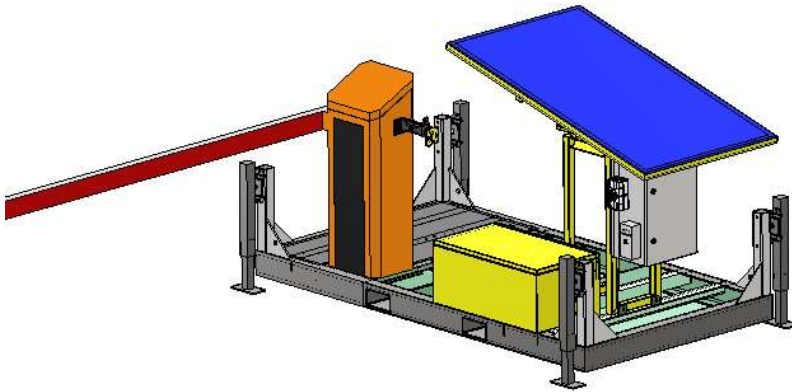


MTGA Boom Gate Options

1. New rotating solar panel frame with 6m boom gate



MTGA Boom Gate Options

- 2. Solar powered 8m boom gate trailer with optional mast (INNOMAST™)

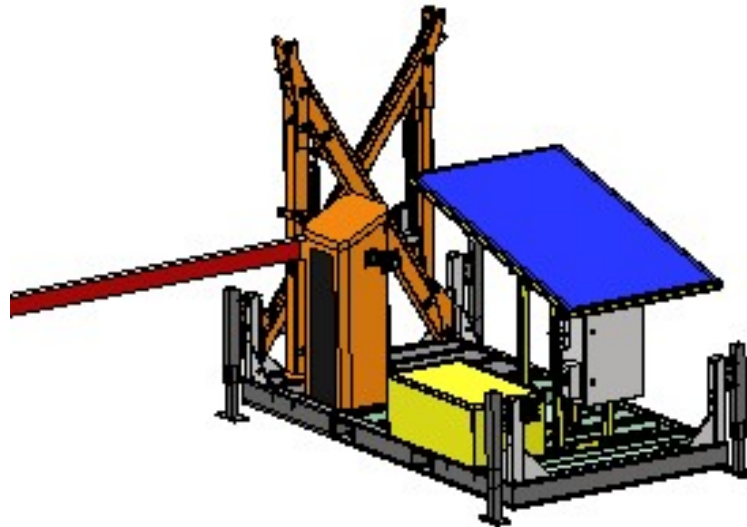


Fig 1. Linear actuator mast in transport position

