

CRASH

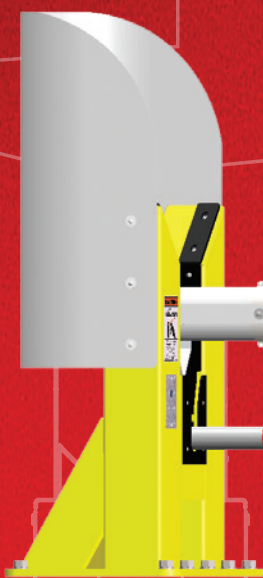
Strong Arm CRASH™



M30 (K4)



Patent Pending



M50 (K12)



Patent Pending

 HySecurity®

a company of TheNiceGroup

StrongArmCRASH™

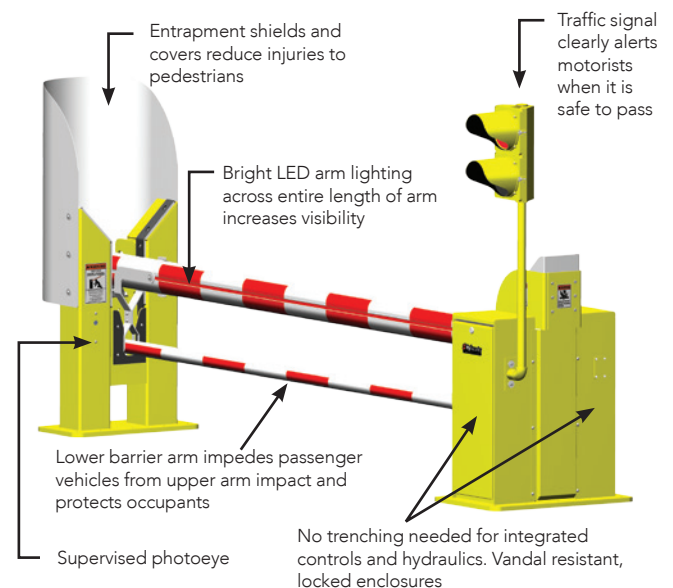
ULTIMATE HARDENED SECURITY

StrongArm M30 & M50 take barrier arms to the extreme. These machines stop a 15,000 lb truck driving 30 mph (and 50 mph respectively) in its tracks. While they protect nuclear power plants, government agencies, Department of Defense facilities and many other key assets, they also protect against accidental injury and death. Nearly all crash barrier accidents happen to authorized gate users, posing significant user peril and owner liability exposure. StrongArm M30 & M50 mitigates this fact by employing many standard safety benefits not offered by competitor operators.



UNMATCHED USER SAFETY

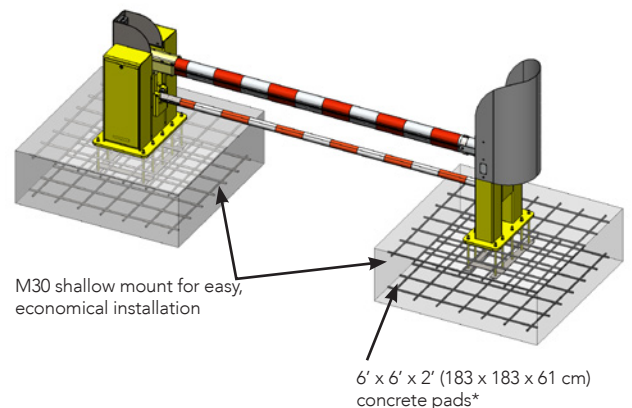
- **Lower barrier arm** ensures that initial impact on small passenger vehicles occurs at the front of the vehicle, slowing or stopping the vehicle before upper barrier arm impacts the passenger compartment. Most other designs, without a lower arm, would hit at windshield level sheering off the top half of a smaller vehicle. A smaller vehicle is more likely to be driven by a non-threatening innocent motorist.
- **Entrapment shield** around catch post prevents potential pedestrian entrapment or injury.
- **Bright LED arm lighting** increases visibility, especially at night and in harsh weather, to prevent accidental collision.
- **Integrated photo eye** automatically detects people or vehicles in the way of the barrier arm during closing.
- **Traffic signal** clearly alerts motorists when it is safe to pass through the barrier arm opening.



