

# SPAULDING GEOPHYSICS GEOSCIENTIFIC & CONCRETE NDT EQUIPMENT HIRE CATALOGUE

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## ELECTRICAL RESISTIVITY TOMOGRAPHY (ERT) AND INDUCED POLARISATION (IP) IMAGING



**RESISTIVITY & ERT  
INDUCED POLARIZATION**  
Page # 13-17

## SEISMIC AND MASW (Multi-Channel Analysis of Surface Waves), VS30, BEDROCK MAPPING



**SEISMIC, MASW, VS30**  
Page # 18 - 22

## ENGINEERING, ENVIRONMENTAL GEOPHYSICS, VERTICAL ELECTRICAL SOUNDING (VES), EARTHING



## GROUND CONDUCTIVITY ELECTROMAGNETICS, SOIL MAPPING, GROUNDWATER, ENVIRONMENTAL



## DEEP EXPLORATION MAGNETOTELLURIC (AMT / CSAMT CONTROLLED SOURCE AUDIO MAGNETOTELLURICS)



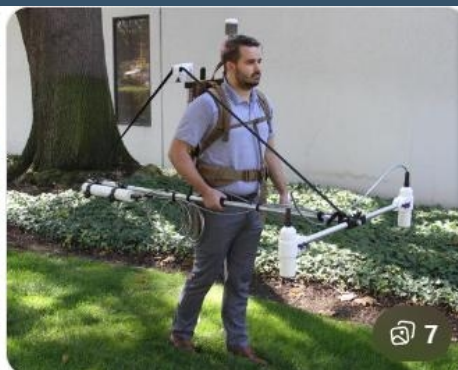
**MAGNETOTELLURICS  
(AMT / CSAMT)** Page 11-12

**ENVIRONMENTAL & ENGINEERING GEOPHYSICS**  
Page # 7 and 13-to-17



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**ENVIRONMENTAL  
MAGNETOMETERS**  
Page # 13-17

## DEEP MINERAL EXPLORATION AND DEEP GROUNDWATER INVESTIGATION TECHNOLOGIES



**MINERAL EXPLORATION  
MAGNETOMETERS** Page # 8

## DEEP GROUNDWATER AND MINERAL RESOURCES EXPLORATION (to depth 2.5 Km)



**MAGNETOTELLURIC (AMT)**  
Page # 9 -to-12

## DEEP GROUNDWATER AND MINERAL RESOURCES EXPLORATION (to depth 2.5 Km)



**DEEP INDUCED  
POLARIZATION (IP)**  
Page # 11-to-12

## DEEP GROUNDWATER AND MINERAL RESOURCES EXPLORATION (to depth 1.5 Km)



**DEEP ELECTROMAGNETICS  
(EM)**  
Page # 11-to-12



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## HIRE OUR DATA PROCESSING SERVICES AND SOFTWARE ( AMT, CSAMT, TDIP, TDEM)



POWERFUL

### EMpower V2

ADVANCED DATA MANAGEMENT and PROCESSING

### Zonge Software Programs

A focused catalog of Zonge processing and interpretation tools used across EM processing workflows.

| PROGRAM | DESCRIPTION                                                                                |
|---------|--------------------------------------------------------------------------------------------|
| CSAVGW  | Averages raw CSAMT data and supports quality control before interpretation.                |
| TDAGW   | Averages and quality-checks time-domain IP field data in multiple export formats           |
| ASTATIC | Applies MT static correction and converts survey outputs into formats such as SEG and EDI. |
| SCS2D   | Performs 2D inversion of CSAMT, AMT, and MT data to create resistivity-depth sections.     |

**DATA PROCESSING SOFTWARE**  
(AMT, CSAMT, TDIP)  
Page # 11-12

## MINERALS RESOURCES EXPLORATION (INDUCED POLARIZATION (IP))



**INDUCED POLARIZATION**  
SYSTEMS (TDIP)  
Page # 12

## MARINE MAGNETOMETERS AND INVESTIGATIONS



**MARINE**  
MAGNETOMETERS

## BOREHOLE SEISMIC, VERTICAL SEISMIC PROFILING (VSP) CROSSHOLE, PARALLEL SEISMIC



**BOREHOLE SEISMIC**  
VSP  
Page # 22

## SEISMIC SYSTEMS REFRACTION AND MASW (48, 60 & 72 CHANNELS) FOR DEEPER INVESTIGATIONS



**DEEPER MASW / SEISMIC**  
48, 60, 72 CHANNELS  
Page # 18-to-20

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## WIDE RANGE OF GROUND PENETRATING RADAR (GPR) FOR SHALLOW AND DEEP APPLICATIONS



## WIDE RANGE OF GROUND PENETRATING RADAR (GPR) ANTENNAS FREQUENCIES



GROUND PENETRATING RADAR (GPR)  
UTILITY LOCATING & ENGINEERING  
Page # 23-24

## CONCRETE SCANNING GPR GROUND PENETRATING RADAR (GPR) SLABS, FOOTINGS, BRIDGES



CONCRETE  
SCANNING (GPR)  
Page # 25-28

## IMPULSE ECHO, SONIC ECHO, LOW-STRAIN PILE INTEGRITY TESTING (PIT) PILES DEEP FOUNDATIONS



PILE INTEGRITY TESTING  
(PIT) IMPULSE ECHO  
Page # 29

## CROSSHOLE SONIC LOGGING (CSL) PILE INTEGRITY TESTING OF DEEP PILES, DIAPHRAM WALLS



CROSSHOLE SONIC  
LOGGING (CSL)  
Page # 30



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**WIDE RANGE OF CONCRETE (NDT) TESTING NON-DESTRUCTIVE TESTING AVAILABLE**



**WIDE RANGE OF CONCRETE (NDT) TESTING, CONCRETE SCANNING, CONCRETE STRENGTH (MPa) TESTING EQUIPMENT AVAILABLE**



CONCRETE NDT TESTING, CONCRETE SCANNING, ULTRASONIC PULSE VELOCITY (UPV) & ULTRASONIC PULSE ECHO  
TOMOGRAPHY (UT) TESTING, CONCRETE STRENGTH (MPa) TESTING, PILE INTEGRITY TESTING,

Page # 25-to-38

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**WIDE RANGE OF ULTRASONIC CONCRETE (NDT) TESTING, ULTRASONIC PULSE VELOCITY (UPV),  
ULTRASONIC PULSE ECHO TOMOGRAPHY (UT) TESTING EQUIPMENT AVAILABLE**



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TOMOGRAPHY (UT) TESTING, CONCRETE STRENGTH (MPa) TESTING, PILE INTEGRITY TESTING,**

**Page # 31-33**

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HIRING TASMANIA



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HIGH-RESOLUTION ULTRASONIC PULSE ECHO TOMOGRAPHY (UT) SCANNING OF CONCRETE



ULTRASONIC TOMOGRAPHY (UT) CONCRETE SCAN  
Page # 35

ULTRASONIC PULSE VELOCITY (UPV) TESTING AND GRADING OF CONCRETE STRUCTURES



UPV TESTING CONCRETE  
Page 32- 34

IN-SITU CONCRETE COMPRESSIVE STRENGTH (MPa) TESTING REBOUND SCHMIDT HAMMER, WINDSOR PROBE



CONCRETE STRENGTH (MPa) TESTING  
Page # 35-36

IN-SITU TESTING OF STRENGTH OF MASONRY, BRICK AND MORTAR JOINTS



TEST STRENGTH OF MASONRY, BRICK & MORTAR  
Page # 37

IN-SITU CONCRETE TENSILE BOND STRENGTH PULL-OFF TESTING (CONCRETE, SHOTCRETE, SLAB TOPPINGS)



CONCRETE PULL-OFF BOND STRENGTH  
Page 38



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## ELECTROMAGNETIC (EM) SYSTEMS, SOIL MAPPING AND GROUNDWATER SURVEY SYSTEMS FOR HIRE



### Applications:

- Soil Mapping and Agriculture,
- Environmental Studies,
- Contaminant Plume mapping,
- Salinity intrusion mapping and monitoring.
- Groundwater Investigation and locating Aquifers,
- Locating Buried objects, Unexploded Ordinance, Défense and Forensic investigation
- Locating Sinkholes
- Locating and mapping of Shafts, Shaft Declines and Underground Tunnels

| Item                                   | Prep<br>AUD \$<br>excl. GST | Rental<br>Day rate<br>(AUD \$)<br>excl. GST | 3 Days Minimum<br>Rental (excluding<br>Prep and Shipping)<br>excluding GST | Weekly 7 Days<br>Rental<br>Save 30% only 5<br>Days Chargeable.<br>excluding GST | Outbound<br>Shipping<br>(To customer) | Inbound<br>Shipping<br>Return from<br>Customer |
|----------------------------------------|-----------------------------|---------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------|
| Geonics EM-31 MK2                      | 265                         | 895                                         | 2,685                                                                      | 4,475                                                                           | Not included                          | Not included                                   |
| Geonics EM-34                          | 295                         | 975                                         | 2,925                                                                      | 4,875                                                                           | Not included                          | Not included                                   |
| Geonics EM-34XL (with extra deep Coil) | 295                         | 1,150                                       | 3,450                                                                      | 5,750                                                                           | Not included                          | Not included                                   |
| Geonics EM-38 MK 2                     | 265                         | 795                                         | 2,385                                                                      | 3,975                                                                           | Not included                          | Not included                                   |
| Geonics EM-38                          | 265                         | 625                                         | 1,875                                                                      | 3,125                                                                           | Not included                          | Not included                                   |
| Geonics EM-61 MK 2A                    | 265                         | 895                                         | 2,685                                                                      | 4,475                                                                           | Not included                          | Not included                                   |
| GSSI EMP-400 Profiler                  | 265                         | 895                                         | 2,685                                                                      | 4,475                                                                           | Not included                          | Not included                                   |

## ELECTROMAGNETIC (EM) SYSTEMS FOR GROUNDWATER INVESTIGATION (Depth 1m-to-75m) FOR HIRE

### Applications:

- Groundwater Investigation and locating Aquifers (Shallow to medium depth 1m-to-70m)
- Environmental Studies,
- Salinity intrusion mapping and monitoring.

| Item                                   | Prep<br>(AUD \$)<br>excl. GST | Rental<br>Day rate<br>(AUD \$)<br>excl. GST | 3 Days Minimum<br>Rental (excluding<br>Prep and Shipping).<br>excluding GST | Weekly 7 Days<br>Rental<br>Save 30% only 5<br>Days Chargeable.<br>excluding GST | Outbound<br>Shipping<br>(To customer) | Inbound<br>Shipping<br>Return From<br>Customer |
|----------------------------------------|-------------------------------|---------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------|
| Geonics EM-34                          | 295                           | 1,150                                       | 3,450                                                                       | 5,750                                                                           | Not included                          | Not included                                   |
| Geonics EM-34XL (with extra deep Coil) | 265                           | 795                                         | 2,385                                                                       | 3,975                                                                           | Not included                          | Not included                                   |

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## MAGNETOMETERS LAND AND MARINE (For Geological, Mineral Exploration, Groundwater Surveys) **FOR HIRE**

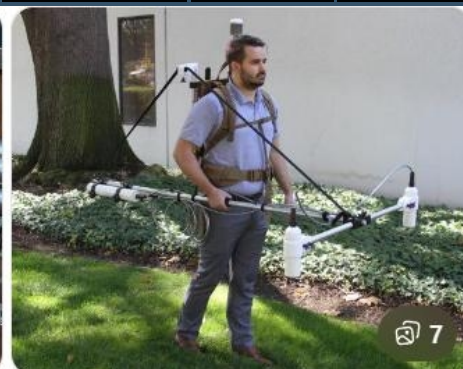
### DEEP MINERAL EXPLORATION AND DEEP GROUNDWATER INVESTIGATION TECHNOLOGIES



#### Applications:

- Geological studies, major geological systems and delineating Contact Zones, Faults etc
- Mineral exploration surveys
- Groundwater Investigation and locating Aquifers (Shallow to medium depth 1m-to-70m)
- Environmental Studies,
- Salinity intrusion mapping and monitoring.
- Locating unexploded Ordinance

| Item                                                                                                                               | Prep<br>(AUD \$)<br>excl. GST | Rental<br>Day rate<br>(AUD \$)<br>excl. GST | 3 Days Minimum<br>Rental (excluding<br>Prep and Shipping)<br>excluding GST | Weekly 7 Days<br>Rental<br>Save 30% only 5<br>Days Chargeable.<br>excluding GST | Outbound<br>Shipping<br>(To customer) | Inbound<br>Shipping<br>Return from<br>Customer |
|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------|
| GEM Systems GSM-19TW V7.0<br>Overhauser Magnetometer                                                                               | 265                           | 665                                         | 1,995                                                                      | 2,993                                                                           | Not included                          | Not included                                   |
| SCINTREX ENVI Magnetometer (single<br>sensor)                                                                                      | 265                           | 665                                         | 1,995                                                                      | 2,993                                                                           | Not included                          | Not included                                   |
| SCINTREX ENVI Magnetometer /<br>Gradiometer (Dual (2) sensor)                                                                      | 265                           | 765                                         | 2,295                                                                      | 3,443                                                                           | Not included                          | Not included                                   |
| SCINTREX ENVI Magnetometer (Single<br>sensor) with OMNI VLF (Very Low<br>Frequency) and Resistivity accessories                    | 265                           | 765                                         | 2,295                                                                      | 3,443                                                                           | Not included                          | Not included                                   |
| SCINTREX ENVI Magnetometer /<br>Gradiometer (Dual (2) sensor) with<br>OMNI VLF (Very Low Frequency) and<br>Resistivity accessories | 265                           | 845                                         | 2,535                                                                      | 3,803                                                                           | Not included                          | Not included                                   |



