

HySecurity[®]

Simple. Reliable. Secure.®

Gate Operators
Accessories
System Integration and
Specifications



SECURITY REPORTING AND INTEGRATION

High security sites require perimeter integration and communication with the facility security infrastructure.

HySecurity operators detect, interpret and report security, malfunction, operation and safety incidents. The illustrations on this page show HySecurity's built in anti-tailgating system and the sequence of events that trigger SlideDriver™ to interpret and report the tailgating event.

Many HySecurity operators simply stand alone and are not integrated into the facility security infrastructure. These units offer unparalleled field diagnostics and event reporting to minimize complicated gate system troubleshooting and gate down time due to system component failure.

HySecurity's Smart Touch software is regularly enhanced to increase the number of security incidents that inform the command and control security system. A five year old, 500,000 cycle operator is easily and quickly field updated by facility service technicians to the latest free software upgrade, adding the newest reporting and event detection enhancements.

ALERT, REPORTING, AND ACTIVATION EXAMPLES

Security hardening and breach reporting

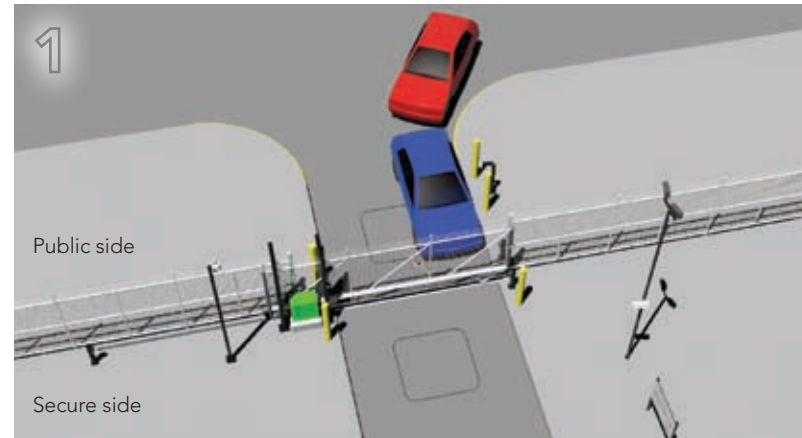
- Tailgating
- Gate open too long
- Unauthorized vehicle entry
- Gate forced open
- Vehicle loitering outside
- Sequence multiple gates easily (slide, swing, barrier arm, crash wedge)
- Trigger external cameras, floodlights, sirens, flashers

Gate malfunction

- Gate failure to operate and why
- AC power failure
- Malfunction of vehicle detector or loop (HY-5A vehicle detector)

Gate operation

- Gate-vehicle impact
- Gate fully closed
- Gate fully opened
- Gate partially opened



SlideDriver detects...

- Gate external lock activation/deactivation
- Master slave multiple gates easily (slide, swing, barrier arm, crash wedge) and many more

Safety

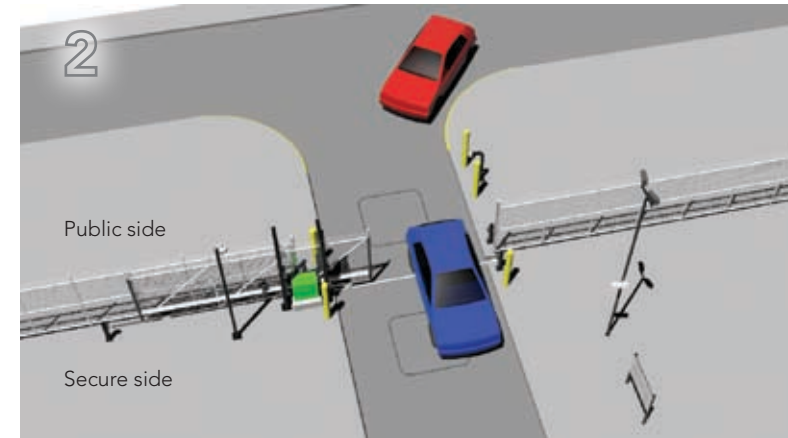
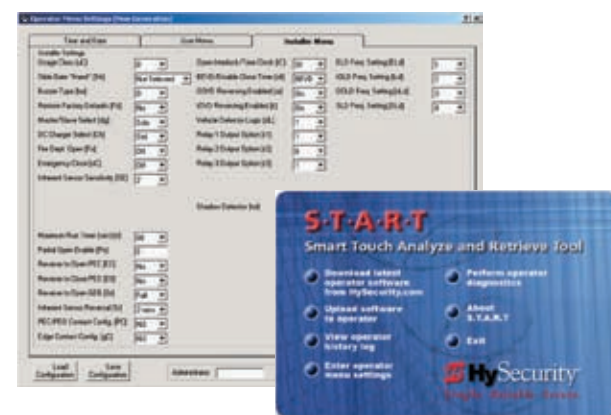
- Warn before and/or during operation buzzer
- Turn on flashing lights before and/or during operation
- Turn on siren before and/or during operation
- Safe mode: Gate edge or inherent sensor triggers an obstruction or gate hit condition
- Entrapment mode: Two successive IES sensor activations (gate hits)

