

# MARK TANK

HYDRAULIC SWING OPERATOR FOR RESIDENTIAL  
AND LIGHT COMMERCIAL APPLICATIONS.  
SEMI-INTENSIVE OPERATION.



## The strength and reliability of a hydraulic system!

- Hydraulic swing operator for residential / light commercial use. Maximum leaf length 4000 mm.
- **SEA TOTAL QUALITY:** All main components are manufactured and tested in-house ensuring the highest engineering standards.
- The electric motor and all operational components sit in an oil filled bath ensuring continuous lubrication and rapid cooling of all moving parts.
- Extremely quiet, extremely safe, extremely strong.
- Release with special key in case of power failure.
- Adjustable safety valves in both directions of travel to protect pedestrians, vehicles and even the automation against excessive forces.
- Electronic slow down at end of travel for elegant and smooth operation.
- Self locking operator for gates leaves up to 1800 mm; non locking operators combined with high security locks for gate leaves up to 4000 mm.

## Reliable , safe, silent, and secure!

- Brass and stainless steel internal valves and connectors making the Mark Tank one of the strongest domestic / light commercial operators available.
- The hydraulic system means that the Mark Tank can operate large gates without difficulty. The 20 mm piston and ball joint provide the extra strength and adjustment needed on heavier gates.
- New generation 220 Watt motor providing industrial strength and reliability on a domestic / light commercial operator.
- Easily accessible oil filler for future maintenance requirements.
- Thermal overload built in to the motor to provide the highest level of protection.
- All operator components available as spare parts.
- Supplied with necessary fitting accessories.

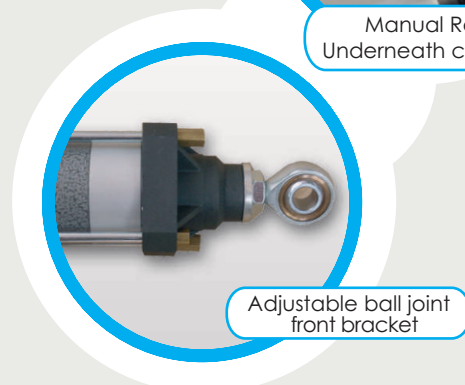
**When quality matters make sure it's SEA  
the engineers' choice!**



Adjustable safety  
by pass valves



Manual Release  
Underneath centre flange



Adjustable ball joint  
front bracket

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# MARK TANK

## Specifications

## Mark Tank

Supply Voltage	230Vac+5% 50/60Hz
Motor Power	220 W
Shaft Stroke	270 mm
Cycles Hour	50
Operating temperature	-20°C + 55°C
Operator Weight	11 Kg
Max leaf length	4000 mm
Opening Degrees	90° - 120°
Shaft Speed	1.2 cm/sec (1.0 ltr pump)
Protection class	IP55
Starting Capacitor	12.5 uF
Max Pushing Force	640 daN

### CONTROL BOARDS Technical Specifications

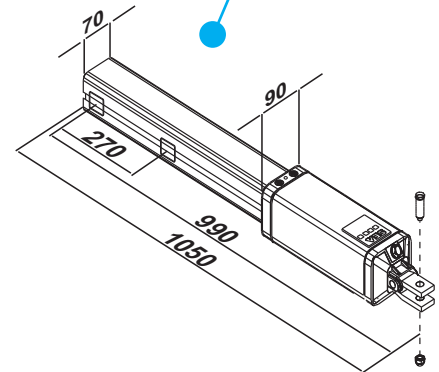
#### Gate 1 (for 1 leaf)

- Management of a 230 Vac motor with or without limit switch.
- Automatic logic (4 modes), semiautomatic and step by step logics.
- Electronic slow down in opening and closing.
- Motor run time and pause time regulation.
- Self-learning operating time for gate with limits.
- Self-test on photocells.
- Self-diagnostic system.
- Encoder management (Safety Gate for swing gates).
- Diagnostic Leds on all outputs/inputs.
- Extractable connectors for ease of wiring.
- Integrated receiver compatible with radio transmitters SMART, HEADROLL and HEAD ECOPY series (800 users).
- Fully compatible with all SEA accessories.
- Compatible with most manufacturers of audio and video intercom equipment.
- Digital code pads.
- Card reader systems, stand alone and computer linked.
- Time clocks and hold open switches.
- Induction loop free entry, free exit and safety.
- Photocell free entry, free exit and safety.
- Patented rubber mechanical safety edges.
- Vehicle recognition systems.
- Biometric identification systems.

#### Gate 2 (for 2 leaves)

- Management of two 230 Vac motors with or without limit switch.
- Four logic systems available semi-automatic, safety, step by step and standard automatic.
- Electronic slow down in opening and closing.
- Motor run time and pause time regulation
- Fully programmable leaf delay system in opening and closing.
- Self-test on photocells.
- Self-diagnostic system.
- Encoder management (Safety Gate for swing gates).
- Electric lock management.
- Diagnostic Leds on all outputs/inputs.
- Extractable connectors for ease of installation.
- Integrated receiver compatible with radio transmitters SMART, HEAD ROLL and HEAD ECOPY series (800 users).
- Optional control devices:-
  - Three different safety inputs as standard.
  - Pedestrian gate input.
  - Diagnostic functions.
  - End of travel limits and encoder movement sensing.
  - Stop circuits and flashing light system.
- Fully compatible with all SEA accessories.
- Compatible with most manufacturers of audio and video intercom equipment.
- Digital code pads.
- Card reader systems, stand alone and computer linked.
- Time clocks and hold open switches.
- Induction loop free entry, free exit and safety.
- Photocell free entry, free exit and safety.
- Patented rubber mechanical safety edges.
- Vehicle recognition systems.
- Biometric identification systems.
- Electronic torque sensors for electromechanical operators.
- Compatible with most manufacturers automation equipment both hydraulic and electro-mechanical.
- Optional display system:-
  - Alphanumeric LCD display 2 lines of 16 letters.
  - Modify all program times.
  - 10 event safety system fault recording.
  - Customisation of logic functions.
  - Full diagnostic functions..

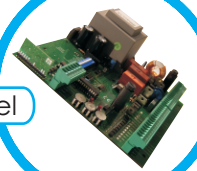
### Operator Dimensions in (mm) MARK TANK



#### Accessories.

Loop detectors / Photocells / Key pads / Card readers / Transmitters & receivers/ Telephone entry systems / Audio and video intercom systems wired and wireless.  
Vehicle recognition systems / Biometric recognition systems / Patented rubber mechanical safety edge / Time clocks / Hold open switches.

#### Gate 2 Control Panel



Stroke	D Max	D Max Recommended
270 mm	125 mm	75 mm

#### SAFETY GATE

SEA patented reversing system for swing gates.  
Self learning movement sensor for additional safety.  
EN 12453 & EN 12445 tested



#### Optional physical Stops



#### Battery Photocells