

2022

SHORING CATALOGUE



GSS HIRE

**TRENCH SHORING
DEWATERING
PROPPING
EQUIPMENT HIRE**

OVERVIEW

Ground Support System Aust. (GSS Aust.) or GSS Hire was established in 2006, setting the benchmark for trenchless technology and civil excavations. We are dedicated to helping our customers deliver construction and infrastructure projects efficiently and safely by providing a broad range of groundworks equipment and services for hire and sales.

D. MacCormick

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ABOUT US

GSS Hire is a civil contractor with over 40 years of history and experience. Our reputation for excellence has created an unrivalled ability to deliver a diversified range of construction services at any project scale. Started as a supplier of shoring equipment, we have since expanded our capabilities to groundwater control, equipment hire, and water supply & management.



The equipment required to undertake your next scope of works is readily available in all our branches, Australia-wide. An extensive range of pumps, pipework, water treatment, and electrical systems are maintained and available for delivery nationwide at a phone call's notice. Not just that, we also offer for hire a vast number of trench shoring and earth moving equipment, being a complete package for your next project.

THE COMPLETE PACKAGE



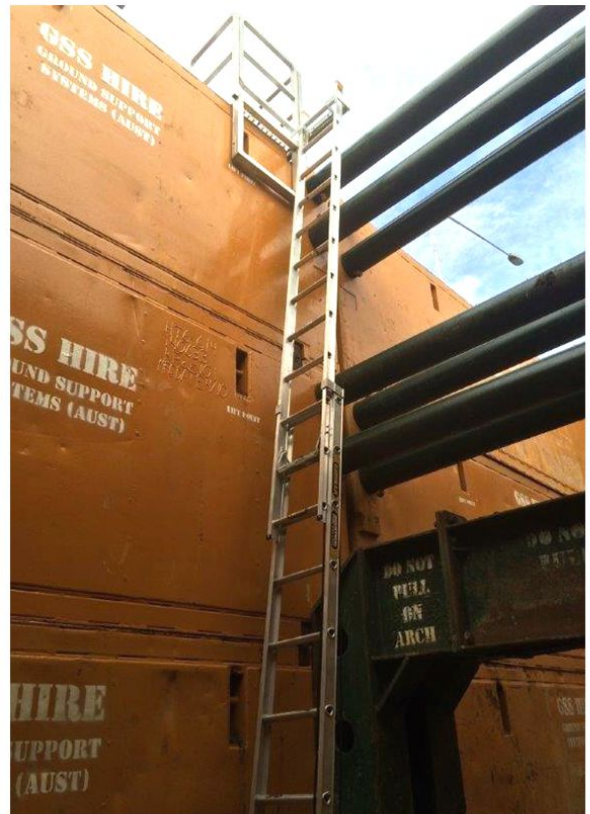
HEAVY DUTY STEEL SHORING

Ground Support Systems range of Heavy Duty trench shoring Boxes are the most versatile shoring boxes in the industry. Combining strength, durability, and robust design, allowing them to be used for all applications from basic trenching, boring/receival pits, manholes, pump stations, installing GPT,s and much more.

All Heavy Duty shoring boxes are also compatible to use with our HT6 high clearance arches for laying large diameter pipes or box culverts etc. Our Heavy Duty shoring boxes are available in various panel lengths from 3.6m, 4.3m, and 6.1m and also Australia's largest steel shoring box 7.3m long.

All Heavy Duty Shoring boxes are compatible for use with the HT6 High Clearance Arches giving 2300mm pipe clearance and up to 6.1m internal clearance between panels.

- 2.4m LOWER PANELS WITH KNIFE EDGE
- 1.8m TOP EXTENSION OR LOWER
- 1600mm PIPE CLEARANCE
- SIMPLE DESIGN FOR EASY ASSEMBLY



