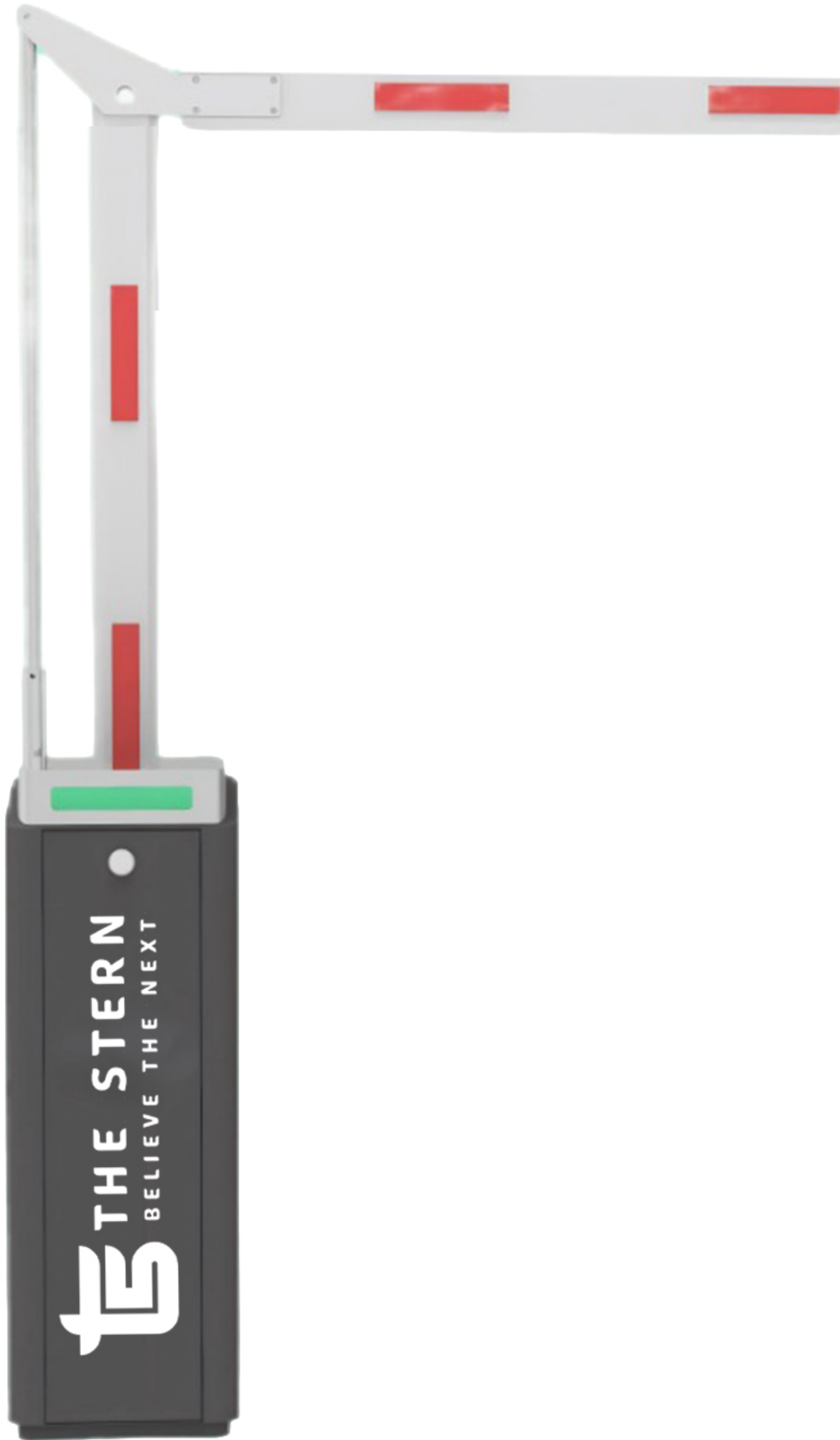




BOOM BARRIER

STR-HS-ECO



THE STERN STR-HS-ECO Vehicle Boom Barrier is a cost-effective, high-performance access control solution engineered for smooth traffic regulation, reliable operation, and long service life. Featuring an advanced DC brushless motor, intelligent control system, stable mechanical structure, and multiple safety interfaces, the STR-HS-ECO ensures efficient, secure, and maintenance-friendly performance for modern parking and access control environments.