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## MAGNETOTELLURIC SYSTEMS (Deep Geological, Mineral Exploration, Groundwater Surveys) FOR HIRE



| Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Prep<br>(AUD \$)<br>excl. GST | Rental<br>Day rate<br>(AUD \$)<br>excl. GST | 3 Days Minimum<br>Rental (excluding<br>Prep and Shipping)<br>excluding GST | Weekly 7 Days<br>Rental<br><b>Save 33%</b> only 4.5<br>Days Chargeable.<br>excluding GST | Outbound<br>Shipping<br>(To customer) | Inbound<br>Shipping<br>Return from<br>Customer |
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| <b>Phoenix MTU-5C:</b> 5-channel ultra-wideband MT / AMT receiver system complete with accessories and two MTC-150/180 induction magnetic coils.<br><br>Capabilities: MT/AMT/BMT/long-period measurements.                                                                                                                                                                                                                                                                    | 325                           | 1,595                                       | 4,785                                                                      | 7,178                                                                                    | Not included                          | Not included                                   |
| <b>Geometrics Stratagem EH-5, AMT /</b> MT hybrid-source Magneto telluric system complete with accessories and two magnetic coils                                                                                                                                                                                                                                                                                                                                             | 325                           | 1,495                                       | 4,485                                                                      | 6,728                                                                                    | Not included                          | Not included                                   |
| <b>Zonge GDP-32 (24-bit) multi-method</b> broadband, multi-channel receiver complete with all accessories and two Coils.<br><b>Multiple Capabilities:</b> <ul style="list-style-type: none"> <li>Natural-source EM (MT/AMT/ audio magnetotelluric AMT receiver.</li> <li>Controlled-source audio magnetotelluric (CSAMT) Surveys.</li> <li>Electromagnetics (EM) Time-domain (TDEM), Frequency domain FDEM</li> <li>Time-domain induced polarisation TDIP receiver</li> </ul> | 325                           | 1,520                                       | 4,560                                                                      | 6,840                                                                                    | Not included                          | Not included                                   |



| Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Prep<br>(AUD \$)<br>excl. GST | Rental<br>Day rate<br>(AUD \$)<br>excl. GST | 3 Days Minimum<br>Rental (excluding<br>Prep and Shipping)<br>excluding GST | Weekly 7 Days<br>Rental<br><b>Save 33%</b> only 4.5<br>Days Chargeable.<br>excluding GST | Outbound<br>Shipping<br>(To customer) | Inbound<br>Shipping<br>Return from<br>Customer |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------|
| <b>Zonge GDP-32 (16-bit) multi-method</b><br>broadband, multi-channel receiver<br>complete with all accessories and two<br>Coils.<br><b>Multiple Capabilities:</b> <ul style="list-style-type: none"> <li>Natural-source EM (MT/AMT/ audio magnetotelluric AMT receiver.</li> <li>Controlled-source audio magnetotelluric (CSAMT) Surveys.</li> <li>Electromagnetics (EM) Time-domain (TDEM), Frequency domain FDEM</li> <li>Time-domain induced polarisation TDIP receiver</li> </ul> | 325                           | 1,395                                       | 4,185                                                                      | 6,278                                                                                    | Not included                          | Not included                                   |

### DEEP GROUNDWATER AND MINERAL RESOURCES EXPLORATION (to depth 2.5 Km)



#### Applications:

- Imaging geological structures from near surface to **tens or even hundreds of kilometres depth** define major features such as: Crustal layering, Lithospheric boundaries Deep faults and shear zones
- To measure and map **subsurface electrical resistivity variations** and distinguish between materials such as: Conductive zones (clays, fluids, saline water, mineralisation), Resistive zones (fresh rock, dry formations).
- To detect **deep conductive ore bodies**, especially: Sulphide deposits (e.g., copper, zinc, nickel), Graphite horizons
- To map structures controlling mineralisation (faults, alteration zones)
- Groundwater and Geothermal Exploration**, to identify: **Deep aquifers** and groundwater systems, to delineate: Recharge zones, Fluid pathways and permeability structures
- Geothermal reservoirs** (typically conductive due to hot fluids).
- Basin Analysis for Hydrocarbon Exploration**, To define sedimentary basin geometry and thickness. To map: Conductive source rocks, Structural traps and basin architecture.
- Structural Mapping**, to delineate: Faults and fractures, Shear zones, Basement topography
- Particularly useful where seismic methods are ineffective, often integrated with seismic data for petroleum exploration



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## CONTROLLED SOURCE AUDIO MAGNETOTELLURICS (CSAMT) AND INDUCED POLARISATION IP SYSTEMS FOR HIRE



### CONTROLLED SOURCE AUDIO MAGNETOTELLURICS (CSAMT) & INDUCED POLARISATION IP SYSTEMS FOR HIRE

| Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Prep<br>(AUD \$)<br>excl. GST | Rental<br>Day rate<br>(AUD \$)<br>excl. GST | 3 Days Minimum<br>Rental (excluding<br>Prep and Shipping)<br>excluding GST | Weekly 7 Days<br>Rental<br><b>Save 33%</b> only 4.5<br>Days Chargeable.<br>excluding GST | Outbound<br>Shipping<br>(To customer) | Inbound<br>Shipping<br>Return from<br>Customer |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------|
| Equipment set for Controlled-Source Audio Magnetotellurics (CSAMT) Surveys complete with accessories Set consisting of: <ul style="list-style-type: none"> <li><b>Zonge GDP-32 (24-bit) multi-method broadband, multi-channel receiver</b> complete with all accessories</li> <li>Two (2) magnetic Coil sensors Coils.</li> <li>24 Porous pot electrodes Cu-CuSO4</li> <li>Telluric Connecting Cables</li> <li>Power Generator Zonge ZMG-9 motor generator</li> <li>Zonge GGT-10 Transmitter.</li> <li>Zonge transmitter voltage regulator.</li> </ul> | 985                           | 2,195                                       | 6,585                                                                      | 9,878                                                                                    | Not included                          | Not included                                   |

### DEEP GROUNDWATER AND MINERAL RESOURCES EXPLORATION (to depth 2.5 Km)





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ZONGE GDP-32 16-Bit MULTI-METHOD ( AMT, CSAMT, TDEM, TDIP) MULTI-CHANNEL RECEIVER FOR HIRE



| CONTROLLED SOURCE AUDIO MAGNETOTELLURICS (CSAMT) & INDUCED POLARISATION IP SYSTEMS FOR HIRE                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                               |                                             |                                                                            |                                                                                   |                                       |                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------|
| Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Prep<br>(AUD \$)<br>excl. GST | Rental<br>Day rate<br>(AUD \$)<br>excl. GST | 3 Days Minimum<br>Rental (excluding<br>Prep and Shipping)<br>excluding GST | Weekly 7 Days<br>Rental<br>Save 33% only 4.5<br>Days Chargeable.<br>excluding GST | Outbound<br>Shipping<br>(To customer) | Inbound<br>Shipping<br>Return from<br>Customer |
| Equipment set for Controlled-Source<br>Audio Magnetotellurics (CSAMT)<br>Surveys complete with accessories Set<br>consisting of: <ul style="list-style-type: none"><li>Zonge GDP-32 (16-bit) multi-method<br/>broadband, multi-channel receiver<br/>complete with all accessories</li><li>Two (2) magnetic Coil sensors Coils.</li><li>24 Porous pot electrodes Cu-CuSO4</li><li>Telluric Connecting Cables</li><li>Power Generator Zonge ZMG-9 motor<br/>generator</li><li>Zonge GGT-10 Transmitter.</li><li>Zonge transmitter voltage regulator.</li></ul> | 985                           | 1,890                                       | 5,670                                                                      | 8,505                                                                             | Not included                          | Not included                                   |

DEEP GROUNDWATER AND MINERAL RESOURCES EXPLORATION (to depth 2.5 Km)





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## **ELECTRICAL RESISTIVITY TOMOGRAPHY IMAGING (ERT) AND VES Two-dimensional 2D / Three-dimensional 3D Electrical Resistivity Tomography and 1D Vertical Electrical Sounding FOR HIRE**



### **APPLICATIONS:**

#### **GROUNDWATER AND HYDROGEOLOGICAL APPLICATIONS**

- Groundwater Resources Exploration, Hydrogeological Studies, siting potential locations for Borehole Drilling.
- Delineation of aquifers and groundwater-bearing formations
- Identification of fresh vs saline water interfaces
- Mapping water table depth and recharge zones

#### **GEOTECHNICAL AND CIVIL ENGINEERING APPLICATIONS**

- Assessment of soil stratigraphy and bedrock depth
- Detection of voids, cavities, and sinkholes
- Evaluation of foundation conditions for roads, bridges, dams
- Identification of weak zones, fractures, and weathered rock

#### **ENVIRONMENTAL AND CONTAMINATION INVESTIGATIONS**

- Mapping of contaminant plumes (e.g., leachate, hydrocarbons)
- Monitoring of landfills and waste disposal sites
- Detection of salinity intrusion in coastal aquifers
- Tracking pollution migration over time (time-lapse ERT)

#### **MINING AND MINERAL RESOURCES EXPLORATION**

- Identification of ore bodies (e.g., sulphides, Manganese, Gold-associated zones)
- Mapping of alteration zones and structural controls
- Integration with Induced Polarisation (IP) for enhanced targeting
- Delineation of overburden thickness and bedrock geometry

#### **CIVIL ENGINEERING AND STRUCTURAL INVESTIGATIONS**

- Detection of moisture ingress and leakage paths
- Mapping of corrosion-prone zones in reinforced concrete
- Assessment of tunnels, bridge decks, and retaining structures
- Identification of voids behind linings or beneath slabs

#### **GEOHAZARD INVESTIGATIONS AND ASSESSMENT**

- Mapping of faults, fractures, and lithological boundaries
- Investigation of landslides and slope instability
- Detection of permafrost and frozen ground conditions
- Imaging of volcanic structures and lava flows

#### **TIME LAPSE AND TRANSIENT MONITORING**

- Monitoring groundwater recharge and seasonal variation
- Tracking contaminant movement over time
- Assessing dam seepage and embankment stability
- Evaluating remediation effectiveness

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| Item                                                                                                                                       | Prep<br>(AUD \$)<br>excl. GST | Rental<br>Day rate<br>(AUD \$)<br>excl. GST | 3 Days Minimum<br>Rental (excluding<br>Prep and Shipping)<br>excluding GST | Weekly 7 Days<br>Rental<br>Save 33% only 4.5<br>Days Chargeable.<br>excluding GST | Outbound<br>Shipping<br>(To customer) | Inbound<br>Shipping<br>Return from<br>Customer |
|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------|
| <b>ELECTRICAL RESISTIVITY TOMOGRAPHY ERT SYSTEMS</b>                                                                                       |                               |                                             |                                                                            |                                                                                   |                                       |                                                |
| <b>AGI SUPERSTING R1/IP 56 Electrodes</b> Electrical Resistivity Tomography ERT Imaging system<br>Make: Advanced Geosciences Inc., USA     | 295                           | 1,250                                       | 3,570                                                                      | 5,625                                                                             | Not included                          | Not included                                   |
| <b>AGI SUPERSTING R1/IP 28 Electrodes</b> Electrical Resistivity Tomography ERT Imaging system<br>Make: Advanced Geosciences Inc., USA     | 295                           | 995                                         | 2,985                                                                      | 4,975                                                                             | Not included                          | Not included                                   |
| Laptop loaded <b>AGI Supersting Administrator Software</b> for Survey design & file management                                             |                               | 165                                         | 495                                                                        | 743                                                                               | Not included                          | Not included                                   |
| <b>IRIS SYSCAL PRO SWITCH 72 Electrodes, 5m t/o</b> Electrical Resistivity Tomography ERT Imaging system. Make: IRIS INSTRUMENTS, France   | 295                           | 1,585                                       | 4,755                                                                      | 7,133                                                                             | Not included                          | Not included                                   |
| <b>IRIS SYSCAL PRO SWITCH 36 Electrodes, 5m t/o</b> Electrical Resistivity Tomography ERT Imaging system. Make: IRIS INSTRUMENTS, France   | 295                           | 1,290                                       | 3,870                                                                      | 5,805                                                                             | Not included                          | Not included                                   |
| Field Laptop loaded <b>Iris Elec-Pro Software</b> for Survey design and file management                                                    |                               | 195                                         | 525                                                                        | 877.5                                                                             | Not included                          | Not included                                   |
| <b>ABEM TERRAMETER LS-2 63 Electrodes, 5m t/o</b> Electrical Resistivity Tomography ERT Imaging system. Make: ABEM / Guideline Geo, Sweden | 295                           | 1,450                                       | 4,350                                                                      | 6,525                                                                             | Not included                          | Not included                                   |
| <b>ABEM TERRAMETER LS-2 42 Electrodes, 5m t/o</b> Electrical Resistivity Tomography ERT Imaging system. Make: ABEM / Guideline Geo, Sweden | 295                           | 1,285                                       | 3,855                                                                      | 5,783                                                                             | Not included                          | Not included                                   |