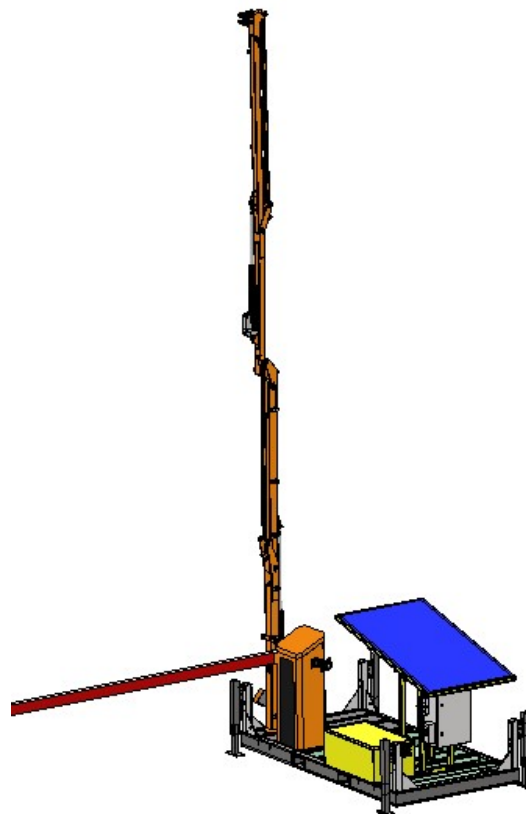
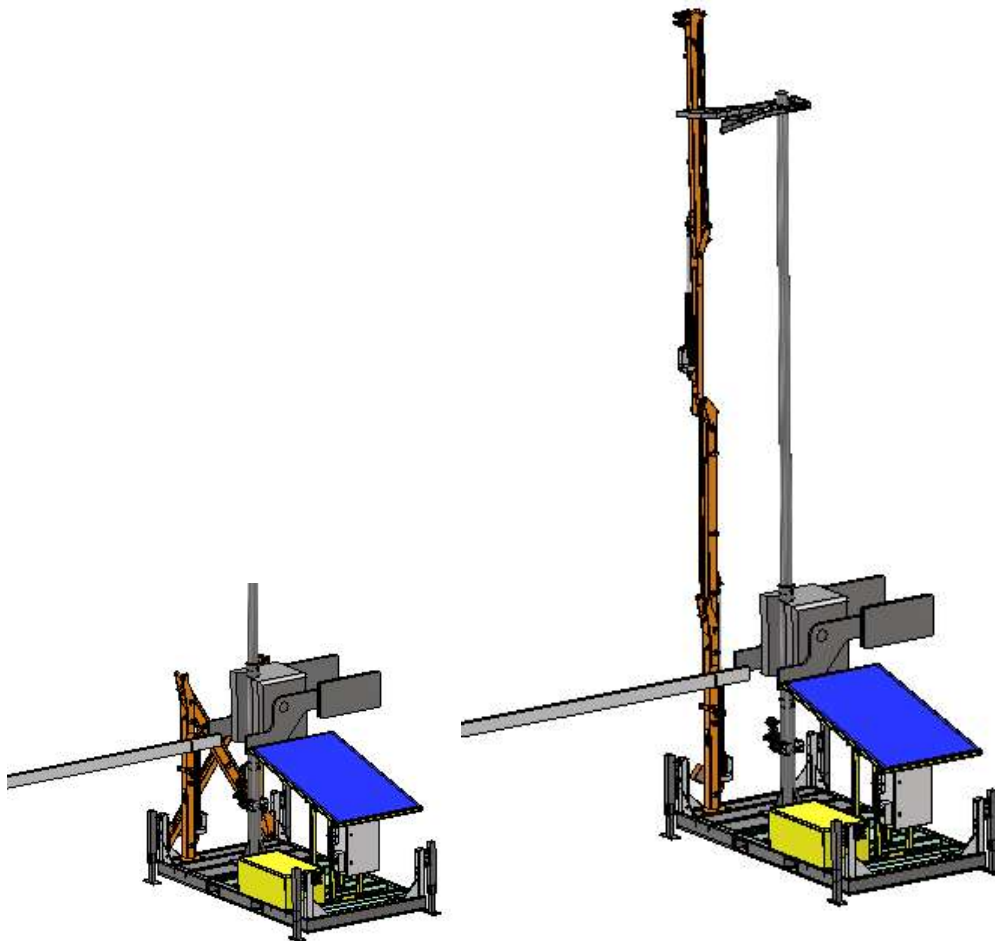


Fig. 2 Linear actuator mast extended

MTGA Boom Gate Options

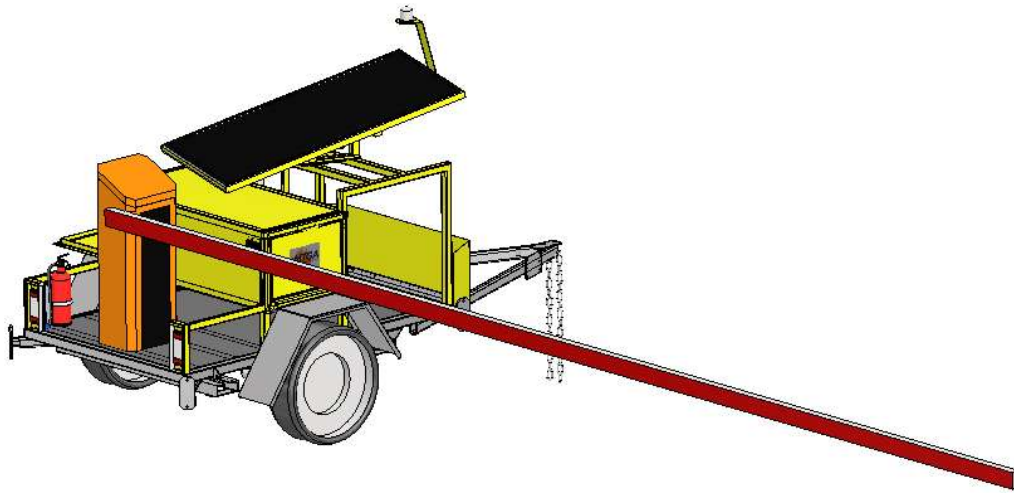
3. New rotating solar panel frame with 12m boom gate and optional INNOMAST™