StrongArm M30

SIMPLE, LOW COST INSTALLATION

- **Plate mount design** allows foundation construction independent of equipment installation.
- **Self contained controls and hydraulics** reduce the need for expensive and time consuming trenching of hydraulic hose and wiring to a remote control panel.
- **Ultra rugged hot dipped galvanized steel for optimal corrosion protection.** Available option: Durable "Signal Yellow" polyester powder coat over zinc plate for an enduring, attractive finish.
- **Shallow M30 mount** foundation reduces installation time and worries about utilities, water table, and other site concerns.



*4 ft³ (1.22 m³) pad configuration also available for StrongArm M30

Crash Tested Barriers

StrongArm (M30)TM Patent Pending

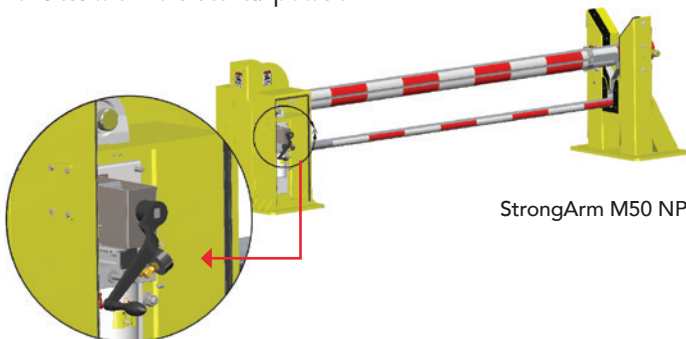
- Crash certified to **ASTM F2656-07 M30-P1** stops a 15,000 lb (6.8 metric tons) truck traveling 30 mph (48 km/h). Penetrated less than 1 meter.
- **Fast arm speed**, 6-8 seconds, reduces traffic backup by minimizing gate open time thus allowing more vehicles per hour in fewer lanes.
- Deploy barrier arm in response to a threat in as little as 5 seconds with **Emergency Fast Close**.
- **Unique dual arm design** prevents a large truck or a small passenger vehicle from breaching the security perimeter.
- **Foundation** 6 x 6 x 2 ft (183 x 183 x 61 cm) or 4 ft cube (122 cm cube); 3,000 psi concrete, #5 rebar, grade 60

StrongArm (M50)TM Patent Pending

- Crash certified to **ASTM F2656-07 M50-P2** stops a 15,000 lb (6.8 metric tons) truck traveling 50 mph (80 km/h). Penetrated less than 1.3 meters.
- **Fast arm speed**, 6-8 seconds, reduces traffic backup by minimizing gate open time thus allowing more vehicles per hour in fewer lanes.
- Deploy barrier arm in response to a threat in as little as 5 seconds with **Emergency Fast Close**.
- **Unique dual arm design** prevents a large truck or a small passenger vehicle from breaching the security perimeter.
- **Foundation** 6 x 6 x 4 ft (183 x 183 x 122 cm) 4,000 psi concrete, #6 rebar, grade 60

StrongArm CRASH NPTM

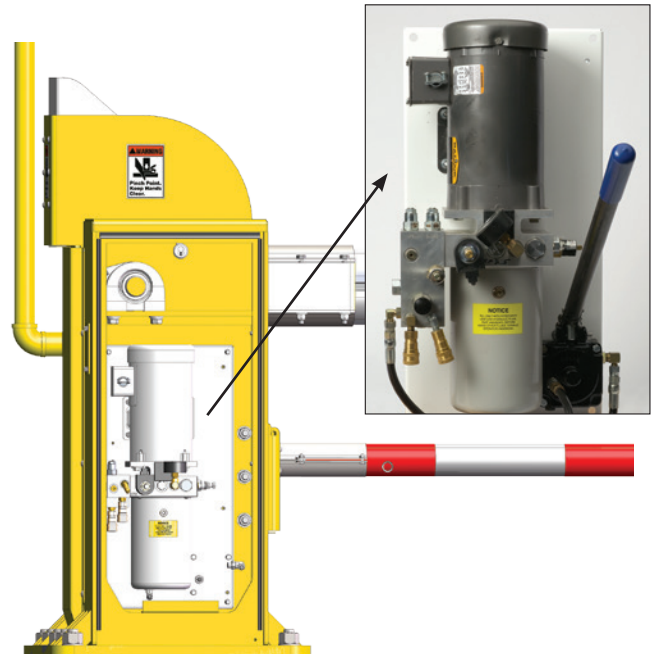
StrongArm M30 NP/M50 NP (No-power) models. This manually operated, crash certified ASTM F2656-07 M30 or M50 barrier arm reliably defends low cycle high security sites or sites with no electrical power.



