



CAPABILITY SUMMARY 2023

RUREX is a solutions-based company that focuses primarily on the operation of our BETEC - Byrock Explosives Test & Evaluation Centre in NSW.

Testing: United Nations Manual of Test and Criteria (UN-MTC) regulatory approval testing + lot and functional testing,

RUREX are the only independent licenced and insured company developing the capability for the majority of test in the UN-MTC

UN Test 1(a) Gap Test
UN Test 1(b) Koenen Test
UN Test 1(c) Time Pressure Test
UN Test 1(d) Internal Ignition Test*
UN Test 2(a) Gap Test
UN Test 2(b) Koenen Test
UN Test 2(c) Time Pressure Test
UN Test 3(a) BAM Impact Test
UN Test 3(b) BAM Friction Test
UN Test 3(c)(i) Thermal Stability Test
UN Test 3(d) Small Scale Burn Test
UN Test 4(a) Thermal Stability*
UN Test 4(b)(ii) 12m Drop test*
UN Test 5(a) Cap Sensitivity*
UN Test 5(b)(iii) DDT Test*
UN Test 5(c) External Fire Test*
TS 6(a) Single Package Test*
TS 6(b) Stack Test*
UN Test 6(c) External Fire Test*
TS 6(d) Unconfined Package Test*
UN Test 8(a) Thermal Stability Test
UN Test 8(b) Gap Test
UN Test 8(c) Koenen Test
UN Test 8(d)(ii) Modified Vented Pipe Test
UN Test 8(e) Minimum Burning Pressure Test*
UN O.2 Test for Oxidising Liquids
UN S.1 Fertiliser Trough Test
Velocity of Detonation Test
EO -Lot Testing / Re-Lifing
HE Cast Melt Plant i.e. TNT, Pentolite, Comp B
ANE Sample Preparation (50+kg / day)
Research Blasting / Functioning Projects
Treatment of redundant / in operable - gas cylinders (C.A.S.T system)
EO and DG Disposal Projects

*Commissioning or Developing



Research

RUREX are a partner in research projects with our customers, the ability to tailor the site and support requirements to suit customer needs is a stand out feature of RUREX.

Disposal

RUREX is a specialised disposal operator, working closely with regulators and customers to find solutions for disposal of many different dangerous goods. Including inoperable dangerous goods cylinders.

OOTB

Out of the box projects arise in all aspects of RUREX operations and we find a way to support and assist in all aspects / areas of these projects. They are a speciality of RUREX and Ryan who has managed and created many OOTB concepts throughout his career.

RANGE AND STRUCTURES:

Multiple authorised explosives storage magazines (with room for further expansion)

4 range blasting areas (pits) allowing for small to large scale operations. Protected firing location (Main bunker) a firing board with multiple fixed firing lines communicating with firing and equipment shelters distributed across the range (pits).

Live view of all blasting operations from bunker
Communications i.e. by wire, RF, UHF, Wi-Fi

ENVIRONMENTAL FOCUS

RUREX operates with a strong environmental and sustainable focus. If a product can be recycled or if re-life solutions are available they are the preferred solution. RUREX operates under EPA protection of the environment operations (POEO) licence.

Testing Systems and equipment:

BAM Fallhammer
BAM Friction Tester
Koenen Test system
Modified Vented Pipe Test system with remote management of controls and data.
Time Pressure Test system
Velocity of detonation (VOD) testing systems
Preparation room with equipment such as: overhead mixer, impellers, hot water bath, pH meter, balances, viscometer



Dataloggers
Multiple blast monitors for air and vibration
Cameras and tripods
Roving network camera system
Pressure monitoring

Vehicles and machinery:

6 tonne loader with fork, bucket, auger (SWL 2000kg)
5.5 tonne excavator with tilt bucket and ripper.
6 tonne truck with 3 tonne crane
Range EO transport vehicles
Ancillary equipment i.e. generators, cement mixers, ventilation fans

Labour / Assistance:

Dedicated / specialised shotfiring services

- General labour for building / erection
- Equipment / service available such as and not limited to:
 - Laser level
 - Hand tools,
 - Welding
 - Supply management for ordering - steel, timber, fixings etc
- Low voltage electrical
- Communications i.e. by wire, RF, UHF, WIFI

OTHER OPERATIONS

RUREX also operates a pastoral property with a focus on sustainable pastoral management.

RUREX can provide earthmoving solutions specialising in small to mid-sized earthmoving projects.

We look forward to assisting you with your next security sensitive, confidential, dangerous goods projects.

Ryan Esam
Managing Director / Range Co-Ordinator
RUREX Pty Ltd