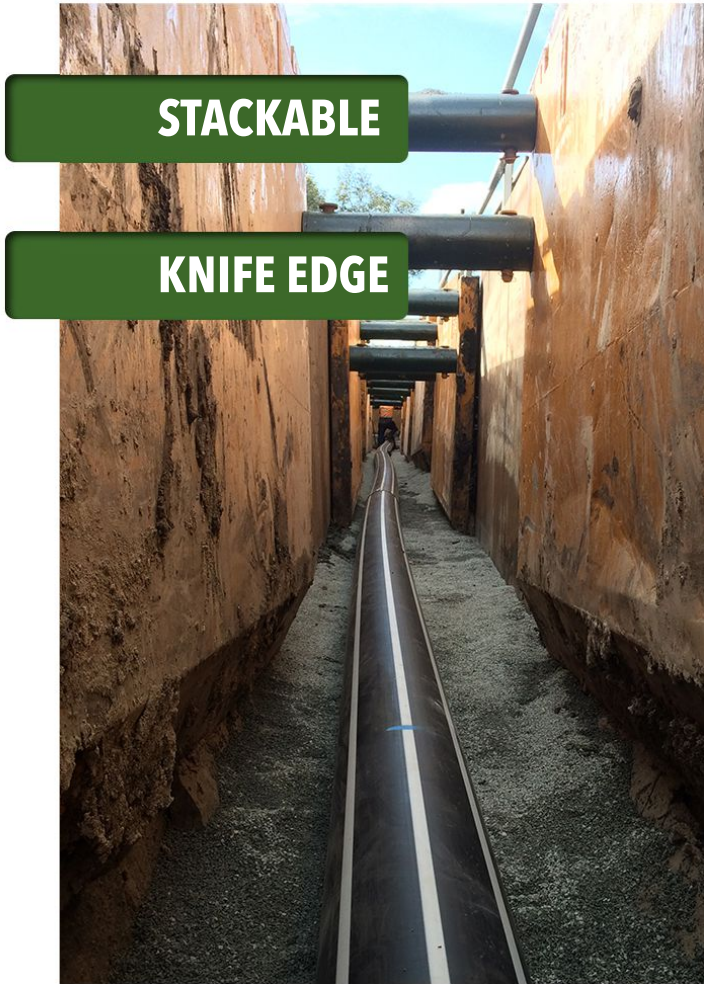
HIGHEST INDUSTRY
kPA RATING



LIFTING POINTS
FOR SAFETY

MODEL	DIMENSION (mm)	Kg.	mm.	kPa.	B Soil	C-60 Soil	C-80 Soil
XLD-812 - Lower	3600 x 2400 x 102	2631	1600	98	13.8	10.4	7.8
XLD-612 - Extension or Lower	3600 x 1800 x 102	2088	1067	117	16.5	12.4	9.4
HT6-814 - Lower	4300 x 2400 x 150	3500	1600	101	14.3	10.7	8
HT6-614 - Extension or Lower	4300 x 1800 x 150	3100	1067	101	14.3	10.7	8
HT6-820 - Lower	6100 x 2400 x 150	500	1600	75	10.4	7.9	5.8
HT6-620 - Extension or Lower	6100 x 1800 x 150	4200	1067	69	9.8	7.3	5.8
HT6-824 - Lower	7300 x 2400 x 150	5900	1600	55	7.6	5.8	4.3
HT6-624 - Extension or Lower	7300 x 1800 x 150	4800	1067	55	7.6	5.8	4.3
MHXLD-810 - Manhole Box	3000 x 2400 x 100	2650	1346	63	8.8	6.7	4.9





MEDIUM DUTY SHORING

Ground Support Systems range of Medium Duty trench shoring boxes vary from lightweight boxes to 6m shoring boxes which are available in various lengths from 1.8m, 2.4m, 3m, 3.6m, and 6m. These shoring boxes are ideal for most projects from plumbers laying small diameter pipe or carrying out repairs to larger contractors installing pipelines, manholes, boring /receival pits, etc



MODEL	DIMENSION (mm)	Kg.	PIPE CLEARANCE	kPa.
EX.HSB Lower	6000 x 2400 x 150	6500	1400	40
MDEX Extension	3600 x 1500 x 100	1750 - 2200	n/a	41
MD Lower	3600 x 2400 x 100	2950 - 3500	1100-1500	41
SMD Extension 3m	3000 x 1500 x 76	860	n/a	20
SMD Lower 3m	3000 x 2000 x 76	1000	950	20
SMD2 Lower 1.8m	1800 x 2000 x 76	880	950	60
SMD Lower 2.4m	2400 x 2000 x 76	1000	950	50

HEAVY DUTY ALUMINUM SHORING

Ground Support Systems range of Heavy Duty Aluminium trench shoring Boxes are an extremely versatile shoring system designed in house and made local in Australia. Combining Lightweight with strength and durability in a robust design allows them to be used for all applications from basic trenching, boring/recovery pits, manholes, pump stations, installing GPT's, and much more.