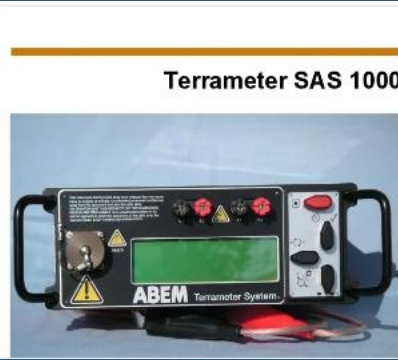
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## VERTICAL ELECTRICAL SOUNDINGS VES 4-Point Wenner **FOR HIRE**



| Item                                                                                      | Prep<br>(AUD \$)<br>excl. GST | Rental<br>Day rate<br>(AUD \$)<br>excl. GST | 3 Days Minimum<br>Rental (excluding<br>Prep and Shipping)<br>excluding GST | Weekly 7 Days<br>Rental<br>Save 30% only 5<br>Days Chargeable.<br>excluding GST | Outbound<br>Shipping<br>(To customer) | Inbound<br>Shipping<br>Return from<br>Customer |
|-------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------|
| AGI Supersting R1/IP complete with VES Cables (200m), electrodes and accessories          | 265                           | 715                                         | 2,145                                                                      | 3,218                                                                           | Not included                          | Not included                                   |
| AGI Supersting R8/IP complete with VES Cables (200m), electrodes and accessories          | 265                           | 715                                         | 2,145                                                                      | 3,218                                                                           | Not included                          | Not included                                   |
| IRIS Syscal R1 Plus complete with VES Cables (200m), electrodes and accessories           | 265                           | 595                                         | 1,785                                                                      | 2,678                                                                           | Not included                          | Not included                                   |
| AGI Sting R1 or AGI MiniSting complete with VES Cables (200m), electrodes and accessories | 265                           | 595                                         | 1,785                                                                      | 2,678                                                                           | Not included                          | Not included                                   |
| ABEM TERRAMETER SAS 300 complete with VES Cables (200m), electrodes and accessories       | 265                           | 595                                         | 1,785                                                                      | 2,678                                                                           | Not included                          | Not included                                   |
| PASI 16-GL complete with VES Cables (200m), electrodes and accessories                    | 265                           | 525                                         | 1,575                                                                      | 2,363                                                                           | Not included                          | Not included                                   |
| SCINTREX SARIS complete with VES Cables (200m), electrodes and accessories                | 265                           | 565                                         | 1,695                                                                      | 2,543                                                                           | Not included                          | Not included                                   |

## AGI ERT Accessories, Cables, Switchbox **FOR HIRE**

| Item                                                                                      | Prep<br>(AUD \$)<br>excl. GST | Rental<br>Day rate<br>(AUD \$)<br>excl. GST | 3 Days Minimum<br>Rental (excluding<br>Prep and Shipping)<br>excluding GST | Weekly 7 Days<br>Rental<br>Save 33% only 4.5<br>Days Chargeable.<br>excluding GST | Outbound<br>Shipping<br>(To customer) | Inbound<br>Shipping<br>Return from<br>Customer |
|-------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------|
| AGI R1 56 electrode SWITCHBOX with Switchbox connecting accessories                       | 225                           | 525                                         | 1,575                                                                      | 2,363                                                                             | Not included                          | Not included                                   |
| AGI R1 SWIFTBOX with connecting accessories to do 2D/ 3D ERT with AGI STING R1/ Ministing | 225                           | 425                                         | 1,275                                                                      | 1,913                                                                             | Not included                          | Not included                                   |
| 28 take-out, 5m spacing, multi-electrode Cables for AGI Supersting R1/IP                  | 225                           | 525                                         | 1,575                                                                      | 2,363                                                                             | Not included                          | Not included                                   |
| 14 take-out, 5m spacing, multi-electrode Cables for AGI Supersting R1/IP                  | 225                           | 425                                         | 1,275                                                                      | 1,913                                                                             | Not included                          | Not included                                   |
| 56 take-out, 5m spacing, multi-electrode Cables for AGI Supersting R1/IP                  | 265                           | 645                                         | 1,935                                                                      | 2,903                                                                             | Not included                          | Not included                                   |

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## AGI Supersting Admin Firmware and RES2D INV Software for Data Processing **FOR HIRE**

| Item                                                                                       | Prep<br>(AUD \$)<br>excl. GST | Rental<br>Day rate<br>(AUD \$)<br>excl. GST | 3 Days Minimum<br>Rental (excluding<br>Prep and Shipping)<br>excluding GST | Weekly 7 Days<br>Rental<br>Save 33% only 4.5<br>Days Chargeable.<br>excluding GST | Outbound<br>Shipping<br>(To customer) | Inbound<br>Shipping<br>Return from<br>Customer |
|--------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------|
| Field laptop loaded with WINSEV / RESIX <sup>TM</sup> Software for processing 1D VES Data. |                               | 165                                         | 495                                                                        | 743                                                                               | Not included                          | Not included                                   |
| Field laptop loaded with EarthImager 2D <sup>TM</sup> Software for processing 2D ERT Data. |                               | 265                                         | 795                                                                        | 1,193                                                                             | Not included                          | Not included                                   |
| Field laptop loaded with EarthImager 3D <sup>TM</sup> Software for processing 3D ERT Data. |                               | 325                                         | 975                                                                        | 1,463                                                                             | Not included                          | Not included                                   |
| Field laptop loaded with RES2D INV <sup>TM</sup> Software for processing 2D ERT Data       |                               | 265                                         | 795                                                                        | 1,193                                                                             | Not included                          | Not included                                   |
| Field laptop loaded with RES3D INV <sup>TM</sup> Software for processing 3D ERT Data       |                               | 325                                         | 975                                                                        | 1,463                                                                             | Not included                          | Not included                                   |

## IRIS SYSCAL PRO ERT Accessories, Cables, Switchbox **FOR HIRE**

| Item                                                                    | Prep<br>(AUD \$)<br>excl. GST | Rental<br>Day rate<br>(AUD \$)<br>excl. GST | 3 Days Minimum<br>Rental (excluding<br>Prep and Shipping)<br>excluding GST | Weekly 7 Days<br>Rental<br>Save 30% only 5<br>Days Chargeable.<br>excluding GST | Outbound<br>Shipping<br>(To customer) | Inbound<br>Shipping<br>Return from<br>Customer |
|-------------------------------------------------------------------------|-------------------------------|---------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------|
| IRIS SYSCAL PRO electrode Connecting box                                |                               | 195                                         | 585                                                                        | 975                                                                             | Not included                          | Not included                                   |
| 72 take-out multi-electrode Cables for Iris Syscal Pro-Switch 72 system | 265                           | 845                                         | 2,535                                                                      | 4,225                                                                           | Not included                          | Not included                                   |
| 36 take-out multi-electrode Cables for Iris Syscal Pro-Switch 72 system | 265                           | 645                                         | 1,935                                                                      | 3,225                                                                           | Not included                          | Not included                                   |
| 18 take-out multi-electrode Cables for Iris Syscal Pro-Switch 72 system | 225                           | 445                                         | 1,335                                                                      | 2,225                                                                           | Not included                          | Not included                                   |

## ABEM TERRAMETER LS-2 ERT Accessories, Cables, Switchbox **FOR HIRE**

| Item                                                                      | Prep<br>(AUD \$)<br>excl. GST | Rental<br>Day rate<br>(AUD \$)<br>excl. GST | 3 Days Minimum<br>Rental (excluding<br>Prep and Shipping)<br>excluding GST | Weekly 7 Days<br>Rental<br>Save 30% only 5<br>Days Chargeable.<br>excluding GST | Outbound<br>Shipping<br>(To customer) | Inbound<br>Shipping<br>Return from<br>Customer |
|---------------------------------------------------------------------------|-------------------------------|---------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------|
| 63 take-out multi-electrode Cables for ABEM TERRAMETER LS-2 (Cables only) | 225                           | 795                                         | 2,385                                                                      | 3,578                                                                           | Not included                          | Not included                                   |
| 42 take-out multi-electrode Cables for ABEM TERRAMETER LS-2 (Cables only) | 165                           | 625                                         | 1,875                                                                      | 2,813                                                                           | Not included                          | Not included                                   |
| 21 take-out multi-electrode Cables for ABEM TERRAMETER LS-2 (Cables only) | 165                           | 355                                         | 1,065                                                                      | 1,598                                                                           | Not included                          | Not included                                   |

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COMBINED ERT RESISTIVITY, VES AND SEISMIC REFRACTION / MASW SYSTEM Versatile, do both ERT and SEISMIC 1 system



| COMBINED ERT RESISTIVITY, VES AND SEISMIC REFRACTION / MASW SYSTEM FOR HIRE                                                                       |                               |                                             |                                                                            |                                                                                   |                                       |                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------|
| Item                                                                                                                                              | Prep<br>(AUD \$)<br>excl. GST | Rental<br>Day rate<br>(AUD \$)<br>excl. GST | 3 Days Minimum<br>Rental (excluding<br>Prep and Shipping)<br>excluding GST | Weekly 7 Days<br>Rental<br>Save 33% only 4.5<br>Days Chargeable.<br>excluding GST | Outbound<br>Shipping<br>(To customer) | Inbound<br>Shipping<br>Return from<br>Customer |
| PASI 16SG-N24Combine Electrical<br>Resistivity (ERT), Vertical Electrical Sounding<br>(VES), SEISMIC Survey system (Seismic<br>Refraction, MASW). | 295                           | 1,495                                       | 4,485                                                                      | 6,728                                                                             | Not included                          | Not included                                   |



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## SEISMIC, MASW SURVEY SYSTEMS FOR HIRE

### SEISMIC AND MASW (Multi-Channel Analysis of Surface Waves), VS30, BEDROCK MAPPING



- Seismic Refraction,
- Multi-Channels Analysis of Surface Waves (MASW),
- Seismic Reflection,
- Vertical Seismic Profiling,
- Parallel Seismic and
- HVSr and Nakamura (Horizontal-to-Vertical Spectral Ratio (HVSr) passive-seismic.

#### MASW Seismic Survey (Multichannel Analysis of Surface Waves)

**MASW answers: "How stiff is the ground, defines Bed rock profile, how deep are the layers, and how will the soil behave under load or earthquakes?"**

The **Multichannel Analysis of Surface Waves (MASW)** method is widely used in geotechnical, environmental, and engineering investigations to characterize subsurface conditions based on **shear wave velocity (Vs)**.