MTGA Boom Gate Options

4. LV boom gate on trailer (up to 8m boom gate)

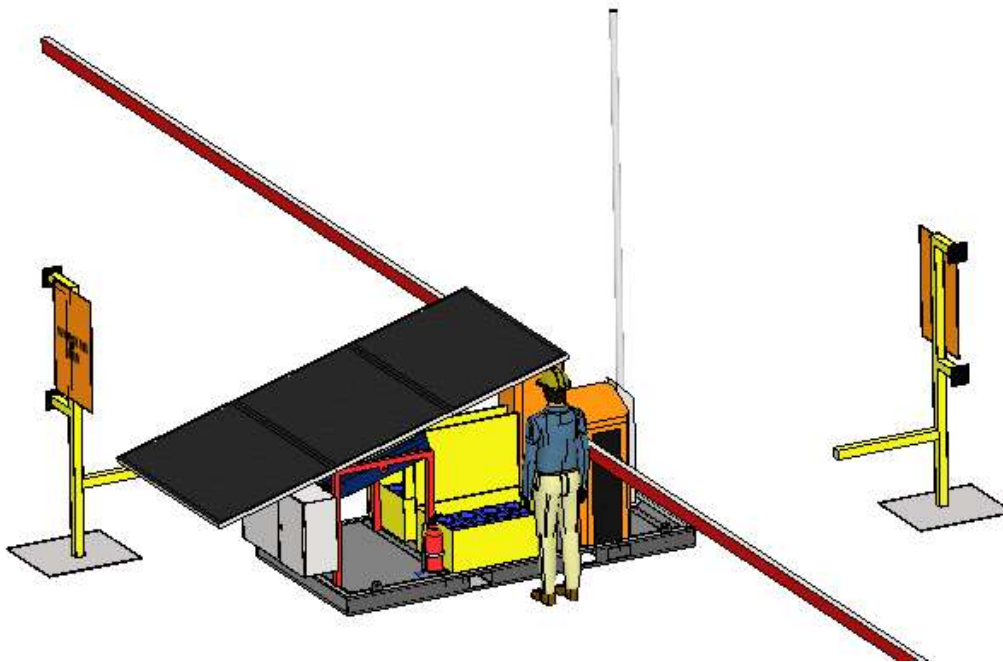
8m Boom gate mounted on trailer



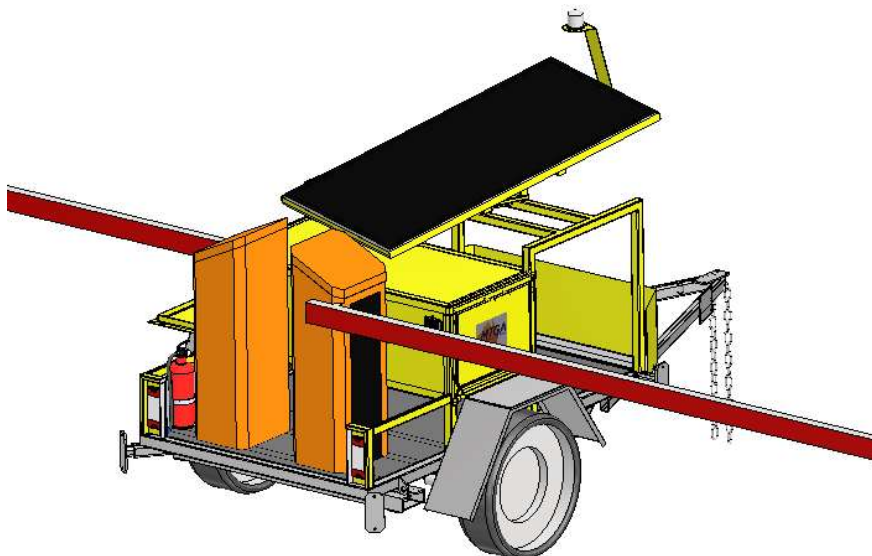
MTGA Boom Gate Options

Dual Boom Gates

- 5. Dual LV on skid with 3 solar panels

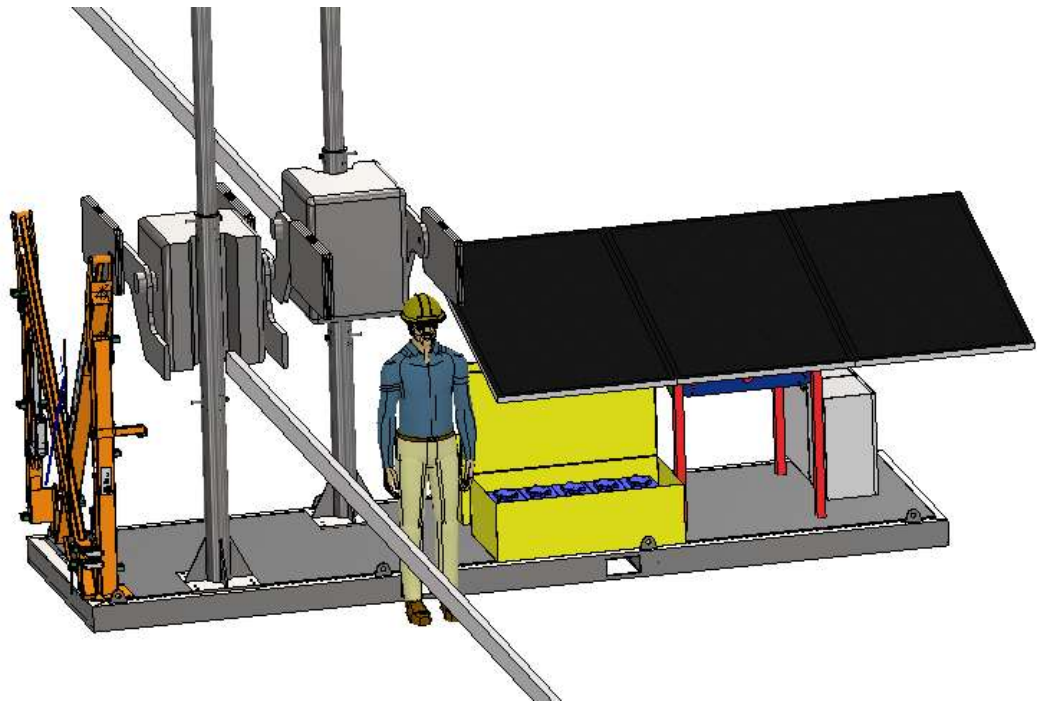


- 6. Dual LV boom gate on a trailer with 2 solar panels



MTGA Boom Gate Options

7. Dual S60 12m boom gate, skid mounted, with 3 solar panels and mast





MTGA Boom Gate Options

Questions to answer and help design a good access control solution

1. How and when do you want the boom gates to open? For example, using an RFID tag, a clicker or a central control room?
2. Length of boom required ie 6/8/10/12 metres and illuminated or non-illuminated?
3. How wide is the road you are trying to control and how many lanes does it have?
4. If multiple lanes, do you want 2 boom gates on opposite sides of the road? Or do you want two boom gates mounted in the middle of the road.

Observations:

Please find attached the latest designs. All have tilted panels that can be directed to the sun on a 15-degree angle (optimised for the Pilbara)

The S60 is imported and has a very long lead time > 6 months

1 solar panel is generally enough to power a boom gate. However, if other equipment is run off the system (eg radios or cameras), the system will need more power and therefore additional solar panels.

FMG Ironbridge are currently installing the first 2 options above on their site and Eliwana are ordering these too.