Ultra Reliable

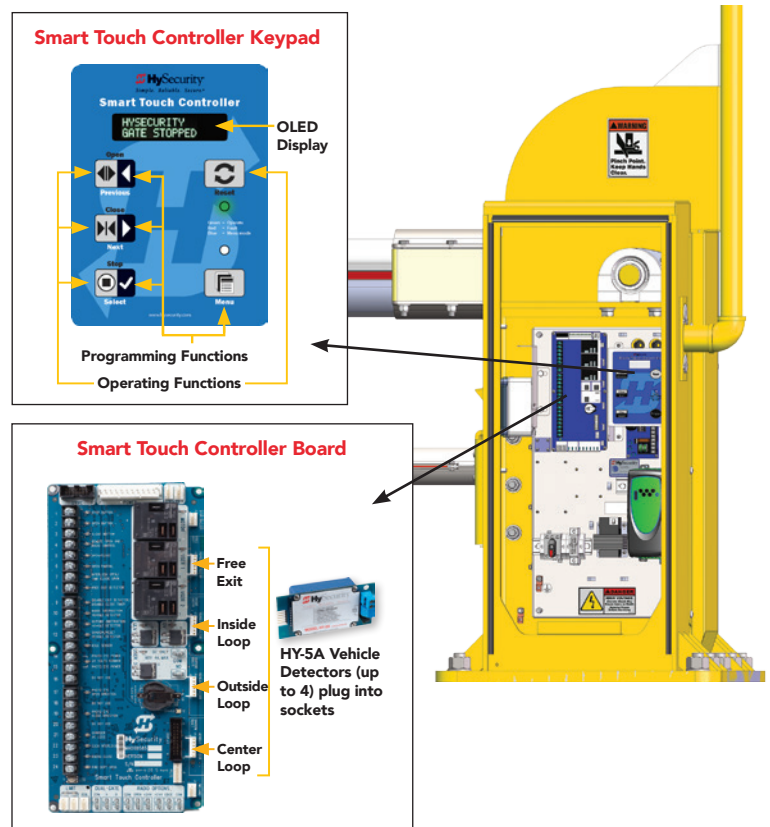
PROVEN HIGHEST RELIABILITY DRIVE

- **HySecurity operators thrive for decades** with minimal maintenance. We've manufactured hydraulic industrial and crash gate operators since 1980, many of which secure high security ACPs.
- **Variable flow hydraulic system** generates optimized barrier arm motion, enabling high speed, ultra smooth operation which prevents bounce or excessive wear on components.
- **Double acting hydraulic system** opens barrier arm to full 90° vertical and allows hydraulic locking in closed position which eliminates the need for external locking devices.
- **Simple, compact hydraulic system** contains only one gallon of high performance hydraulic fluid. Biodegradable fluid available upon request.
- **-40° F to 158° F (-40° C to 70° C)** or **-10° F to 158° F (-23° C to 70° C)** using biodegradable fluid. Operates without fail in the hottest and coldest climates.