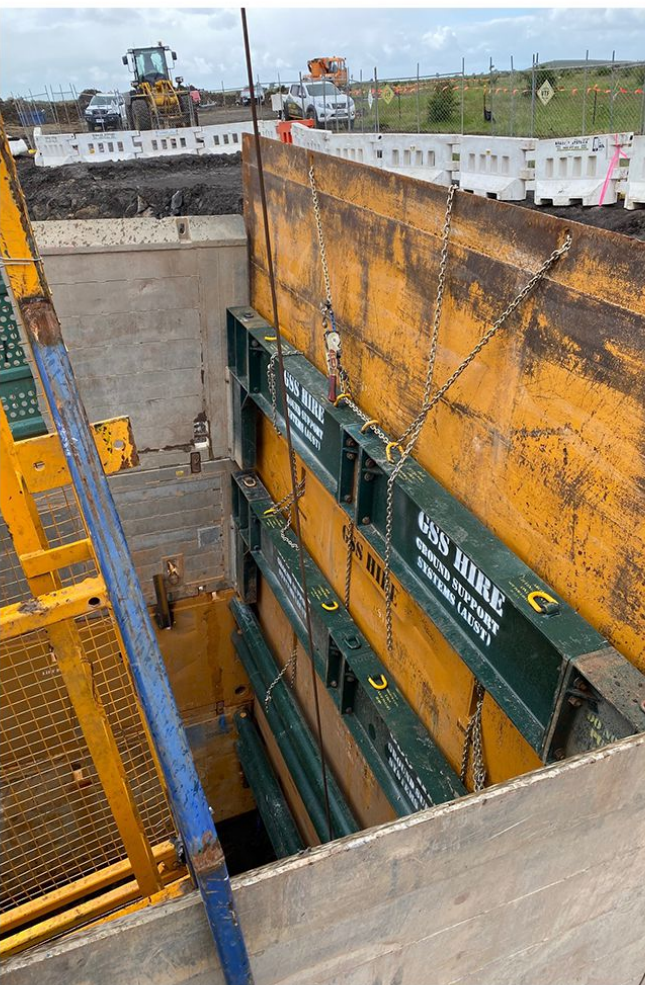
Our Heavy Duty Aluminium shoring boxes are one of the strongest on the market and are available in various panel lengths from 1.8m, 2.4m, 3.0m, 3.6m, 4.0m, 5.0m, 6.0m, and Australia's largest Aluminium shoring box 7.3m long.

MODEL	DIMENSIONS(mm)	Kg.	mm.	kPa.	B Soil	C-60 Soil	C-80 Soil
1.8m - Lower	1830 x 2400 x 127	660	1440	75	10.5	7.9	6
1.8m - Extension/Lower	1830 x 1740 x 127	550	810	75	10.5	7.9	6
2.4m - Lower	2440 x 2400 x 127	857	1440	67	9.4	7.1	5.3
2.4m - Extension/Lower	2440 x 1740 x 127	730	810	67	9.4	7.1	5.3
3.0m - Lower	3000 x 2400 x 127	1000	1440	65	9.1	6.9	5.2
3.0m - Extension/Lower	3000 x 1740 x 127	800	810	65	9.1	6.9	5.2
3.6m - Lower	3660 x 2400 x 127	1150	1440	63	8.8	6.7	5
3.6m - Extension/Lower	3660 x 1740 x 127	900	810	63	8.8	6.7	5
4.0m - Lower	4000 x 2400 x 127	1200	1440	60	8.4	6.3	4.7
4.0m - Extension/Lower	4000 x 1740 x 127	950	810	60	8.4	6.3	4.7
5.0m - Lower	5000 x 2400 x 127	1550	1440	76	10.7	8	6
5.0m - Extension/Lower	5000 x 1740 x 127	1235	810	76	10.7	8	6
6.0m - Lower	6000 x 2400 x 127	2322	1440	70	9.8	7.4	5.6
6.0m - Extension/Lower	6000 x 1740 x 127	1726	810	70	9.8	7.4	5.6
7.3m - Lower	7300 x 2400 x 137	2500	1440	55	7.7	5.8	4.4
7.3m - Extension/Lower	7300 x 1740 x 137	1900	810	55	7.7	5.8	4.4
3.0m Manhole - Lower	3000 x 2400 x 127	1350	1440	65	9.1	6.9	5.2
3.0m Manhole - Extension/Lower	3000 x 1740 x 127	1136	810	65	9.1	6.9	5.2



BUILT IN AUSTRALIA FROM AUSTRALIAN MATERIALS

All Heavy Duty Aluminium shoring boxes are also compatible with our HDA HIGH CLEARANCE ARCHES for laying large diameter pipes or box culverts. This can give an added 2400mm pipe clearance and up to 6000mm internal clearance between panels



With the ability to combine an extensive range of panel and spreader sizes, our staff can design and supply the correct solution for any sized excavation. With the ability to stack boxes and provide higher pipe clearance with supporting arches, no hole is to big or to small.