Communication to site security system

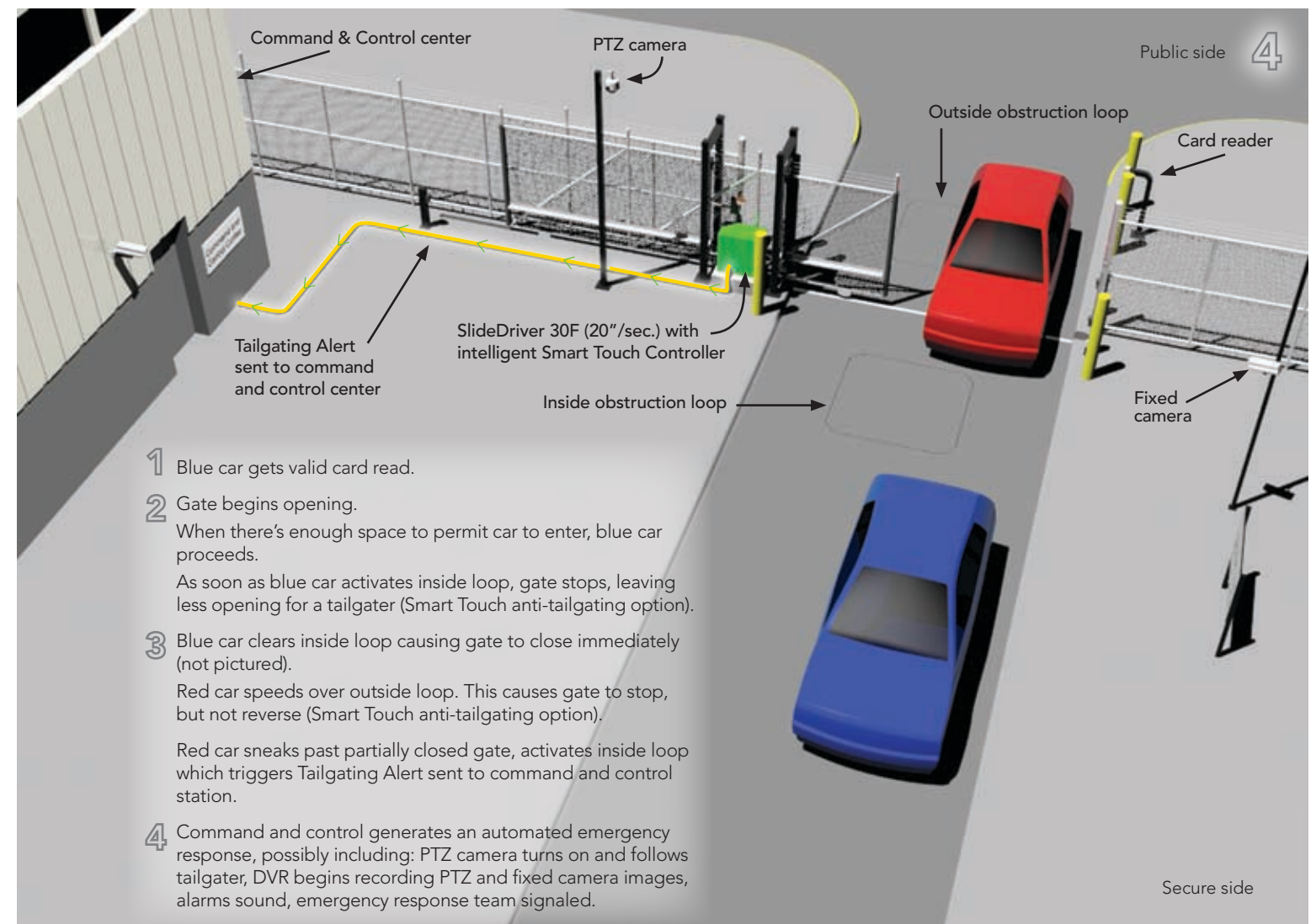
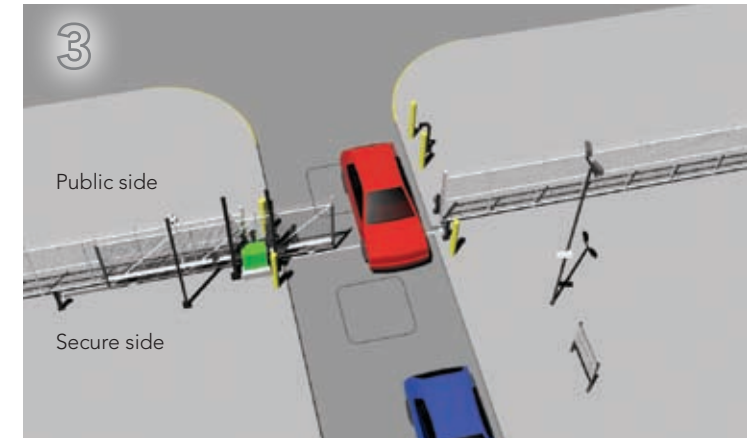
- RS 485
- RS 485 to Ethernet
- Direct connection to one or more Smart Touch user relays