#### Applications:

- **Determine Shear Wave Velocity (Vs) Profile** establish Vs vs depth profile of the subsurface.
- **Determine Stiffness and Modulus parameters** Key parameter for Soil stiffness, Elastic properties Dynamic behavior
- **Site Classification for Seismic Design** Determine Vs30 (average shear wave velocity in top 30 m). Classifies sites (e.g., rock, stiff soil, soft soil) for earthquake design.
- **Identify Subsurface Stratigraphy** Delineate different soil and rock layers, Detect: Layer thickness, Depth to bedrock, Weak or soft zones
- **Evaluate Soil Stiffness and Engineering Properties**, Estimate: Shear modulus (G), Young's modulus (E), Ripability coefficient.
- **Detect Subsurface Anomalies** Identify: Voids, Cavities, Loose zones, Weathered layers
- **Support Seismic Hazard and Response Analysis** Input for: Ground response analysis, Liquefaction assessment, Helps predictive modelling of seismic response of the ground.
- **Non-Invasive Site Investigation**, provides a **cost-effective, non-destructive** alternative to drilling, Covers larger areas quickly.
- Calibrate geotechnical models, accurately infill data between boreholes, Integrate with other methods (e.g., ERT, boreholes, CPT)



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## 24 CHANNELS SEISMIC , MASW SYSTEMS WITH 24 Ch. GEOPHONE LEADER CABLE FOR HIRE

| Item                                                                                                                                                                  | Prep<br>(AUD \$)<br>excl. GST | Rental<br>Day rate<br>(AUD \$)<br>excl. GST | 3 Days Minimum<br>Rental (excluding<br>Prep and Shipping)<br>excluding GST | Weekly 7 Days<br>Rental<br>Save 33% only 4.5<br>Days Chargeable.<br>excluding GST | Outbound<br>Shipping<br>(To customer) | Inbound<br>Shipping<br>Return from<br>Customer |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------|
| <b>Geometrics Geode 24 Channels</b> Seismic system complete with 4.5 Hz frequency Geophones for MASW / Refraction.<br><b>Geophones on Leader cable not Streamer</b>   | 295                           | 795                                         | 2,385                                                                      | 3,578                                                                             | Not included                          | Not included                                   |
| <b>Geometrics ES-3000 24 Channels</b> Seismic system complete with 4.5 Hz frequency Geophones for MASW / Refraction.<br><b>Geophones on Leader cable not Streamer</b> | 295                           | 785                                         | 2,385                                                                      | 3,578                                                                             | Not included                          | Not included                                   |
| <b>DOLANG DBS280B 24 Channels</b> Seismic system complete with 4.5 Hz frequency Geophones for MASW / Refraction.                                                      | 295                           | 695                                         | 2,085                                                                      | 3,128                                                                             | Not included                          | Not included                                   |
| <b>DOLANG DBS-2T 24 Channels</b> Seismic system complete with 4.5 Hz frequency Geophones for MASW / Refraction.<br><b>DBST-2T capable of HVSR / Passive Seismic</b>   | 295                           | 695                                         | 2,085                                                                      | 3,128                                                                             | Not included                          | Not included                                   |

## 24 CHANNELS SEISMIC SYSTEMS WITH 24 Ch. LAND STREAMER FOR HIRE

| Item                                                                                                                                         | Prep<br>(AUD \$)<br>excl. GST | Rental<br>Day rate<br>(AUD \$)<br>excl. GST | 3 Days Minimum<br>Rental (excluding<br>Prep and Shipping)<br>excluding GST | Weekly 7 Days<br>Rental<br>Save 33% only 4.5<br>Days Chargeable.<br>excluding GST | Outbound<br>Shipping<br>(To customer) | Inbound<br>Shipping<br>Return from<br>Customer |
|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------|
| <b>MAE X824S 24-Channels</b> Seismic Refraction and MASW Survey System complete with 4.5 Hz frequency <b>with 24 Geophones Land Streamer</b> | 295                           | 785                                         | 2,355                                                                      | 3,533                                                                             | Not included                          | Not included                                   |

## 48 CHANNELS SEISMIC SYSTEMS FOR SEISMIC REFRACTION AND MASW FOR HIRE

| Item                                                                                                                                                    | Prep<br>(AUD \$)<br>excl. GST | Rental<br>Day rate<br>(AUD \$)<br>excl. GST | 3 Days Minimum<br>Rental (excluding<br>Prep and Shipping)<br>excluding GST | Weekly 7 Days<br>Rental<br>Save 33% only 4.5<br>Days Chargeable.<br>excluding GST | Outbound<br>Shipping<br>(To customer) | Inbound<br>Shipping<br>Return from<br>Customer |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------|
| <b>MAE X824S 48-Channels</b> Seismic Refraction and MASW Survey System complete with 4.5 Hz frequency.<br><b>Geophones on Leader cable not Streamer</b> | 295                           | 1,180                                       | 3,540                                                                      | 5,310                                                                             | Not included                          | Not included                                   |

## 48 CHANNEL SEISMIC SYSTEMS WITH 48 Ch. LAND STREAMERS FOR HIRE

| Item                                                                                                                                        | Prep<br>(AUD \$)<br>excl. GST | Rental<br>Day rate<br>(AUD \$)<br>excl. GST | 3 Days Minimum<br>Rental (excluding<br>Prep and Shipping)<br>excluding GST | Weekly 7 Days<br>Rental<br>Save 33% only 4.5<br>Days Chargeable.<br>excluding GST | Outbound<br>Shipping<br>(To customer) | Inbound<br>Shipping<br>Return from<br>Customer |
|---------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------|
| <b>MAE X824S 48-Channels</b> Seismic Refraction and MASW Survey System complete with 4.5 Hz frequency <b>with 48 Geophone Land Streamer</b> | 295                           | 1,330                                       | 3,990                                                                      | 5,985                                                                             | Not included                          | Not included                                   |



**72 CHANNELS SEISMIC SYSTEM for Deeper High-resolution investigations, High Production Rate, wider Coverage, (where ordinary 24 Channel systems are inadequate and limited to required depth of investigation, resolution and production rate)**



**72 CHANNELS SEISMIC SYSTEM FOR MASW and SEISMIC REFRACTION FOR HIRE**

| Item                                                                                                                                          | Prep<br>(AUD \$)<br>excl. GST | Rental<br>Day rate<br>(AUD \$)<br>excl. GST | 3 Days Minimum<br>Rental (excluding<br>Prep and Shipping)<br>excluding GST | Weekly 7 Days<br>Rental<br>Save 33% only 4.5<br>Days Chargeable.<br>excluding GST | Outbound<br>Shipping<br>(To customer) | Inbound<br>Shipping<br>Return from<br>Customer |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------|
| MAE X824S 72-Channels Seismic Refraction and MASW Survey System complete with 4.5 Hz frequency with 72 Geophones on Leader cable not Streamer | 350                           | 1,650                                       | 4,950                                                                      | 7,425                                                                             | Not included                          | Not included                                   |

**60 CHANNELS SEISMIC SYSTEM for Deeper High-resolution investigations, High Production Rate, wider Coverage, (where ordinary 24 Channel systems are inadequate and limited to required depth of investigation, resolution and production rate)**

**60 CHANNELS SEISMIC SYSTEM FOR MASW and SEISMIC REFRACTION FOR HIRE**

|                                                                                                                                                                |     |       |       |       |              |              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------|-------|-------|--------------|--------------|
| GEOMETRICS STRATAVIEW R-60 60-Channels Seismic Refraction and MASW Survey System complete with 4.5 Hz frequency with 60 Geophones on Leader cable not Streamer | 295 | 1,050 | 3,150 | 4,725 | Not included | Not included |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------|-------|-------|--------------|--------------|

**SEISMIC SOURCES FOR HIRE**

|                                               |     |     |       |       |              |              |
|-----------------------------------------------|-----|-----|-------|-------|--------------|--------------|
| PEG-40 Accelerated Weight Drop Seismic Source | 295 | 655 | 1,965 | 2,948 | Not included | Not included |
| Seismic Source Wireless Trigger System        | 125 | 265 | 795   | 1,193 | Not included | Not included |
| Geodevice AWD-33PS Seismic Source             | 295 | 680 | 2,040 | 3,060 | Not included | Not included |
| Borehole S-wave Source                        | 195 | 625 | 1,875 | 2,813 | Not included | Not included |

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| GEOPHONE LEADER CABLES AND GEOPHONES FOR HIRE                                |     |     |       |       |              |              |
|------------------------------------------------------------------------------|-----|-----|-------|-------|--------------|--------------|
| 24-Ch Cable, 10m spacing, split spring clips for Geometrics Geode or ES-3000 | 185 | 355 | 1,065 | 1,598 | Not included | Not included |
| 24-Ch Cable, 5m spacing, split spring clips for Geometrics Geode or ES-3000  | 185 | 355 | 1,065 | 1,598 | Not included | Not included |
| 12-Ch Cable, 5m spacing, split spring clips for Geometrics Geode or ES-3000  | 185 | 285 | 855   | 1,283 | Not included | Not included |
| GEOPHONES FOR HIRE                                                           |     |     |       |       |              |              |
| 4.5 Hz Geophone set of 24                                                    | 150 | 275 | 825   | 1,238 | Not included | Not included |
| 4.5 Hz Geophone set of 48                                                    | 150 | 475 | 1,425 | 2,138 | Not included | Not included |

### HSVR / NAKAMURA / PASSIVE SEISMIC SYSTEMS FOR HIRE

The Horizontal-to-Vertical Spectral Ratio (HVSr) is a passive-seismic technique that uses a single three-component seismometer to measure ambient background noise to estimate subsurface properties. By calculating the ratio between horizontal and vertical noise components, it determines the fundamental resonance frequency of the ground, which is crucial for identifying bedrock depth, assessing seismic hazards, and mapping site response

#### Key Applications of HSVR:

- **Geotechnical & Civil Engineering:** Assessing ground resonance for building safety, particularly to avoid structural damage during earthquakes.
- **Bedrock Mapping:** Estimating depth to bedrock and characterizing soft sedimentary layers
- **Groundwater Exploration:** Identifying potential paleochannels, which are often used for sourcing water.
- **Seismic Microzonation:** Analyzing local site conditions for earthquake risk.



### HSVR / NAKAMURA / PASSIVE SEISMIC SYSTEMS FOR HIRE

| Item                                                                                                                                                                                                                    | Prep<br>(AUD \$)<br>excl. GST | Rental<br>Day rate<br>(AUD \$)<br>excl. GST | 3 Days Minimum<br>Rental (excluding<br>Prep and Shipping)<br>excluding GST | Weekly 7 Days<br>Rental<br>Save 30% only 5<br>Days Chargeable.<br>excluding GST | Outbound<br>Shipping<br>(To customer) | Inbound<br>Shipping<br>Return from<br>Customer |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------|
| <b>MAE S2S3 3D-Seismic Sensor 2 Hz, frequency for HSVR Surveys</b> including accessories sensor connection cable 3m long + Laptop loaded with S2S3 firmware for HSVR data acquisition.                                  | 155                           | 645                                         | 1,935                                                                      | 2,902.5                                                                         | Not included                          | Not included                                   |
| <b>MAE ST3 3-Channels 24 Bit Seismograph</b> with integrated 3D sensor 2 Hz, frequency complete with accessories including sensor connection cable 3m long + Laptop loaded with ST3 firmware for HSVR data acquisition. | 155                           | 645                                         | 1,935                                                                      | 2,902.5                                                                         | Not included                          | Not included                                   |
| <b>Dolang JEATROM 0,1Hz-to-2 Hz HSVR Survey System.</b>                                                                                                                                                                 | 155                           | 595                                         | 1,785                                                                      | 2,678                                                                           | Not included                          | Not included                                   |
| Laptop loaded with <b>EasyHVSr™ Software</b> for processing HSVR data                                                                                                                                                   | 125                           | 345                                         | 1,035                                                                      | 1,553                                                                           | Not included                          | Not included                                   |

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## **BOREHOLE SEISMIC PARALLEL SEISMIC SYSTEMS (PS) AND VERTICAL SEISMIC PROFILING (VSP) FOR HIRE**

The **Parallel Seismic (PS)** method is a non-destructive geophysical technique used mainly to determine / verify depth-extent, locate Toe-of-pile, Continuity, Voids and integrity of **deep foundations, Piles, Piers, Bridge abutments, telecom towers.**

## **BOREHOLE SEISMIC, VERTICAL SEISMIC PROFILING (VSP) CROSSHOLE, PARALLEL SEISMIC**



### **Key Applications of PARALLEL SEISMIC**

- Determine the Depth extent (Length) / embedded depth of Deep Foundations footing, Pier, Pile or Shaft
- Determine and Verify Toe-of-pile or end of the foundation footing.
- Determine and Verify Lithology / Material properties in which the Toe-of-Pile was founded.
- As-built Structural Verification Audit of deep foundation structures Bridge Abutments, Railway, Telecom Towers, Pier columns.
- Provide Information for Engineering Design / Audit or Loading Decisions for Bridge Abutments, Bridge Piers, Telecom Towers, Dam Walls