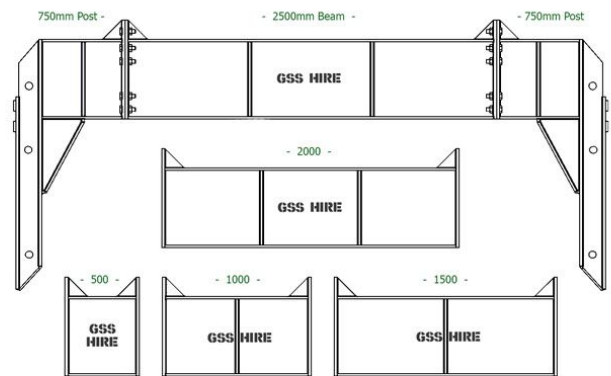
All our Heavy duty Aluminum shoring boxes are also supported with a full range of safety and lifting equipment. From handrails and access ramps to Davit systems and ladder access platforms, GSS provide the latest in shoring safety across its whole range.

HIGH CLEARANCE ARCHES



Ideal for providing additional working area for laying large diameter pipes, multiple pipes, box culverts, boring pits, pipe caps, installing GPT'S etc.

Ground Support Systems High Clearance Arches can be combined with any of the Heavy Duty 3.6m, 4.3m, 6.1m, or 7.3m long shoring boxes, giving 2300mm of clearance beneath the arch with internal dimensions from 1830mm to 6100mm of clearance between the panels.



*Depth & kPa ratings are for lateral earth pressures only and do not take any surcharges into account.

*Soil & site conditions should be assessed by a certified person prior to installation. *Conforms to Australian Standard AS 4744. 1-2000

MODEL	Kg.	SIZE mm.
ARCH-SP14EXT1 (1' Extension)	105	305
ARCH-SP14EXT2 (2' Extension)	136	610
ARCH-SP14EXT3 (3' Extension)	167	915
ARCH-SP14EXT4 (4' Extension)	198	1220
ARCH-SP14EXT1 (1' Extension)	229	1525
ARCH-SP14EXT6 (6' Extension)	260	1830
ARCH-SP14EXT1 (1' Extension)	322	2440



EXTENSION SIZE	RANGE OF ARCH (Internal)	PIPE CLEARANCE (mm)	B Soil	C-60 Soil	C-80 Soil
XLD-812/ XLD-612 _ 3600mm long	Min. 1830 - Max. 6100	2300	12.4	9.4	7.4
HT6-814/HT6-614 _ 4300mm long	Min. 1830 - Max. 6100	2300	10.5	8.1	6.4
HT6-820/HT6-620 _ 6100mm long	Min. 1830 - Max. 6100	2300	7.7	6.1	4.7
HT6-824/HT6-624 _ 7300mm long	Min. 1830 - Max. 6100	2300	6.6	5.2	4.2



HDA CLEARANCE

HDA high clearance arches are engineered, designed and built here in Australia and are to be used in conjunction with our heavy duty aluminium shoring systems. These arches will increase the under spreader clearance from 1440mm to 2400mm.

This makes them ideal for launch pits when tunnel boring or installing large diameter pipes is required, giving our shoring system an internal size from 1500mm to 6000mm.

ARCH EXTENSION	Kg.
300mm Arch Extension	85
500mm Arch Extension	106
600mm Arch Extension	116
900mm Arch Extension	146
1000mm Arch Extension	156
1200mm Arch Extension	176
1500mm Arch Extension	206
2000mm Arch Extension	257



LIGHTWEIGHT ALUMINUM SHORING

Ground Support Systems range of light weight XLAP Aluminium trench shoring boxes are designed for use with smaller excavators, backhoes and where access is limited to small machinery (eg: Back yards etc).

XLAP shoring boxes also come with removable 600mm x 600mm cut out sections in the panels which are ideal for junctions when laying pipes 90 degrees to existing pipelines or manholes.