PROVEN INTEGRATED, INTELLIGENT CONTROLS

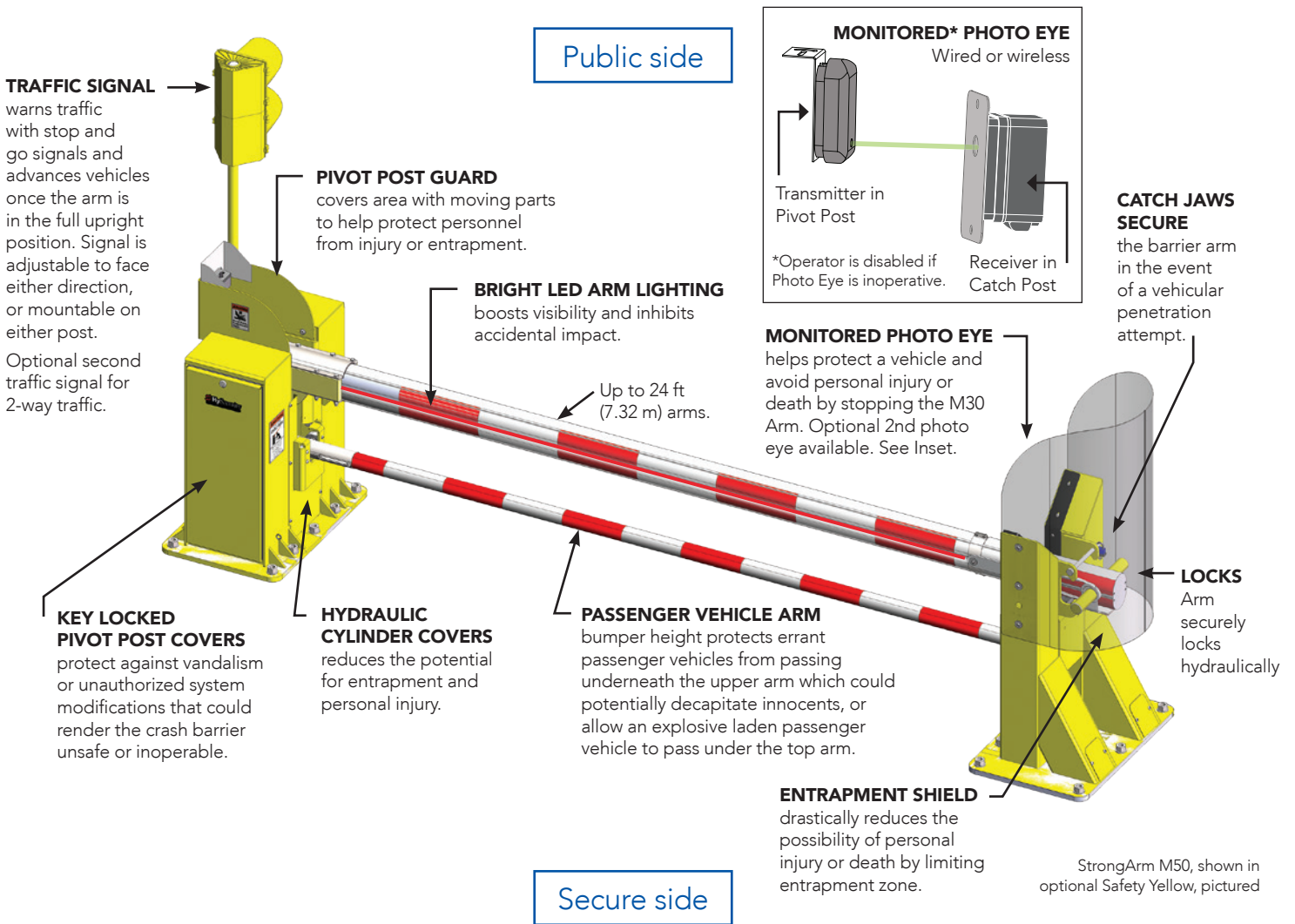
- As the most reliable microprocessor-based control board in the industry, the **Smart Touch Controller** supplies extensive features, plus RS-485 command and control interfacing for networking systems.
- **Smart Touch Control** gives you seamless synchronization with all HySecurity operators for dual gate, sally port or sequenced gate applications.
- Over **10 years of proven field reliability** communicating alerts, status, faults, and security breach conditions.
- Smart Touch Controller and keypad are conveniently and securely mounted **inside the operator**.
- **Integrated encoder provides precise arm positioning** and enables precise motion control eliminating the vulnerability of exposed mechanical limit switches.
- **Connect to a laptop** using HySecurity's Smart Touch Analyze and Retrieve Tool (S.T.A.R.T.) computer interface to upload the latest operator software, download fault logs, generate diagnostics, and program the operator.
- **Communications protocol** smooths out power spikes and reduces field calls.



Crucial User Safety & Security

USER SAFETY IS NOT OPTIONAL

Many user safety devices are standard equipment on the StrongArm M30 and M50, reducing possibility of injury and end user liability.



