

# Traffic Control Infrastructure Specifications

## MTGA LV Boom Gate Skid

The MTGA LV boom gate skid is a mobile traffic control solution designed to support approximately 10 – 60 Watts of continuous power draw with an effective redundancy of up to four (4) days on batteries alone. The skids are designed to handle the harsh Australian environment and are low maintenance. Our clients typically utilize this skid for traffic control in the autonomous zone of the mine.

This solution utilizes one (1) high-efficiency 415-Watt solar panel, which can be rotated to any orientation to allow for the boom gate to be deployed in the desired direction. The Magnetic Pro-L boom gate skid features a sealed waterproof battery box that houses the batteries and an IP-rated power cabinet for electrical components.

The boom gate is designed with a radio receiver so that it can be signalled by an approaching vehicle. It also has an ultrasonic sensor that senses a passing vehicle underneath the boom and holds the boom up until the vehicle passes. The ultrasonic sensor will stop the boom gate from closing if it senses a vehicle passing. The user can also signal the boom gate to close with a second press of the remote.

| Specifications       |  |
|----------------------|--|
| Mass                 | Approx 1500kg                                |
| Boom Gate            | Magnetic Access Pro-L 6m                     |
| Power Output (Cont.) | Up to 60W<br>Location dependent              |
| Solar Controller     | Victron SmartSolar MPPT<br>100/30            |
| Radio Receiver       | Elsema PCR43304R                             |
| Ultrasonic Sensor    | SICK UM30-215111                             |
| Wind speed limit     | 80km/h                                       |
| Battery Redundancy   | 4 days                                       |
| Solar Panels         | 1x415W                                       |
| Batteries            | 2x12V 120Ah Century AGM                      |
| Battery Bank Voltage | 24V  |
| Enclosures           | 1 x Mild Steel Powder-Coated (600x400x300mm) |