- Lightweight and ideal for small machinery
- Removable 600mm x 600mm cut out sections
- High clearance arches available to match
- Professional Engineer design and certification

All our lightweight XLAP Aluminium shoring systems can also be used in combination with our high clearance arches that will increase the under clearance from 770mm to 1700mm.

MODEL	Kg.	PIPE CLEARANCE	kPa.	B Soil	C-60 Soil	C-80 Soil
XLAP 1.8	447	770mm	75	10.6	8	6
XLAP 2.4	480	770mm	57	8.2	6.1	4.6
XLAP 3.7	650	770mm	37	5.2	4	3

**WE OFFER SOLUTIONS
NOT JUST STEEL**

HYDRAULIC ALUMINUM SHORING



Ground Support Systems Aluminum Hydraulic Shoring are an excellent lightweight resource for working around existing utilities, supporting trench walls near structures, curbs, and/or sidewalks. They can also be used for pipe installations where machines are unavailable. The hydraulic shores can be installed and removed by hand from the surface of the trench, thus avoiding the risk of working in an unshored trench.

These hydraulic shores are used to apply pressure to trench walls to ensure extra protection for workers against cave-ins.

FOCUSED ON SAFETY

- Protect workers against cave-ins
- Applies pressure to unstable trench walls
- Limits impact around existing utilities
- Allows for installation by hand from surface



SIZE	STANDARD WIDTH (Hydraulic Rams Only)	RAM + 457mm EXTENSION WIDTH	RAM + 457mm EXTENSION WIDTH
1525mm Long Vertical Shore	560 - 910	1017 - 1387	1626 - 1976
1525mm Long Vertical Shore	711 - 1168	1168 - 1625	1777 - 2234
2135mm Long Vertical Shore	560 - 910	1017 - 1367	1626 - 1976
2135mm Long Vertical Shore	711 - 1168	1168 - 1625	1777 - 2234



SAFETY EQUIPMENT

Ground Support Systems puts importance on a safe work environment by offering a wide range of safety equipment and accessories suitable for industrial and construction site use.



DAVIT SYSTEMS

- Optional material winch
- Floor and wall mounts available
- Adjustable base for shoring system attachment
- Australian standard certified

HAND RAILS

- Engineer certified
- Easy to install modular system
- Fits to all shoring systems we have available
- Adaptable to fit steel plates and inverted shoring systems



ACCESS PLATFORMS & RAMPS

- Strong lightweight and easy to fit
- 200kgs Safe work load limit
- Self closing gate and ladder stabilizing bracket
- Assists in safe entry and egress of the excavation
- Engineer certified

* INSPECTED AND CERTIFIED IN ACCORDANCE WITH THE AUSTRALIAN STANDARD



STEEL & ROAD PLATES

Ground Support Systems carry a large selection of steel and road plates with

32mm steel road plates with Non-slip coating to help with traction. Centre lifting points enabling safe and easy placement and removal of the plates.

25mm steel plates for use in a verity of applications such as, covering trenches, pits, driveways, protection for surfaces, etc.

Steel plate used in these types of application allows traffic to flow and help with preventing accidental falls into excavations without the need to back fill, in most situations.



PLATE SIZE	25mm Steel Plates	32mm Non-slip Steel Plate
6.0 X 2.4m Steel Plate	2826 Kg	3617 Kg
4.5 X 2.4m Steel Plate	2120 Kg	2712 Kg
4.0 X 2.4m Steel Plate	1884 Kg	2411 Kg
3.0 X 2.4m Steel Plate	1413 Kg	1808 Kg
3.0 X 1.2m Steel Plate	706 Kg	904 Kg
2.4 X 2.0m Steel Plate	942 Kg	1205 Kg
2.4 X 1.5m Steel Plate	706 Kg	904 Kg



LIFTING EQUIPMENT

Ground Support Systems have Lifting Chains available for hire which are all tagged and serviced in accordance with Australian Standard AS3775. These chains come complete with shorteners and self-locking hooks and are available from 1 leg to 4 leg setups.