ADDITIONAL SAFETY FEATURES

BUZZER Standard equipment in all HySecurity products, the WARN BEFORE BUZZER provides a loud audible beep in short continuous bursts 3 seconds prior to the barrier moving open or close and all the while the barrier arm is in motion.

HY-5A Using HY-5A vehicle detectors eliminates the possibility of loop crosstalk since each loop is assigned its own frequency range. False close signals due to crosstalk are never an issue.

ADDITIONAL SECURITY FEATURES

NO EXTERNAL LIMIT SWITCHES or resetting the limits after power loss. The hydraulic cylinder incorporates magnetic sensors, alleviating the need for vulnerable external limit switches or recalibration.

REMOTE OPERATOR PANEL operates the crash barrier from a secure location keeping area personnel out of harm's way.

MAG LOCK option available.

UPS BACKUP Optional 230V AC Power Supply with HyInverter AC™ provides UPS battery backup for 208/230VAC, single-phase AC gate operators. Retain full functionality during an AC power outage.

Strong Arm CRASH™

TYPICAL SITES

- Ports
- Petrochemical
- Nuclear
- Hydroelectric
- Embassies
- Highway
- Airport
- Critical infrastructure
- Military base
- Secure corporate facilities
- Car rental facilities

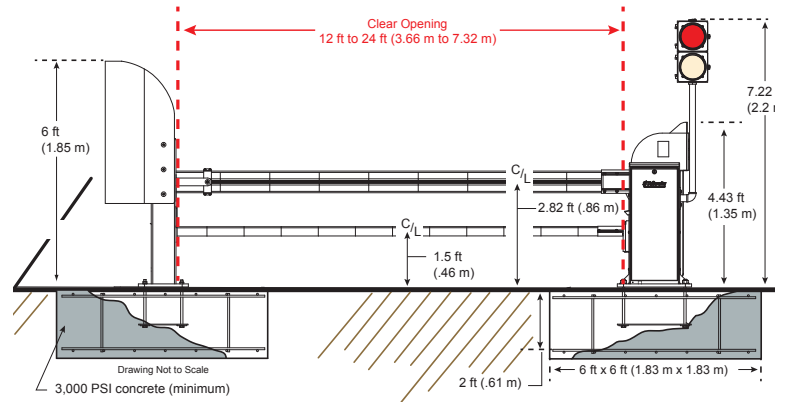
STANDARD BENEFITS

- Ultra reliable hydraulics and controls
- Extremely low maintainence
- Highest lifetime value - lowest lifetime cost
- Dual arm design
- Highly visible LED lighting across entire length of upper arm
- Traffic signal
- Supervised photo eye
- Emergency Fast Close
- Hand pump for manual operation
- Integrated encoder provides precise arm positioning
- NEMA 3R all weather enclosure with superior hot dipped galvanized anti-corrosion finish
- Arm securely locks hydraulically
- Wide temperature range fluid standard. No heater necessary

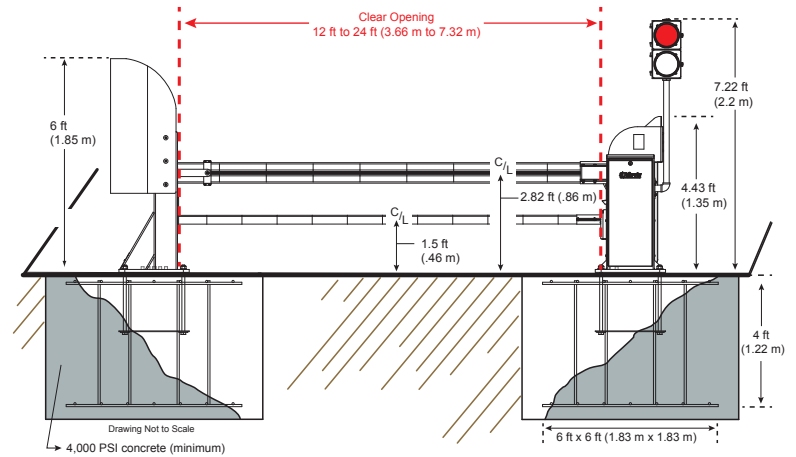
OPTIONAL BENEFITS

- HY-5A vehicle detectors (plug-in)
- HyNet™ Gateway accessory
- Biodegradable, non-toxic fluid
- Heater, recommended for biodegradable, non-toxic fluid in cold climates
- Main and remote operator panels
- Mag lock for additional security
- Custom color paint
- Secondary traffic signal for bi-directional traffic
- Uninterruptible Power Supply (UPS) for many cycles after AC power loss