Design & Build Quality

- * Integrated Mechanical & Electrical Structure: Quick assembly and easy maintenance
- * High-Precision Molding Production: Ensures consistent quality and structural accuracy
- * Curved Triple Connecting Rod / Crank Arm Structure: Stable movement and easy adjustment
- * Interchangeable Boom Arm: Arm can be quickly replaced on site

Drive System & Transmission

- * Worm-Gear Secondary Variable Speed Transmission:
- * Manual operation via motor wheel during power failure
- * Automatic reset after power restoration
- * No blocking or oil leakage
- * Large torque and low noise
- * Reliable operation at extreme temperatures
- * DC Brushless Motor Technology:
- * Low power consumption
- * High efficiency
- * No overheating
- * Wide speed adjustment range

Operating Speed & Control

- * Adjustable Operating Speed: 2.5 seconds to 8 seconds
- * Wireless Remote Control: Open / Close operation
- * Auto-Delay on Closing: Fully adjustable





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Smart Control & Electronics

- * Hall Limit Technology:
- * Automatic limit detection on power ON
- * Real-time motor speed monitoring
- * Constant-speed operation
- * Advanced DC Brushless Controller:
- * Integrated chip drive
- * Fast processing speed
- * Powerful multi-function control system
- * 24V Low Voltage Power Supply compatible with global voltage standards

Interfaces & Integration

- * Parking Management System Integration: Dry contact & wire control
- * Dry Contact Outputs: COM, NC, NO
- * Traffic Light Connector: AC 220V, Power < 40W
- * Loop Detector Connector: Available
- * Infrared Photocell Connector: Available
- * RS485 or CAN Communication Interface: Built-in (no external module required)
- * Counting Interface: Available
- * Red & Green Traffic Light Relay Output: Supported

Safety & Protection Features

- * Auto-Reverse Function: Adjustable force sensitivity (Optional)
- * Swing-Out Arm Function: Reduces damage in case of vehicle impact (Optional)
- * Anti-Collision Alarm Device: Alerts during collision events (Optional)
- * Multiple Anti-Smashing Interfaces: Loop detector + IR sensor compatibility
- * Low Voltage Safety System: Enhanced electrical protection

Typical Applications

- * Parking Lots
- * Residential Complexes
- * Commercial & Office Buildings
- * Industrial Premises
- * Gated Communities
- * Toll Plazas





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STR-HS-ECO

DESCRIPTION	PARTICULAR
Make	THE STERN
Model	STR-HS-ECO
Material of Construction	2mm cold-rolled steel sheet Iron
Application	Indoor/Outdoor
Housing Dimension (in mm)	365(L)*290(W)*1010.5(H) mm
Boom Arm	45*80 mm Aluminium alloy arm
Arm Length	1 - 6 Mtrs
Arm Direction	Left/Right Fixed
Operating Temperature	-30 ~+70 °C
Motor	24V DC ,150W DC Brushless Motor
Controller	DC Brushless controlled board
Open / Close Time	2.5S-8S(Adjustable),depends on boom length
Features	Loop Detector,radar,infrared optional
Wireless Remote	≤100M(in the open place)
Communication Interface	RS 485 or CAN
Ingress Protection	IP54
Duty Cycle	100%
MTBF	5 million cycle
Humidity	≤85%
Noise During Operation	Less than 60 dB
Weight of Product	40KG(No boom included)





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DIMENSIONS