## **BOREHOLE SEISMIC, PARALLEL SEISMIC, VSP FOR HIRE**

| Item                                                                                                                                                                                                                   | Prep<br>(AUD \$)<br>excl. GST | Rental<br>Day rate<br>(AUD \$)<br>excl. GST | 3 Days Minimum<br>Rental (excluding<br>Prep and Shipping)<br>excluding GST | Weekly 7 Days<br>Rental<br>Save 30% only 5<br>Days Chargeable.<br>excluding GST | Outbound<br>Shipping<br>(To customer) | Inbound<br>Shipping<br>Return from<br>Customer |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------|
| <b>VERTICAL SEISMIC PROFILING (VSP) SYSTEMS FOR HIRE</b>                                                                                                                                                               |                               |                                             |                                                                            |                                                                                 |                                       |                                                |
| BOREHOLE SIESMIC SYSTEM Composed of:<br><b>GeoStuff BHG-3 3-Component triaxial Bore Geophone</b> , Geophone Controller, connecting accessories and Geometrics ES-3000 Seismograph recorder + Land Hammer Source.       | 295                           | 1,296                                       | 3,888                                                                      | 5,832                                                                           | Not included                          | Not included                                   |
| <b>PARALLEL SEISMIC (PS) SYSTEMS FOR HIRE</b>                                                                                                                                                                          |                               |                                             |                                                                            |                                                                                 |                                       |                                                |
| BOREHOLE SIESMIC SYSTEM Composed of:<br>GeoStuff BHG-3 3-Component triaxial Bore Geophone, Geophone Controller, connecting accessories and Geometrics ES-3000 Seismograph recorder + Land Hammer Source. complete with | 295                           | 1,296                                       | 3,888                                                                      | 5,832                                                                           | Not included                          | Not included                                   |
| <b>OTHER COMPATIBLE TECHNOLOGIES FOR HIRE</b>                                                                                                                                                                          |                               |                                             |                                                                            |                                                                                 |                                       |                                                |
| <b>Pile Dynamics Inc (PDI) Low Strain Sonic Impact Echo</b> , Pile integrity Testing (PIT) system for verifying Depth of Piles                                                                                         | 195                           | 685                                         | 2,055                                                                      | 3,082.5                                                                         | Not included                          | Not included                                   |

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**GROUND PENETRATING RADAR (GPR) FOR HIRE**

## WIDE RANGE OF GROUND PENETRATING RADAR (GPR) FOR SHALLOW AND DEEP APPLICATIONS



### Applications:

- GPR Scanning and Locating of Underground Utility Services (Pipes, Cables, Gas, Power, Drains, Sewers, Stormwater)
- GPR Scanning, Locating Buried objects, Unexploded Ordinance, Défense and Forensic investigation.
- GPR Scanning, Locating and Mapping of Unknown Graves, Burial sites
- GPR Scanning, Locating Buried objects, Unexploded Ordinance, Défense and Forensic investigation
- GPR Scanning, Locating Sinkholes
- Locating and mapping of Shafts, Shaft Declines and Underground Tunnels
- Environmental Studies, Contaminant Plume mapping (Shallow to medium depth 1m-to-15m)

### GSSI GPR and GSSI ANTENNAS FOR HIRE

| Item                                                                                             | Prep<br>(AUD \$)<br>excl. GST | Rental<br>Day rate<br>(AUD \$)<br>excl. GST | 3 Days Minimum<br>Rental (excluding<br>Prep and Shipping)<br>excluding GST | Weekly 7 Days<br>Rental<br>Save 30% only 5<br>Days Chargeable.<br>excluding GST | Outbound<br>Shipping<br>(To customer) | Inbound<br>Shipping<br>Return from<br>Customer |
|--------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------|
| GSSI SCAN-DF 300/ 800 GPR with 300 and 800 MHz dual frequency antenna for Deep & Shallow targets | 265                           | 695                                         | 2,085                                                                      | 3,128                                                                           | Not included                          | Not included                                   |
| GSSI HS350 Hyper-stacking frequency antenna for Deep & Shallow targets                           | 265                           | 695                                         | 2,085                                                                      | 3,128                                                                           | Not included                          | Not included                                   |
| GSSI SIR3000 GPR with 400MHz frequency Antenna                                                   | 265                           | 625                                         | 1,875                                                                      | 2,813                                                                           | Not included                          | Not included                                   |
| GSSI SIR3000 GPR with 270MHz frequency Antenna                                                   | 265                           | 575                                         | 1,725                                                                      | 2,588                                                                           | Not included                          | Not included                                   |
| GSSI SIR3000 GPR with 200MHz frequency Antenna                                                   | 265                           | 655                                         | 1,965                                                                      | 2,948                                                                           | Not included                          | Not included                                   |
| GSSI SIR3000 GPR with 900MHz frequency Antenna (for Scanning Concrete footings / Strip footings) | 265                           | 575                                         | 1,725                                                                      | 2,588                                                                           | Not included                          | Not included                                   |

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## MALA GPR and MALA ANTENNAS FOR HIRE

|                                                                          |     |       |       |       |              |              |
|--------------------------------------------------------------------------|-----|-------|-------|-------|--------------|--------------|
| MALA X3M RAMAC GPR with 500MHz frequency Antenna complete with 4wcart    | 265 | 645   | 1,935 | 2,903 | Not included | Not included |
| MALA X3M RAMAC GPR with 250MHz frequency Antenna complete with 4wcart    | 265 | 645   | 1,935 | 2,903 | Not included | Not included |
| MALA X3M RAMAC GPR with 800MHz frequency Antenna complete with 4wcart    | 265 | 585   | 1,755 | 2,633 | Not included | Not included |
| Mala Gx80 GPR with 80MHz frequency HDR Antenna (for deep investigations) | 295 | 1,150 | 3,450 | 5,175 | Not included | Not included |

## WIDE RANGE OF GROUND PENETRATING RADAR (GPR) ANTENNAS FREQUENCIES



## LOW FREQUENCY GROUND PENETRATING RADAR (GPR) for Deeper Investigations limited to ordinary GPR

### Applications:

- Deep GPR investigations to depth 1-to-13m (Geological, Deep shafts, Locating Buried objects, underground Tunnels)
- GPR Mapping Shallow Bedrock Profile and Floaters, Depth to Bedrock studies
- Locating and mapping of Shafts, Shaft Declines and Underground Tunnels
- Environmental Studies



## LOW FREQUENCY GROUND PENETRATING RADAR (GPR) FOR HIRE

| Item                                                                     | Prep<br>(AUD \$)<br>excl. GST | Rental<br>Day rate<br>(AUD \$)<br>excl. GST | 3 Days Minimum<br>Rental (excluding<br>Prep and Shipping)<br>excluding GST | Weekly 7 Days<br>Rental<br>Save 33% only 4.5<br>Days Chargeable.<br>excluding GST | Outbound<br>Shipping<br>(To customer) | Inbound<br>Shipping<br>Return from<br>Customer |
|--------------------------------------------------------------------------|-------------------------------|---------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------|
| Mala Gx80 GPR with 80MHz frequency HDR Antenna (for deep investigations) | 295                           | 1,150                                       | 3,450                                                                      | 5,175                                                                             | Not included                          | Not included                                   |
| GSSI SIR3000 GPR with 200MHz frequency Antenna                           | 265                           | 655                                         | 1,965                                                                      | 2,948                                                                             | Not included                          | Not included                                   |

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**WIDE RANGE OF CONCRETE (NDT) TESTING NON-DESTRUCTIVE TESTING AVAILABLE**



**WIDE RANGE OF CONCRETE (NDT) TESTING, CONCRETE SCANNING, CONCRETE STRENGTH (MPa) TESTING EQUIPMENT AVAILABLE**



**CONCRETE NDT TESTING, CONCRETE SCANNING, ULTRASONIC PULSE VELOCITY (UPV) & ULTRASONIC PULSE ECHO TOMOGRAPHY (UT) TESTING, CONCRETE STRENGTH (MPa) TESTING, PILE INTEGRITY TESTING,**

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## CONCRETE SCANNING PULSE GROUND PENETRATING RADAR (GPR) for Concrete Scanning, Locating Services in Concrete, Structural Defects Assessments and As-built Structural Verifications. **FOR HIRE**

### Applications:

- Scanning Concrete structures, Slabs, Columns, Beams, Footings, Bridges
- Determining Concrete Cover to Steel Reinforcement.
- As-built Structural verification Scans Scanning Steel reinforcement, Post-tension Cables, Pre-cast Cables, Tendons
- Structural Audits Scans Scanning Steel reinforcement, Post-tension Cables, Pre-cast Cables, Tendons
- Scanning Foundation Footings

## CONCRETE SCANNING GPR GROUND PENETRATING RADAR (GPR) SLABS, FOOTINGS, BRIDGES



## CONCRETE SCANNING PULSE GROUND PENETRATING RADAR (GPR) **FOR HIRE**

| Item                                                      | Prep<br>(AUD \$)<br>excl. GST | Rental<br>Day rate<br>(AUD \$)<br>excl. GST | 3 Days Minimum<br>Rental (excluding<br>Prep and Shipping)<br>excluding GST | Weekly 7 Days<br>Rental<br>Save 32% only 4.5<br>Days Chargeable.<br>excluding GST | Outbound<br>Shipping<br>(To customer) | Inbound<br>Shipping<br>Return from<br>Customer |
|-----------------------------------------------------------|-------------------------------|---------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------|
| GSSI STRUCTURESCAN MINI XT                                | 225                           | 765                                         | 2,295                                                                      | 3,443                                                                             | Not included                          | Not included                                   |
| GSSI STRUCTURE FLEX-NX                                    | 225                           | 885                                         | 2,655                                                                      | 3,983                                                                             | Not included                          | Not included                                   |
| GSSI Structure Scan Mini HR 3D                            | 225                           | 625                                         | 1,875                                                                      | 2,813                                                                             | Not included                          | Not included                                   |
| Mala CX11 3D Concrete Imaging System<br>w/ 2.6GHz antenna | 225                           | 545                                         | 1,635                                                                      | 2,453                                                                             | Not included                          | Not included                                   |

## SCANNING FOOTINGS (Deeper than ordinary Concrete Scanners) **FOR HIRE**

|                                                                                                                            |     |     |       |       |              |              |
|----------------------------------------------------------------------------------------------------------------------------|-----|-----|-------|-------|--------------|--------------|
| GSSI SIR3000 GPR with 900MHz<br>frequency Antenna (for Scanning Concrete<br>footings / Strip footings)                     | 225 | 595 | 1,785 | 2,678 | Not included | Not included |
| MALA X3M RAMAC GPR with 800MHz<br>frequency Antenna (for Scanning Concrete<br>footings / Strip footings)                   | 225 | 595 | 1,785 | 2,678 | Not included | Not included |
| MALA CX11 or CX 12 Concrete Scanner<br>with 1200MHz frequency Antenna (for<br>Scanning Concrete footings / Strip footings) | 225 | 595 | 1,785 | 2,678 | Not included | Not included |

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**SPECIFIC GROUND PENETRATING RADAR (GPR) for Scanning Shallow Foundation Footings and Strip Footings (where ordinary high-frequency Concrete Scanning GPR's scan depth and resolution are limited) FOR HIRE**

## Applications:

- Scanning shallow to medium foundation footings (0-to-1.2m), Pad footing, Strip footings, Slab Beams, Raft Foundations, main Slab Beams and Ribs. (where ordinary Concrete scanners are limited in depth of illumination).
- Scanning and Determining Depth of Footings.
- Detecting Blinding Layers or Sub-base layers under footings.
- Scanning thick Concrete structures (where ordinary scanners are limited in depth of illumination).

| SCANNING FOOTINGS (Deeper than ordinary Concrete Scanners) FOR HIRE                                                  |                               |                                             |                                                                            |                                                                                   |                                       |                                                |
|----------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------|
| Item                                                                                                                 | Prep<br>(AUD \$)<br>excl. GST | Rental<br>Day rate<br>(AUD \$)<br>excl. GST | 3 Days Minimum<br>Rental (excluding<br>Prep and Shipping)<br>excluding GST | Weekly 7 Days<br>Rental<br>Save 32% only 4.5<br>Days Chargeable.<br>excluding GST | Outbound<br>Shipping<br>(To customer) | Inbound<br>Shipping<br>Return from<br>Customer |
| GSSI SIR3000 GPR with 900MHz frequency Antenna (for Scanning Concrete footings / Strip footings)                     | 225                           | 595                                         | 1,785                                                                      | 2,678                                                                             | Not included                          | Not included                                   |
| MALA X3M RAMAC GPR with 800MHz frequency Antenna (for Scanning Concrete footings / Strip footings)                   | 225                           | 595                                         | 1,785                                                                      | 2,678                                                                             | Not included                          | Not included                                   |
| MALA CX11 or CX 12 Concrete Scanner with 1200MHz frequency Antenna (for Scanning Concrete footings / Strip footings) | 225                           | 595                                         | 1,785                                                                      | 2,678                                                                             | Not included                          | Not included                                   |

**GROUND PENETRATING RADAR (GPR) Antennas and Accessories for Customised / Task-specific Jobs. FOR HIRE**

Available as stand-alone components.

