

Heritage Robotics Technologies

2013 MATE International Competition Spec Sheet

ROV Name: Tús Nua

Heritage Collegiate
Lethbridge,
Newfoundland,
Canada



(Back row – left to right)
Lucas Strong (Grade 11) – Payload Tools Technician,
Braden Chaffey(Grade 11) – CAD Specialist,
Patrick Holloway (Grade 12) – Electrical Technician ,
Gregory Ash(Grade 10) – Mechanical Technician,
Arne Maeland(Grade 12) – Chief Systems Design Engineer.
(Middle row – left to right)
Zach Chatman(Grade 11) – Structural Technician,
Sebastion Greening (Grade 11) – CAD Specialist,
Spencer Holloway (Grade 12) – Software Design Engineer.
(Front row – left to right)
Macailyn Pitt (Grade 11) CFO,
Jenna Blagdon (Grade 11) – Safety Officer,
Magdalena Maeland (Grade 11) – Public Relations Officer,
Laura Blundon(Grade 12) – CEO.

Total Cost: \$4660.51 CAD

Primary Materials: Polycarbonate Resin, Angled Aluminum, Plastic and Lead

Dimensions: 0.99m x 0.46m x 0.22m

Mass: 8.2kg

Safety Features: 25A fuse, 3A fuse for temperature sensor, warning labels, propeller guards, tether management protocol.

Special Features: Onboard computer system, joystick control, custom tether, multi-purpose underwater servo gripper, temperature sensor with its own onboard computer

Distance to Competition: 4942 km

History in Competition: Eight of our members are returning participants, and four are new to the competition. Our school has been a part of the MATE ROV competition since 2006, and in six of those eight years, we've represented our region in the international competition. This year our team consists of 12 members, aged 15 through 18 – eight of whom are returning competitors.

Mentors: Mr. Terrence Maloney, Mrs. Suzette Strong, and Mrs. Lyndon Williams