INDEPENDENCE
PROTECTION
COMPLIANCE

Testimonials

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Expedient testing turnaround timeframes
Approved to test to an extensive breadth of international standards
Ultra high resolution digital radiography (X-ray)
Independent, unbiased testing and evaluation
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ESTABLISHED IN 1997, WE ARE A PRIVATELY OWNED AND OPERATED AUSTRALIAN BUSINESS SET UP TO INDEPENDENTLY VERIFY COMPLIANCE TO INTERNATIONAL STANDARDS.

We are a NATA accredited testing laboratory specialising in performing tests and evaluations for the defence, law enforcement, security, transport and aerospace industries.

Our efficiency in delivering test results, the scope of testing capability combined with specialised equipment uniquely support our clients’ needs to achieve the highest levels of compliance.

Renowned for our world-class laboratory and our expertise, we provide ballistic testing services for a range of clients in Australia and abroad including NZ, UK, Malaysia, Singapore, Israel, Thailand and China.

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BMT has the capability to pre-condition your test samples prior to ballistic or radiographic testing.

Ballistic testing

SPECIALISING IN BALLISTIC TESTING, OUR COMPREHENSIVE RANGE OF COMPLIANCE AND PERFORMANCE EVALUATION SERVICES INCLUDES -

- Body armour - helmets, eyewear, vests, stab and spike protection, textiles
- Impact resistance testing of glass
- Bullet resistance testing in relation to physical and personal security
- Armoured vehicles - armoured personnel carriers, dignitary vehicles and cash carrying vans
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Ammunition evaluation testing

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We have access to authentic armour piercing ammunition as specified by individual test standards. Our team is experienced and competent in conducting testing as follows:

- Pressure tests
- Propellant Burn rates
- Lock time measurement
- Velocity measurement
- Accuracy evaluation
- Recoil measurement
- Chamber and peak pressure consistency
- Velocity accuracy
- Penetration analysis

Non-destructive testing

OUR COMPLETE OFFER OF NON-DESTRUCTIVE TESTING IS SUMMARISED AS FOLLOWS:

NON DESTRUCTIVE TESTING

- Digital radiography
- Scanning resolution down to 85 micron
- WEB ACCESS ARCHIVE SERVER
- Remote access to x-ray images via internet
- Images open with analysis software – DICOM viewer
- Very fast upload speed (10MB image in approx 2 seconds)
- System allows for “conference” viewing of images
- Quality and Assurance capability for ceramic manufacturers
- HIGH SPEED DIGITAL PHOTOGRAPHY
- Up to 100,000 frames per second
- Indicator of projectile yaw
- Determination of projectile stability
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Non-destructive testing

HIGH RESOLUTION DIGITAL RADIOPHraphy (X-Ray)

ADVANCED RADILOGIC ANALYSIS OF BODY ARMOUR STRIKE PLATES AND OTHER CERAMIC ARMOUR TYPES ARE EVALUATED THROUGH THE USE OF HIGH RESOLUTION DIGITAL X-RAY

This service provides accurate data ideally suited to research & development and quality assurance protocols. We offer our clients secure Internet access to our Archive Server for X-ray images. This enables you to view and edit your x-ray images using zoom, contract and measure tools.

We are able to detect defects as small as 85 micron. Detecting manufacturing defects in raw tiles prior to laminating into complete hard armour systems:

- Detecting cracks etc. which can result from the manufacturing process of hard armour systems
- Non Destructive “through life” and “life extension” examination of hard armour strike plates (body armour)
- Analysis of drop or durability test on ceramic hard armour plates
- Defect/damage analysis prior to acceptance of ceramic materials

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