Radial arm 3.5" drill capacity 800mm to column and 1040mm spindle to base
MILLING (2)	5 hp Turret Mill
LINE-BORING	10 hp Line Boring Unit
CNC	Quick-Tec production machine with 60mm bar feeder. Can turn up to 200mm diameter and 120mm length
KEYWAY CUTTER	Capable of cutting internal keyway 50mm wide x 500mm long
DEEP HOLE DRILLING	From 5mm to 150mm diameter



KEY STAFF PROFILES

Paul Thompson – Managing Director & Technical Advisor

Paul came to Australia from New Zealand on a working holiday in 1984 and he's still here! Paul started his career with a Mechanical Trades Certificate in New Zealand in 1983 and has over 35 years mechanical and hydraulic experience.



Prior to starting THS Paul worked in Western Samoa and was responsible for road construction, drilling and crushing equipment and then worked as a Field Serviceman for Hasting Deering in CQ. Due to the distances and isolation, both these roles fostered Paul's planning and organisational skills and the ability to find workable solutions with limited resources.

Paul specialises in the design and modification of mechanically driven hydraulic components and has a reputation for troubleshooting and coming up with solutions where others can't. He also has a strong appreciation for the need for service, particularly when there is a break down.

As a result of a mechanical failure on an excavator in an open cut mining application Paul started researching lubrication and that science has now become a subject he is passionate about. He is a Professional Member of both the International Fluid Power Society and the International Fluid Power Society of Australia Incorporated and has completed all 5 levels of International Council for Machinery Lubrication training.

Paul has a strong commitment to lifelong learning and has completed numerous courses including Bosch Rexroth Industrial Hydraulics, numerous specific CAT machine courses, AutoCAD, a Certificate IV Engineering Fluid Power and is currently enrolled in a Mechanical Engineering degree at CQU. Paul also has a Certificate IV in Training and Assessing and is able to deliver hydraulic, electrical and electronics training for all levels up to and including Advanced Diploma.

Brad Hutchins – Workshop Manager



Brad joined THS in 2004 so now has 12 years specialist hydraulics experience under his belt. He stepped into the Workshop Managers position in 2012. Brad holds multiple trade qualifications including Small Motor Mechanic, Certificate IV Engineering Mechanical and a Certificate IV Engineering Fluid Power. Brad and his team focus on customer needs and demonstrate a strong appreciation for quality work delivered on time.

Ian Ramm – Workshop Leading Hand

Ian has over 30 years general mechanical experience and over 15 years specialist hydraulic experience. Ian has worked across a wide range of industries and equipment and prides himself on his high standard of workmanship. Ian has very strong analytical skills and that combined with his strong technical skills and extensive knowledge makes him a valued member of our team.



Cassey Thew – Accounts Manager



Cassey joined THS in 2007 as an Administration Assistant. In her 9 years with the company she has applied herself and gained knowledge and skills across most facets of small business including finance, marketing and administration. She has completed a Certificate III and IV in Business Administration and is currently well into a Bachelor of Accounting at CQU. Cassey is organised, manages time well and appreciates the need for accuracy and attention to detail.