

THE DESIGN

The **REVROY** Brand of Boom Barrier **Model RR-TW-301 Series** is designed for **toll road operation** and it is for this reason that these barriers have been engineered and designed for robust and reliable operation. The simple design with soft round boom is ideal for high-speed operation demands of toll road operators & offer long reliable life. Moreover the Soft Foam over the Aluminium Boom Profile is for added safety and protection to the vehicle just in case the boom closes on a passing Vehicle. These barriers may also be used for applications other than toll that demand high speed opening & closing.



THE DRIVE

The Brushless DC Motor forms the heart of the Boom Barrier and provides the much-needed robustness so as to offer long reliable product life cycle. This is achieved by firstly preparing the body for the Drive Mechanism to sit on a frame that is made from Aluminium Alloy manufactured by Die-Casting with attention to precise dimensions.

The Movement adopts parallel gear reduction that has high transmission efficiency and low power loss. The gear itself is made from high strength carbon steel carburised with heat treatment process, precision hobbing, anti-wear, anti-impact engineering for long service life. The Motor itself is small in size yet delivering a large output torque. The Speed is adjustable through the controller. The Movement of the boom is smooth as it accelerates and decelerates smoothly in both its open & close end positions.

THE CONTROLLER

The controller of the REVROY Boom Barrier is all that one could ask for flexibility. When it comes to adjustment & arrangement of the functioning of the barrier it is indeed a versatile system with an array of adjustable parameters that our clients may demand, in specific to their site requirements.

Right from Boom Length adjustment combined with speed of operation for not just varied lengths but also position of braking, Varied options to engage the barrier to open and close etc., are all part of the controller settings offered for the convenience of the end user to decide, based on site conditions and demands. The System is delivered with a soft round boom arm. Loop Detector or Radar Sensor or P E Beam as an option can also be offered depending on the demands of the site.

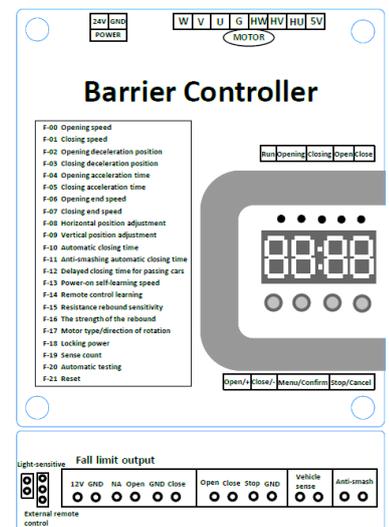
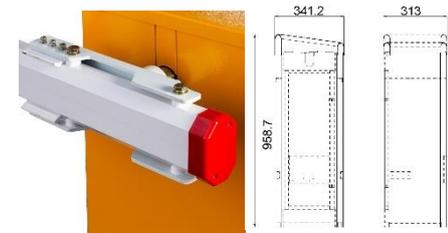


FIG.2

THE DIMENSIONS

The Barrier Cabinet is fabricated in mild steel & Powder Coated in Orange. It offers IP54 protection. The dimension of the Barrier is 341 mm X 313 mm X 958mm. The Round Boom is extruded Aluminium so as to offer least resistance against winds. The Soft Cover is for added protection to vehicles passing through the barrier. The Octagonal Boom is 90 mm in Height & 45 mm in width.



Technical Parameters	
Size	1050 X 350 X 240mm
Power Supply	220 VAC 50/60 Hz.
Open/close Speed	1.2s to 6.0s (Depending on arm length)
Working Temperature	-45°C ~ 85°C
Rated Power	100 Watts
Type of Motor	DC SERVO Motor
Motor No-load Speed	3000rpm
Output Power	56.8N.m
Humidity	≤95%
Remote Control Distance	≤100m (Open, Sunny Weather)
Protection	IP54
Max Boom Length	6M
Barrier Life Time	10 Million Cycles 35,000 Operations a day.
Operation During Power Failure	Manual Opening

Model No.	Boom Length	Type of Boom	Opening Speed in Secs.	Closing Speed in Secs.
Model RR-TW-301S 30	≤ 3000 mm	Soft Round Boom	0,6	0.6
Model RR-TW-301M 25	≤ 2500 mm	Octagonal	0.9	0.9
Model RR-TW-301M 30	≤ 3000 mm	Octagonal	0.9	0.9
Model RR-TW-301M 35	≤ 3500 mm	Octagonal	2.5	2.5
Model RR-TW-301M 40	≤ 4000 mm	Octagonal	2.5	2.5
Model RR-TW-301M 45	≤ 4500 mm	Octagonal	2.5	2.5
Model RR-TW-301M 50	≤ 5000 mm	Octagonal	4.5	4.5
Model RR-TW-301M 55	≤ 5500 mm	Octagonal	4.5	4.5
Model RR-TW-301M 60	≤ 6000 mm	Octagonal	4.5	4.5

WARRANTY

The Barriers come with a warranty of One Year from the date of Invoice or 18 Months from the date of Installation (whichever earlier) against manufacturing defect.

SERVICE & INSTALLATION SUPPORT

Service & Installation support can be offered through our "Tech Support" partners. Request for such support However, must be raised with the Technical Support Team @ REVROY.

BARRIER CABINET



FIG. 5



FIG. 6

Barrier Cabinets are orange in Colour. However, Special Colours may also be offered at Additional Cost depending on the colour.



BOOM



FIG.7

The Round Boom profile is an aluminium extrusions powder coated White in Colour with Red Reflective Tapes for better visibility. The Booms may be offered in various types to suite application and area of installation.



FIG. 8



FIG. 9

FOUNDATION DETAILS

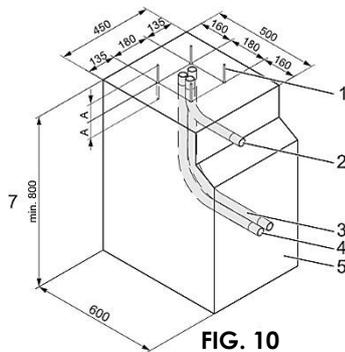


FIG. 10

1. Fixing bolts (4 pcs)
2. 29mm diameter cable tube for inductive coil wire
3. 29mm diameter cable tube for power wire
4. 29mm diameter cable tube for controller wire
5. Concrete basement (BH PC250, strength = 25N / mm²)

1. The concrete in the foundation is BH PC 250 grade concrete (strength 25N/m²).
2. The base surface must be smooth so that the barrier machine case can be level and horizontally installed on it. After the concrete has been poured, the fixing screw holes can be drilled on the base surface according to the positions shown on picture.
3. Drilling distance : 170mm (square arrangement, see picture.
4. Hole diameter : 16mm Hole depth: 100mm
5. After drilling the hole, install the four M16 × 150 set fixed screws in four holes.

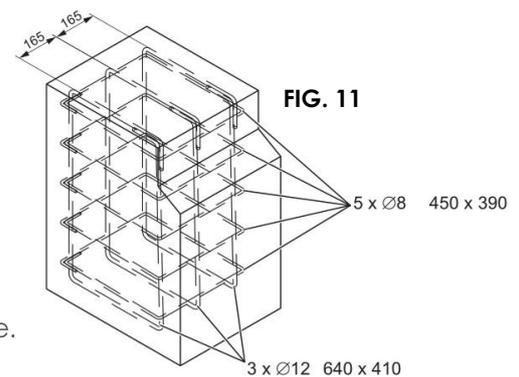


FIG. 11





REVROY

Solutions For Controlled Access

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