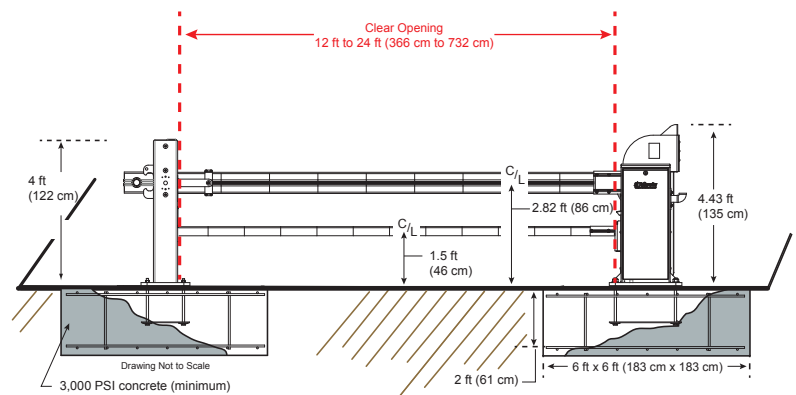
SYSTEM DESIGN SUPPORT: Contact HySecurity for CAD drawings, specifications, help with custom site requirements, installer referrals, and other technical support. www.hysecurity.com



StrongArm M30 operator, barrier arm, and foundation dimensions



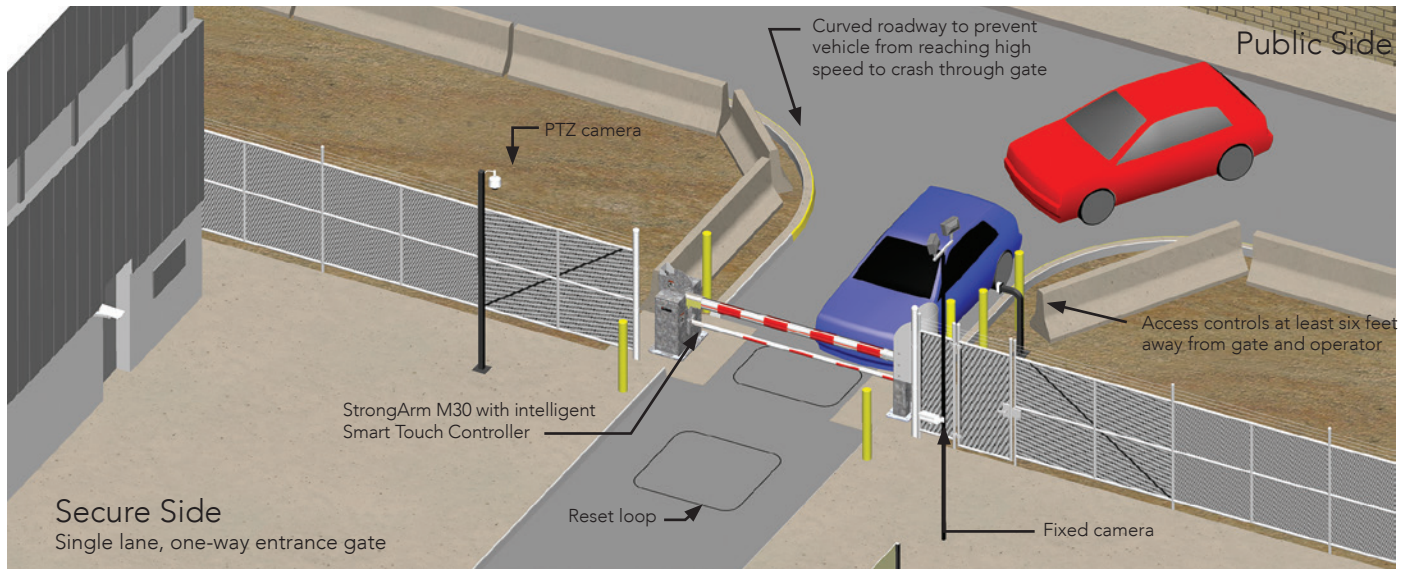
StrongArm M50 operator, barrier arm, and foundation dimensions



StrongArm Manually Operated M30 NP operator, barrier arm, and foundation dimensions

SPECIFICATIONS

StrongArm™ M30/M50 Gate System



StrongArmCrash gate system with required and optional accessories.