CHAIN SIZE	Straight	60 Deg	90 Deg	120 Deg	60 Deg Looped	90 Deg Looped	120 Deg Looped
10mm - 1 Leg	3.2 Tonnes	N/A	N/A	N/A	N/A	N/A	N/A
10mm - 4 Leg	3.2 Tonnes	5.5 Tonnes	4.5 Tonnes	3.2 Tonnes	4.1 Tonnes	3.4 Tonnes	2.4 Tonnes
13mm - 4 Leg	5.3 Tonnes	9.2 Tonnes	7.5 Tonnes	5.3 Tonnes	6.9 Tonnes	5.6 Tonnes	4.0 Tonnes
16mm - 2 & 4 Leg	8.0 Tonnes	13.8 Tonnes	11.3 Tonnes	8.0 Tonnes	10.4 Tonnes	8.5 Tonnes	6.0 Tonnes

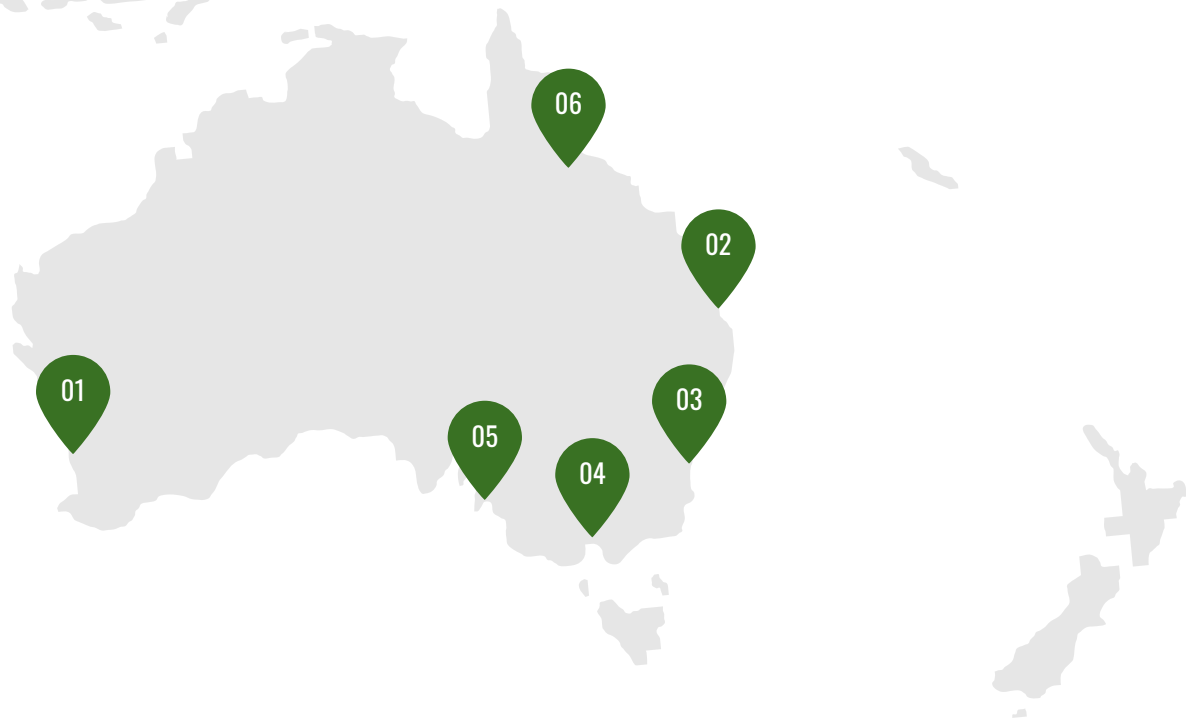
10mm 1 leg - 10mm 4 leg - 13mm 4 leg - 16mm 2 leg - 16mm 4 leg - Centre plate lifting tools.

SUPPORTING AUSTRALIA WIDE

WHAT OUR CLIENTS HAVE TO SAY

" GSS have provided RJV with reliable equipment and an extremely high level of customer service across a variety of services from well-point dewatering, pump and trench box hire. Their key staff have exceptional knowledge in the industry, are always available/contactable for support and react very quickly to any of our needs. RJV would highly recommend GSS as an industry leader in their field. "

- Szymon Lizak - RJV



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**" INDUSTRY LEADERS
IN THEIR FIELD "**

OUR OFFICE

Our long presence in the industry is confirmation of our determination and commitment to achieve excellence on every project. Our company takes pride in working both for private and Government sector projects and delivering a quality end service and product with long term value for our clients.

Whatever location, contractual arrangement and challenges, Ground Support Systems Aust aims to consistently deliver a safe, high quality and cost effective product on time and to budget.



© Josh Hockley

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