| Item                                           | Prep<br>(AUD \$)<br>excl. GST | Rental<br>Day rate<br>(AUD \$)<br>excl. GST | 3 Days Minimum<br>Rental (excluding<br>Prep and Shipping)<br>excluding GST | Weekly 7 Days<br>Rental<br>Save 32% only 4.5<br>Days Chargeable.<br>excluding GST | Outbound<br>Shipping<br>(To customer) | Inbound<br>Shipping<br>Return From<br>Customer |
|------------------------------------------------|-------------------------------|---------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------|
| <b>GPR CONSOLES AND SCREENS</b>                |                               |                                             |                                                                            |                                                                                   |                                       |                                                |
| Panasonic Console for GSSI SCAN DF 300/800 GPR | 95                            | 395                                         | 1,185                                                                      | 1,778                                                                             | Not included                          | Not included                                   |
| Panasonic Console for GSSI 350HS GPR           | 95                            | 395                                         | 1,185                                                                      | 1,778                                                                             | Not included                          | Not included                                   |
| GSSI SIR3000 GPR Console / Screen              | 95                            | 395                                         | 1,185                                                                      | 1,778                                                                             | Not included                          | Not included                                   |
| MALA XVII GPR Console / Screen                 | 95                            | 395                                         | 1,185                                                                      | 1,778                                                                             | Not included                          | Not included                                   |
| MALA CX11 or CX 12 Console / Screen            | 95                            | 295                                         | 885                                                                        | 1,328                                                                             | Not included                          | Not included                                   |
| MALA GX Console / Screen for GX80 GPR          | 95                            | 525                                         | 1,575                                                                      | 2,363                                                                             | Not included                          | Not included                                   |
| <b>GSSI GPR ANTENNAS AND CARTS</b>             |                               |                                             |                                                                            |                                                                                   |                                       |                                                |
| GSSI 900 MHz Antenna                           | 95                            | 395                                         | 1,185                                                                      | 1,778                                                                             | Not included                          | Not included                                   |
| GSSI 400 MHz Antenna                           | 95                            | 395                                         | 1,185                                                                      | 1,778                                                                             | Not included                          | Not included                                   |
| GSSI 270 MHz Antenna                           | 95                            | 395                                         | 1,185                                                                      | 1,778                                                                             | Not included                          | Not included                                   |
| GSSI 200 MHz Antenna                           | 95                            | 395                                         | 1,185                                                                      | 1,778                                                                             | Not included                          | Not included                                   |
| GSSI Survey Wheel                              | 120                           | 395                                         | 1,185                                                                      | 1,778                                                                             | Not included                          | Not included                                   |



| Item                                             | Prep<br>(AUD \$)<br>excl. GST | Rental<br>Day rate<br>(AUD \$)<br>excl. GST | 3 Days Minimum<br>Rental (excluding<br>Prep and Shipping)<br>excluding GST | Weekly 7 Days<br>Rental<br>Save 32% only 4.5<br>Days Chargeable.<br>excluding GST | Outbound<br>Shipping<br>(To customer) | Inbound<br>Shipping<br>Return From<br>Customer |
|--------------------------------------------------|-------------------------------|---------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------|
| GSSI Survey Cart (3-Wheel Rough terrain<br>Cart) | 185                           | 245                                         | 735                                                                        | 1,103                                                                             | Not included                          | Not included                                   |
| GSSI Survey Cart (4Wheel Cart)                   | 185                           | 245                                         | 735                                                                        | 1,103                                                                             | Not included                          | Not included                                   |
| <b>MALA GPR ANTENNAS AND CARTS</b>               |                               |                                             |                                                                            |                                                                                   |                                       |                                                |
| Mala Gx 80MHz HDR Antenna                        | 295                           | 795                                         | 2,385                                                                      | 3,578                                                                             | Not included                          | Not included                                   |
| Mala 250 MHz Antenna                             | 185                           | 385                                         | 1,155                                                                      | 1,733                                                                             | Not included                          | Not included                                   |
| Mala 500 MHz Antenna                             | 185                           | 385                                         | 1,155                                                                      | 1,733                                                                             | Not included                          | Not included                                   |
| Mala 800 MHz Antenna                             | 185                           | 385                                         | 1,155                                                                      | 1,733                                                                             | Not included                          | Not included                                   |
| Mala 1200 MHz Antenna                            | 185                           | 385                                         | 1,155                                                                      | 1,733                                                                             | Not included                          | Not included                                   |
| Mala 1600 MHz Antenna                            | 185                           | 385                                         | 1,155                                                                      | 1,733                                                                             | Not included                          | Not included                                   |
| Mala 2300 MHz Antenna                            | 185                           | 385                                         | 1,155                                                                      | 1,733                                                                             | Not included                          | Not included                                   |
| Mala Rough Terrain Cart                          | 185                           | 245                                         | 735                                                                        | 1,103                                                                             | Not included                          | Not included                                   |
| Mala Encoder Survey Wheel                        | 155                           | 195                                         | 585                                                                        | 975                                                                               | Not included                          | Not included                                   |



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## LOW STRAIN SONIC IMPACT PILE INTEGRITY TESTING

Low-strain pile integrity testing (also known as **sonic echo / impact echo testing**) is a widely used **non-destructive testing (NDT)** method to assess the condition of foundation piles.

Low-strain PIT is primarily a **screening and integrity assessment tool**, not a direct load capacity test. It is most effective for detecting **major defects and estimating pile length** but may not identify very small or deep anomalies.

## IMPULSE ECHO, SONIC ECHO, LOW-STRAIN PILE INTEGRITY TESTING (PIT) PILES DEEP FOUNDATI



### LOW STRAIN SONIC IMPACT PILE INTEGRITY TESTING FOR HIRE

| Item                                                                                                                                                                                     | Prep<br>(AUD \$)<br>excl. GST | Rental<br>Day rate<br>(AUD \$)<br>excl. GST | 3 Days Minimum<br>Rental (excluding<br>Prep and Shipping)<br>excluding GST | Weekly 7 Days<br>Rental<br>Save 32% only 4.5<br>Days Chargeable.<br>excluding GST | Outbound<br>Shipping<br>(To customer) | Inbound<br>Shipping<br>Return from<br>Customer |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------|
| <b>Pile Dynamics Inc (PDI) Low Strain Sonic Impact Echo, Pile integrity Testing (PIT) system for verifying Depth of Piles</b>                                                            |                               |                                             |                                                                            |                                                                                   | Not included                          | Not included                                   |
| Supplied as an optional accessory                                                                                                                                                        |                               |                                             |                                                                            |                                                                                   |                                       |                                                |
| PIT-W software post-processes the data and generates reports delivered on laptop.                                                                                                        |                               | 295                                         | 885                                                                        | 1,327.5                                                                           | Not included                          | Not included                                   |
| <b>PROCEQ PD-8000 Low Strain Pile Integrity Testing (PIT) system for verifying Depth of Piles and Sonic Impact Echo applications</b>                                                     | 195                           | 685                                         | 2,055                                                                      | 3,082.5                                                                           | Not included                          | Not included                                   |
| <b>OLSON INSTRUMENTS NDE 360 Low-strain Pile Integrity Testing (PIT) Kit complete with hardware accessories including: Sensor, Hammer, Coupling Compound, Impactors, instrument Case</b> | 195                           | 695                                         | 2,085                                                                      | 3,127.5                                                                           | Not included                          | Not included                                   |
| Supplied as an optional accessory                                                                                                                                                        |                               |                                             |                                                                            |                                                                                   |                                       |                                                |
| <b>WINSIER SOFTWARE</b> for post-processing of Low-strain Pile integrity testing data of deep foundations and generates reports.                                                         |                               | 295                                         | 885                                                                        | 1,327.5                                                                           | Not included                          | Not included                                   |

### Key Applications of LOW STRAIN SONIC IMPACT PILE INTEGRITY TESTING

- Verify Structural Integrity of the Pile Determine the Depth extent (Length) / embedded depth of Deep Foundations footing, Pier, Pile or Shaft
- Confirm that the pile is continuous and intact along its length
- Detect major defects such as: Cracks, Voids, discontinuities Honeycombing, Soil inclusions
- Determine and Verify Toe-of-pile or end of the foundation footing.
- Detect Changes in Cross-Section Identify anomalies such as: Necking (reduction in diameter), Bulging (enlargement of section), These changes affect load-bearing capacity and durability
- Provide Quick, Cost-Effective Screening, enable testing of large numbers of piles quickly, Serve as a screening tool before more advanced tests like: Crosshole Sonic Logging (CSL), Parallel Seismic (PS) Testing

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## CROSS HOLE SONIC (CSL) LOGGING FOR HIRE

Cross hole Sonic Logging (CSL) is a **non-destructive testing (NDT)** method used to assess the integrity and quality of deep foundations such as bored piles and drilled shafts.

## CROSSHOLE SONIC LOGGING (CSL) PILE INTEGRITY TESTING OF DEEP PILES, DIAPHRAM WALLS



### CROSS HOLE SONIC (CSL) LOGGING FOR HIRE

| Item                                                                                                                                                                                                                                      | Prep<br>(AUD \$)<br>excl. GST | Rental<br>Day rate<br>(AUD \$)<br>excl. GST | 3 Days Minimum<br>Rental (excluding<br>Prep and Shipping)<br>excluding GST | Weekly 7 Days<br>Rental<br>Save 33% only 4.5<br>Days Chargeable.<br>excluding GST | Outbound<br>Shipping<br>(To customer) | Inbound<br>Shipping<br>Return from<br>Customer |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------|
| <b>MAE WCH4 Crosshole Sonic Logging system</b> <a href="https://www.mae-srl.it/en/products/instruments/wch4">https://www.mae-srl.it/en/products/instruments/wch4</a> made in Italy.                                                       | 295                           | 1,325                                       | 3,975                                                                      | 5,963                                                                             | Not included                          | Not included                                   |
| <b>MCHA All-in-one multipurpose Crosshole Sonic Logging System (CSL)</b><br>3 probes system, active type piezoceramic receivers. For details refer to <a href="https://geodevice.co/product/mcha/">https://geodevice.co/product/mcha/</a> | 295                           | 1,325                                       | 3,975                                                                      | 5,963                                                                             | Not included                          | Not included                                   |
| <b>OTHER COMPATIBLE TECHNOLOGIES</b>                                                                                                                                                                                                      |                               |                                             |                                                                            |                                                                                   |                                       |                                                |
| Pile Dynamics Inc (PDI) Low Strain Sonic Impact Echo, Pile integrity Testing (PIT) system for verifying Depth of Piles                                                                                                                    | 195                           | 685                                         | 2,055                                                                      | 3,082.5                                                                           | Not included                          | Not included                                   |

### Key Applications of CROSSHOLE SONIC LOGGING (CSL) TESTING

- **Assess Structural Integrity of Concrete** Verify that the pile or shaft is **sound and continuous**, Detect any structural weaknesses within the concrete.
- **Detect Internal Defects** Identify defects such as: Voids or honeycombing, Soil inclusions or contamination, Cracks or segregation zones Locate defects both **vertically (depth)** and **horizontally (between tubes)**.
- **Evaluate Concrete Quality**, measure **ultrasonic pulse velocity (UPV)** through the concrete Infer: Concrete uniformity, quality / degree of compaction and vibration, Relative strength zones.
- **Confirm Proper Construction of Piles** Check that: Concrete placement was successful, no major defects occurred during pouring (e.g., tremie issues) Provide assurance that the pile meets design and specification requirements
- **Determine Depth and Extent of Anomalies** Precisely locate depth of defects, **severity and lateral extent** between access tubes.
- **Quality Control and Acceptance Testing** Serve as a **QA/QC tool** for contractors and engineers **and** Support decisions for: Acceptance of piles, Need for remediation (e.g., grouting, load reduction, replacement).
- **Provide Documentation for Engineering Decisions** Generate, Velocity profiles, Signal attenuation plots, CSL tomographic images (if multi-tube) Used in **design verification, certification, and reporting**.

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## ULTRASONIC PULSE VELOCITY (UPV) TESTING OF CONCRETE STRUCTURES FOR HIRE

### Applications of Ultrasonic Pulse Velocity (UPV) Testing of Concrete

Ultrasonic Pulse Velocity (UPV) testing is a non-destructive testing (NDT) method used to evaluate the quality, integrity, and condition of concrete structures by measuring the travel time of ultrasonic pulses through concrete. The method is, UPV testing is a highly valuable technique widely used in structural assessment, durability investigations, and quality control of reinforced concrete structures in a manner that minimises damage or invasiveness to the structure during inspection.