StrongArmCrash™

Model	StrongArm M30	StrongArm M50	StrongArm M30 NP	StrongArm M50 NP
Crash Certified	ASTM F2656-07 M30-P1*	ASTM F2656-07 M50-P2*	ASTM F2656-07 M30-P1*	ASTM F2656-07 M50-P2*
Duty Cycle	100 cycles/hr**, option for continuous duty		Manually operated	Manually operated
Horsepower	2 hp		—	—
Drive	Hydraulic		—	—
Open/Close Time	6 to 8 seconds depending on arm length		Open time: approx. 60 to 120 seconds depending on arm Close time: approx. 15 to 25 seconds depending on arm	
Emergency Fast Close Time	5 to 7 seconds depending on arm length		—	
Clear Opening	12 to 24 ft in 2 ft increments (366 to 732 cm in 61 cm increments) Call for custom arm length	12 to 24 ft in 2 ft increments (366 to 732 cm in 61 cm increments) Call for custom arm length	12 to 24 ft in 2 ft increments (366 to 732 cm in 61 cm increments) Call for custom arm length	
Full Open Angle	Adjustable 90° ± 5°		Adjustable 90° ± 5°	
Ingress Protection	IP56		IP56	
Temperature Rating	-40° to 158° F (-40° to 70° C) or -10° to 158° F (-23° to 70° C) using biodegradeable fluid		40° to 158° F (-40° to 70° C) or -10° to 158° F (-23° to 70° C) using biodegradeable fluid	
1 Phase Power	208/230V, 60/50 Hz 20A		—	
3 Phase Power	208/230V, 60/50 Hz, 380/460V, 60/50 Hz		—	
Communication	RS-232, RS-485, Ethernet/fiber using optional HyNet™ Gateway accessory		—	
User Controls	Smart Touch Controller with 70+ configurable options. Smart Touch keypad and display or a PC using S.T.A.R.T. software.		—	
Relays	Three configurable user relays: one 30VDC, 3A solid state and two 250VAC, 10A electromechanical; Optional Hy8Relay™ for 8 additional relay outputs		—	
Finish Type	Hot dipped galvanized standard. Optional textured yellow powder coat over zinc plating.		Hot dipped galvanized standard. Optional textured yellow powder coat over zinc plating.	
Foundation	6 x 6 x 2 ft (183 x 183 x 61 cm) or 4 ft³ (122 cm³), 3,000 psi concrete, #5 rebar, grade 60	6 x 6 x 4 ft (183 x 183 x 122 cm) 4,000 psi concrete, #6 rebar, grade 60	6 x 6 x 2 ft (183 x 183 x 61 cm) or 4 ft³ (122 cm³) 3,000 psi concrete, #5 rebar, grade 60	6 x 6 x 4 ft (183 x 183 x 122 cm) 4,000 psi concrete, #6 rebar, grade 60
Electrical Certification	Control panel certified to UL 508A by ETL		—	
Warranty	5 year		5 year	
UPS Backup Power				
AC Power Supply with HyInverter AC***	StrongArm M30 with HyInverter AC	StrongArm M50 with HyInverter AC	—	

*Contact HySecurity to receive a copy of the ASTM F2656-07 M30/M50 Test Certifications. StrongArm M50 received a P2 rating with penetration limited to 1.17 meters.

**ExtremeCycle option available

***The operator's normal duty cycle and the actual number of gate cycles available from battery depends upon gate resistance to travel, cycle length, battery size, state of charge and health, ambient temperature, accessory power draw and frequency of gate cycles during power outage.

Strong Arm (M50)™ K12



Strong Arm (M30)™ K4