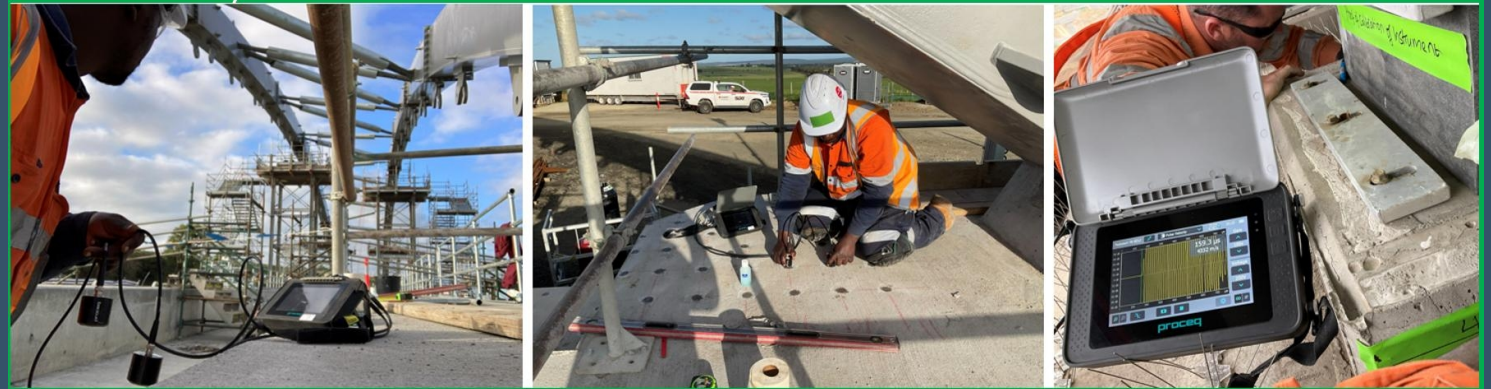
#### Advantages of UPV Testing

- Non-destructive and non-invasive
- Rapid and repeatable
- Provides immediate results
- Suitable for large structures
- Can detect hidden internal defects
- Useful for long-term monitoring

#### Common Structures Tested Using UPV

- Reinforced concrete bridges
- Concrete tanks and reservoirs
- Suspended slabs
- Columns and beams
- Piles and foundations
- Tunnels and retaining walls
- Industrial concrete structures
- Marine structures
- Pavements and dams

## ULTRASONIC PULSE VELOCITY (UPV) TESTING, GRADING CONCRETE QUALITY, HOMOGENEITY AND LOCATING INTERNAL DEFECTS (VOIDS, HONEYCOMBING, CONCRETE SEGREGATION, DELAMINATION, CRACKING ETC)



| ULTRASONIC PULSE VELOCITY (UPV) TESTING OF CONCRETE STRUCTURES FOR HIRE                                                                                                                                                                                                                                                                                                                         |                               |                                             |                                                                            |                                                                                   |                                       |                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------|
| Item                                                                                                                                                                                                                                                                                                                                                                                            | Prep<br>(AUD \$)<br>excl. GST | Rental<br>Day rate<br>(AUD \$)<br>excl. GST | 3 Days Minimum<br>Rental (excluding<br>Prep and Shipping)<br>excluding GST | Weekly 7 Days<br>Rental<br>Save 33% only 4.5<br>Days Chargeable.<br>excluding GST | Outbound<br>Shipping<br>(To customer) | Inbound<br>Shipping<br>Return from<br>Customer |
| <b>Pundit PL 200</b> Concrete Ultrasonic Pulse Velocity (UPV) Tester.<br>Other applications <ul style="list-style-type: none"> <li>• Determines the depth extent of perpendicular cracks in Concrete according to BS 1881.</li> <li>• Surface velocity measurement, Line Scan, Area Scan,</li> <li>• compressive strength correlations,</li> <li>• SONREB and E-modulus measurements</li> </ul> | 195                           | 625                                         | 1,875                                                                      | 2,813                                                                             | Not included                          | Not included                                   |
| <b>Proceq PUNDIT LAB+</b> Concrete Ultrasonic Pulse Velocity (UPV) Tester.                                                                                                                                                                                                                                                                                                                      | 195                           | 525                                         | 1,575                                                                      | 2,363                                                                             | Not included                          | Not included                                   |
| <b>MAE CRONOSONIC</b> Concrete Ultrasonic Pulse Velocity (UPV) Tester.<br>Other applications <ul style="list-style-type: none"> <li>• Determines the depth extent of perpendicular cracks in Concrete according to BS 1881.</li> </ul>                                                                                                                                                          | 195                           | 485                                         | 1,455                                                                      | 2,183                                                                             | Not included                          | Not included                                   |





| MAE ULTRASONIC PULSE VELOCITY (UPV) TESTING OF CONCRETE STRUCTURES <b>FOR HIRE</b>                                                                                                              |                               |                                             |                                                                            |                                                                                          |                                       |                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------|
| Item                                                                                                                                                                                            | Prep<br>(AUD \$)<br>excl. GST | Rental<br>Day rate<br>(AUD \$)<br>excl. GST | 3 Days Minimum<br>Rental (excluding<br>Prep and Shipping)<br>excluding GST | Weekly 7 Days<br>Rental<br><b>Save 33%</b> only 4.5<br>Days Chargeable.<br>excluding GST | Outbound<br>Shipping<br>(To customer) | Inbound<br>Shipping<br>Return from<br>Customer |
| <b>MAE CRONOSONIC</b> Concrete Ultrasonic Pulse Velocity (UPV) Tester.<br><b>Other applications</b> Determines the depth extent of perpendicular cracks in Concrete in accordance with BS 1881. | 195                           | 485                                         | 1,455                                                                      | 2,183                                                                                    | Not included                          | Not included                                   |

### Main Applications of UPV Testing

- Assessment of Concrete Quality**
  - Determines the uniformity and relative quality of concrete.
  - Identifies areas of poor compaction, segregation, honeycombing, or voids.
  - Assists in comparing concrete quality between different structural elements.
- Detection of Internal Defects**
  - Locates cracks, voids, delaminations, and internal discontinuities within concrete.
  - Detects hidden deterioration not visible on the surface.
  - Useful for identifying damage caused by corrosion, freeze-thaw action, fire, or chemical attack.
- Estimation of Concrete Strength**
  - Provides indirect estimation of compressive strength when correlated with laboratory calibration data.
  - Commonly used together with rebound hammer testing for improved reliability.
  - Assists in determining in-situ concrete condition in existing structures.
- Evaluation of Concrete Uniformity**
  - Assesses consistency of concrete placement throughout a structure.
  - Detects variations in concrete density and stiffness.
  - Useful during construction quality assurance.
- Assessment of Crack Depth and Continuity**
  - Measures depth and extent of surface cracks.
  - Helps determine whether cracks penetrate through structural members.
  - Assists in evaluating structural significance of cracking.
- Durability and Deterioration Investigations**
  - Evaluates concrete deterioration associated with reinforcement corrosion, sulphate attack, alkali-silica reaction, carbonation, and water ingress.
  - Supports service-life assessment and durability studies.
  - Often used in bridge, marine, tank, tunnel, and industrial structure inspections.
- Fire-Damaged Concrete Assessment**
  - Determines reduction in concrete quality after exposure to elevated temperatures.
  - Identifies thermally damaged zones and weakened concrete.
- Thickness Measurement**
  - Measures thickness of slabs, walls, pavements, and other concrete elements where access is limited.
  - Useful where only one surface is accessible using indirect transmission methods.
- Monitoring of Repairs and Grouting**
  - Verifies effectiveness of crack injection, grouting, or repair works.
  - Detects voids beneath repaired areas or overlays.
- Assessment of Structural Integrity and Quality Control During Construction:** Used in condition assessment of bridges, tunnels, dams, foundations, piles, tanks, silos, and buildings, Confirms consistency of precast concrete products.

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# SPAULDING GEOPHYSICS GEOSCIENTIFIC & CONCRETE NDT EQUIPMENT HIRE CATALOGUE

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## ULTRASONIC PULSE VELOCITY (UPV) TESTING OF CONCRETE STRUCTURES **FOR HIRE**

### Applications of Ultrasonic Pulse Velocity (UPV) Testing of Concrete

Ultrasonic Pulse Velocity (UPV) testing is a non-destructive testing (NDT) method used to evaluate the quality, integrity, and condition of concrete structures by measuring the travel time of ultrasonic pulses through concrete. The method is, UPV testing is a highly valuable technique widely used in structural assessment, durability investigations, and quality control of reinforced concrete structures in a manner that minimises damage or invasiveness to the structure during inspection.

#### Advantages of UPV Testing

- Non-destructive and non-invasive
- Rapid and repeatable
- Provides immediate results
- Suitable for large structures
- Can detect hidden internal defects
- Useful for long-term monitoring

#### Common Structures Tested Using UPV

- Reinforced concrete bridges
- Concrete tanks and reservoirs
- Suspended slabs, Columns and beams
- Piles and foundations
- Tunnels and retaining walls
- Industrial concrete structures
- Marine structures , Pavements and dams

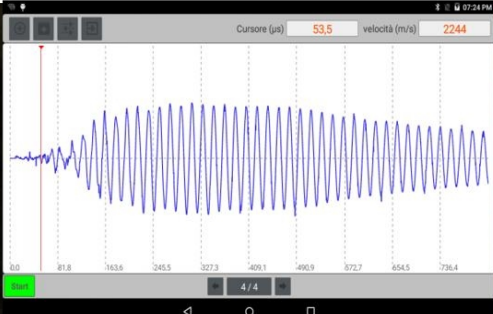
## ULTRASONIC PULSE VELOCITY (UPV) TESTING, GRADING CONCRETE QUALITY, HOMOGENEITY AND LOCATING INTERNAL DEFECTS (VOIDS, HONEYCOMBING, CONCRETE SEGREGATION, DELAMINATION, CRACKING ETC)



# SONIC15

INSTRUMENT FOR ULTRASONIC PULSE VELOCITY AND SONIC TESTS WITH INSTRUMENTED HAMMER

#ultrasonic tests
#Touch screen display
#Integrated monitor


## MAE SONIC-15 ULTRASONIC PULSE VELOCITY (UPV) TESTING OF CONCRETE STRUCTURES **FOR HIRE**

| Item                                                                                                                                                                                                                                                                                                                                                                                      | Prep<br>(AUD \$)<br>excl. GST | Rental<br>Day rate<br>(AUD \$)<br>excl. GST | 3 Days Minimum<br>Rental (excluding<br>Prep and Shipping)<br>excluding GST | Weekly 7 Days<br>Rental<br><b>Save 33%</b> only 4.5<br>Days Chargeable.<br>excluding GST | Outbound<br>Shipping<br>(To customer) | Inbound<br>Shipping<br>Return from<br>Customer |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------|
| <b>MAE SONIC-15</b> Concrete and Masonry<br>Ultrasonic Pulse Velocity (UPV) Tester.<br>Other applications <ul style="list-style-type: none"> <li>• Homogeneity of the material</li> <li>• Elastic-mechanical characteristics</li> <li>• Extent, geometry, and location of internal anomalies or defects, time-related variations in the qualitative parameters of the concrete</li> </ul> | 195                           | 625                                         | 1,875                                                                      | 2,813                                                                                    | Not included                          | Not included                                   |
| <b>MAE CRONOSONIC</b> Concrete Ultrasonic<br>Pulse Velocity (UPV) Tester.                                                                                                                                                                                                                                                                                                                 | 195                           | 485                                         | 1,455                                                                      | 2,183                                                                                    | Not included                          | Not included                                   |



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## ULTRASONIC PULSE ECHO TOMOGRAPHY (UT) SCANNING OF CONCRETE STRUCTURES FOR HIRE



### Applications of Ultrasonic Pulse Echo Tomography (UT) Scanning of Concrete

Ultrasonic Pulse Echo Tomography (UT) Scanning is a high-resolution non-destructive testing (NDT) method used to investigate presence or absence of internal defects including Voids, Honeycombing, Porosity, poorly vibrated weak Concrete, internal cracking, Concrete segregation, Air gap clearances between tunnel segments, Corrosion-induced fracturing, Delaminations etc. UPV testing is a highly valuable technique widely used in structural assessment, durability investigations, and quality control of reinforced concrete structures in a manner that minimises damage or invasiveness to the structure during inspection.

This method surpasses most challenges of GPR scanning of Steel-Fibre reinforced Concrete or densely reinforced structures, and challenges to UPV scanning where access to both faces of a Concrete structure is not always possible.

#### Advantages of UPV Testing

- Non-destructive and non-invasive
- Rapid and repeatable
- Provides immediate results
- Suitable for large structures
- Can detect hidden internal defects
- Useful for long-term monitoring

#### Common Structures Tested Using UPV

- Reinforced concrete bridges
- Concrete tanks and reservoirs
- Suspended slabs
- Columns and beams
- Piles and foundations
- Tunnels and retaining walls
- Industrial concrete structures
- Marine structures
- Pavements and dams

## ULTRASONIC PULSE ECHO TOMOGRAPHY (UT) SCANNING OF CONCRETE STRUCTURES FOR HIRE

| Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Prep<br>(AUD \$)<br>excl. GST | Rental<br>Day rate<br>(AUD \$)<br>excl. GST | 3 Days Minimum<br>Rental (excluding<br>Prep and Shipping)<br>excluding GST | Weekly 7 Days<br>Rental<br><b>Save 33%</b> only 4.5<br>Days Chargeable.<br>excluding GST | Outbound<br>Shipping<br>(To customer) | Inbound<br>Shipping<br>Return from<br>Customer |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------|
| <b>Pundit PD 8050 Concrete Ultrasonic Pulse Echo Tomography (UT) Scanner of Concrete Structures.</b><br><b>OTHER APPLICATIONS</b> <ul style="list-style-type: none"> <li>• QA/QC of Concrete Structures</li> <li>• investigate presence or absence of internal defects including</li> <li>• Voids, Honeycombing, Porosity,</li> <li>• poorly vibrated weak Concrete,</li> <li>• internal cracking, Concrete segregation,</li> <li>• Air gap clearances between tunnel segments,</li> <li>• Corrosion-induced fracturing, Delaminations etc.</li> </ul> | 195                           | 995                                         | 2,985                                                                      | 4,477.5                                                                                  | Not included                          | Not included                                   |

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IN-SITU CONCRETE COMPRESSIVE STRENGTH (MPa) TESTING REBOUND SCHMIDT HAMMER & WINDSOR PROBE FOR HIRE



Rebound Schmidt Hammer Testing of Concrete

The Rebound Schmidt Hammer test is a non-destructive testing (NDT) method used to assess the surface hardness and relative compressive strength of hardened concrete in accordance with ASTM C805 / C805M – Standard Test Method for Rebound Number of Hardened Concrete

Test for Concrete Strength (MPa) of any Concrete Structure, None Invasively, No Damage No Drudgery of Coring and Restoration  
Note: The windsor probe causes minimal surface damage, that's easily reinstated.

Main Applications

- Estimation of in-situ concrete compressive strength
- Assessment of concrete uniformity across a structure
- Identification of weak, deteriorated, or poorly compacted zones
- Quality control during construction
- Comparative assessment between different structural elements
- Evaluation of strength development over time
- Preliminary screening before coring or advanced testing
- Condition assessment of bridges, slabs, columns, tanks, and pavements

Advantages

- Completely non-destructive
- Rapid and simple field operation
- Portable and lightweight equipment
- Immediate test results
- Economical compared to core testing
- Suitable for large-area investigations
- Minimal operator training required
- Useful for mapping variability in concrete quality
- **Helps reduce the number of destructive core samples required / Reduces Structural Damage**

| IN-SITU CONCRETE COMPRESSIVE STRENGTH (MPa) TESTING REBOUND SCHMIDT HAMMER & WINDSOR PROBE FOR HIRE                                                                                                                             |                         |                                    |                                                                   |                                                                              |                                 |                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------|-----------------------------------------|
| Item                                                                                                                                                                                                                            | Prep (AUD \$) excl. GST | Rental Day rate (AUD \$) excl. GST | 3 Days Minimum Rental (excluding Prep and Shipping) excluding GST | Weekly 7 Days Rental <b>Save 33%</b> only 4.5 Days Chargeable. excluding GST | Outbound Shipping (To customer) | Inbound Shipping (Return from Customer) |
| <b>Proceq™ Rebound Schmidt Hammer</b><br>Assess the surface hardness and relative compressive strength of hardened concrete in accordance with ASTM C805 / C805M – Standard Test Method for Rebound Number of Hardened Concrete | 195                     | 325                                | 975                                                               | 1,463                                                                        | Not included                    | Not included                            |
| <b>James NDT Windsor Probe</b> Supplied with 5 live Rounds /shots.                                                                                                                                                              | 195                     | 425                                | 1,275                                                             | 1,912.5                                                                      | Not included                    | Not included                            |





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IN-SITU CONCRETE COMPRESSIVE STRENGTH (MPa) TESTING OF MASONRY, BRICK AND MORTAR JOINTS FOR HIRE



The NDT James masonry tester, brick tester, and mortar tester are non-destructive or semi-destructive testing (NDT) instruments used to evaluate the condition, integrity, and relative strength of masonry materials such as bricks, mortar joints, stonework, and blockwork in existing structures.

**Heritage and Conservation Engineering.** Widely used in: Churches, Historic brick buildings, Stone monuments, Heritage facades where minimal damage testing is essential.

| IN-SITU CONCRETE COMPRESSIVE STRENGTH (MPa) TESTING OF MASONRY, BRICK AND MORTAR JOINTS FOR HIRE                                                                                                                                                                                                                                                                                      |                               |                                             |                                                                            |                                                                                   |                                       |                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------|
| Item                                                                                                                                                                                                                                                                                                                                                                                  | Prep<br>(AUD \$)<br>excl. GST | Rental<br>Day rate<br>(AUD \$)<br>excl. GST | 3 Days Minimum<br>Rental (excluding<br>Prep and Shipping)<br>excluding GST | Weekly 7 Days<br>Rental<br>Save 33% only 4.5<br>Days Chargeable.<br>excluding GST | Outbound<br>Shipping<br>(To customer) | Inbound<br>Shipping<br>Return from<br>Customer |
| <b>NDT JAMES™ Masonry / Brick / Mortar<br/>Strength Test Hammer</b> <ul style="list-style-type: none"><li>Estimation of compressive strength and surface hardness of: Clay bricks, Concrete masonry blocks, Mortar joints, Stone masonry</li><li>Structural Condition Surveys used during</li><li>Quality Control, Construction Verification of masonry workmanship quality</li></ul> | 195                           | 495                                         | 1,485                                                                      | 2,228                                                                             | Not included                          | Not included                                   |

Applications of James NDT Masonry, Brick and Mortar Testers

Masonry Wall Assessment

- Evaluation of existing masonry structures for deterioration, weathering, and ageing.
- Assessment of heritage and historical masonry buildings where destructive testing must be minimized.
- Determination of weak zones, deteriorated mortar joints, and damaged bricks.

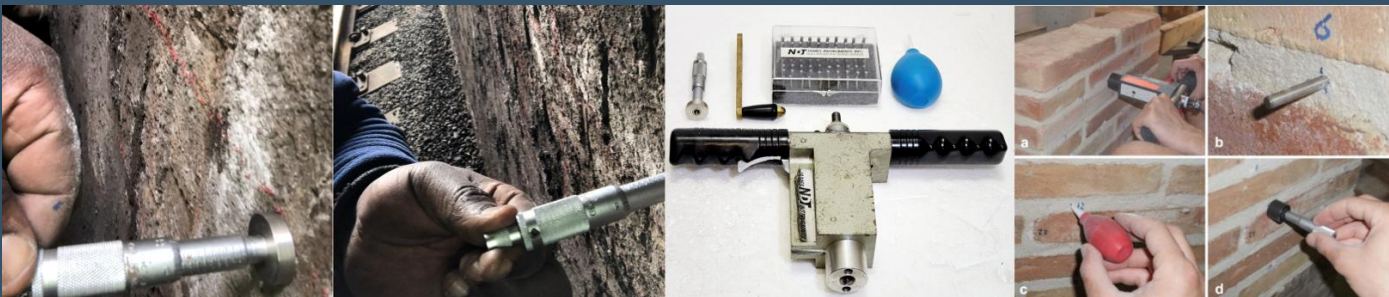
Estimation of Strength

- Estimation of compressive strength and surface hardness of: Clay bricks, Concrete masonry blocks, Mortar joints, Stone masonry

**Structural Condition Surveys used during:** Building condition audits, Structural safety inspections, Rehabilitation projects, Restoration and conservation works, Seismic vulnerability assessments

**Quality Control and Construction Verification:** Verification of masonry workmanship quality, Comparison of newly constructed masonry against design requirements, Detection of poorly bonded or weak mortar areas.

**Investigation of Defects Useful for identifying:** Weak mortar joints, Surface deterioration, Weathered bricks, Cracking zones, Delamination or void-related deterioration in masonry systems.



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**IN-SITU CONCRETE / SHOTCRETE TENSILE BOND STRENGTH (MPa / PSI) TESTING OF SHOTCRETE FOR HIRE**



| PULL-OFF TEST # | LOCATION (Comments) | SIDE OF TUNNEL WALL   | PHOTOGRAPH OF CORE EXTRACTED | FAILURE ZONE                                                                  |
|-----------------|---------------------|-----------------------|------------------------------|-------------------------------------------------------------------------------|
| 1               | CH00H5- (LHS)       | Left Hand Side (LHS)  |                              | Failed at 3.7 MPa force. Location of failure: 10mm below surface of concrete. |
| 2               | CH00H5- (RHS)       | Right Hand Side (RHS) |                              | Failed at 3.7 MPa force. Location of failure: 10mm below surface of concrete. |
| 3               | CH01H5- (LHS)       | Left Hand Side (LHS)  |                              | Failed at 5.1 MPa force. Location of failure: 10mm below surface of concrete. |
| 4               | CH01H5- (RHS)       | Right Hand Side (RHS) |                              | Failed at 4.9 MPa force. Location of failure: 10mm below surface of concrete. |
| 5               | CH01H5- (RHS)       | Right Hand Side (RHS) |                              | Failed at 4.9 MPa force. Location of failure: 10mm below surface of concrete. |

## Pull-Off Test of Concrete Bond Strength

The Pull-Off Test is a semi-destructive testing method used to measure the tensile bond strength between concrete substrates and repair materials, coatings, overlays, renders, screeds, or protective systems. The test determines the force required to pull a bonded metal disc (dolly) away from the concrete surface.

It is widely used in structural condition assessment, concrete repair quality assurance, coating adhesion evaluation, and durability investigations.

**We all like testing Compressive strength / MPa / hardness of Concrete.... Why don't we test for Tensile Bond Strength?**

- For Testing Bond Strength of Shotcrete, Shotcrete-to-Brick, Pavement Layer to Shotcrete, Shotcrete-to-Blinding, Tiles-to-Concrete etc.
- Used to measure the tensile bond strength between concrete substrates and repair materials, coatings, overlays, renders, screeds, or protective systems.

## IN-SITU CONCRETE / SHOTCRETE TENSILE BOND STRENGTH (MPa / PSI) TESTING OF SHOTCRETE FOR HIRE

| Item                                                                                                                                            | Prep (AUD \$) excl. GST | Rental Day rate (AUD \$) excl. GST | 3 Days Minimum Rental (excluding Prep and Shipping) excluding GST | Weekly 7 Days Rental <b>Save 33%</b> only 4.5 Days Chargeable. excluding GST | Outbound Shipping (To customer) | Inbound Shipping (Return from Customer) |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------|-----------------------------------------|
| <b>Proceq DY-216 Pull-off Tester</b><br>(Standard supplied with 3 testing Dollies. More test dollies can be supplied at a cost).                | 195                     | 525                                | 1,575                                                             | 2,363                                                                        | Not included                    | Not included                            |
| <b>Proceq DYNA Z16 Pull-off Tester</b><br>(Standard supplied with 3 testing Dollies. More test dollies can be supplied at a cost).              | 195                     | 399                                | 1,197                                                             | 1,796                                                                        | Not included                    | Not included                            |
| <b>NDT James Instruments 2000 Bond Pull-off Tester</b> (Standard supplied with 3 testing Dollies. More test dollies can be supplied at a cost). | 195                     | 395                                | 1,185                                                             | 1,778                                                                        | Not included                    | Not included                            |
| <b>DeFelsko PosiTest AT-A Automatic Pull-off Adhesion Tester</b>                                                                                | 195                     | 395                                | 1,185                                                             | 1,778                                                                        | Not included                    | Not included                            |

## Applications of PULL-OFF BOND STRENGTH TESTING

**Concrete Repair Assessment:** Evaluation of bond strength between: Existing concrete and repair mortar, Concrete overlays, Epoxy repairs, Shotcrete repairs, Structural strengthening systems.

**Coating and Protective System Evaluation** Used to assess adhesion of: Waterproofing membranes, Protective coatings, Epoxy coatings, Polyurethane coatings, Corrosion protection systems, Tank linings

**Surface Preparation Verification:** Verification that concrete surface preparation methods are adequate before coating or repair application. Assessment of blasting, grinding, scarification, or hydro-demolition effectiveness.

**Structural Rehabilitation Projects:** Quality assurance during bridge, tunnel, marine, industrial, and building rehabilitation works. Verification of bonding performance of strengthening materials.

**Delamination and Weak Surface Detection:** Identification of weak surface zones. Detection of poorly bonded repair areas or deteriorated concrete layers.

**Overlay and Screed Testing.** Bond assessment of: Concrete toppings, Industrial floor overlays, Cementitious screeds, Polymer-modified overlays



**Your Search is Over. You've found us, we have everything!**

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