S.T.A.R.T.

Smart Touch Analyze and Retrieve Tool allows users to upload new operator software, download fault logs, generate diagnostics, and program the operator.



...nearly thwarts and then reports a tailgating incident to the site command and control center.



- 1 Blue car gets valid card read.
- 2 Gate begins opening. When there's enough space to permit car to enter, blue car proceeds. As soon as blue car activates inside loop, gate stops, leaving less opening for a tailgater (Smart Touch anti-tailgating option).
- 3 Blue car clears inside loop causing gate to close immediately (not pictured). Red car speeds over outside loop. This causes gate to stop, but not reverse (Smart Touch anti-tailgating option). Red car sneaks past partially closed gate, activates inside loop which triggers Tailgating Alert sent to command and control station.
- 4 Command and control generates an automated emergency response, possibly including: PTZ camera turns on and follows tailgater, DVR begins recording PTZ and fixed camera images, alarms sound, emergency response team signaled.



Industrial – Ohio

SlideDriver™

Industrial, government, aviation, military, corporate, commercial, correctional facility

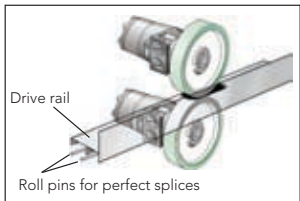
The original ultra-reliable and secure hydraulic slide gate operator chosen for thousands of secure sites nationwide. Fully enclosed hydraulic motors drive a rigid drive rail passing between two compressed polyurethane wheels. Few moving parts. Lasts decades.

Site: Mission critical high security and reliability. High cycle. Light to extremely heavy gates. Very long gates. Crash gates. Any gate style. Quick open. Low maintenance.

Typical Sites: Airport, government, freight handling, nuclear, power, railway, military base, embassy, water treatment, petrochemical, correctional facility, law enforcement, port, sports arena.

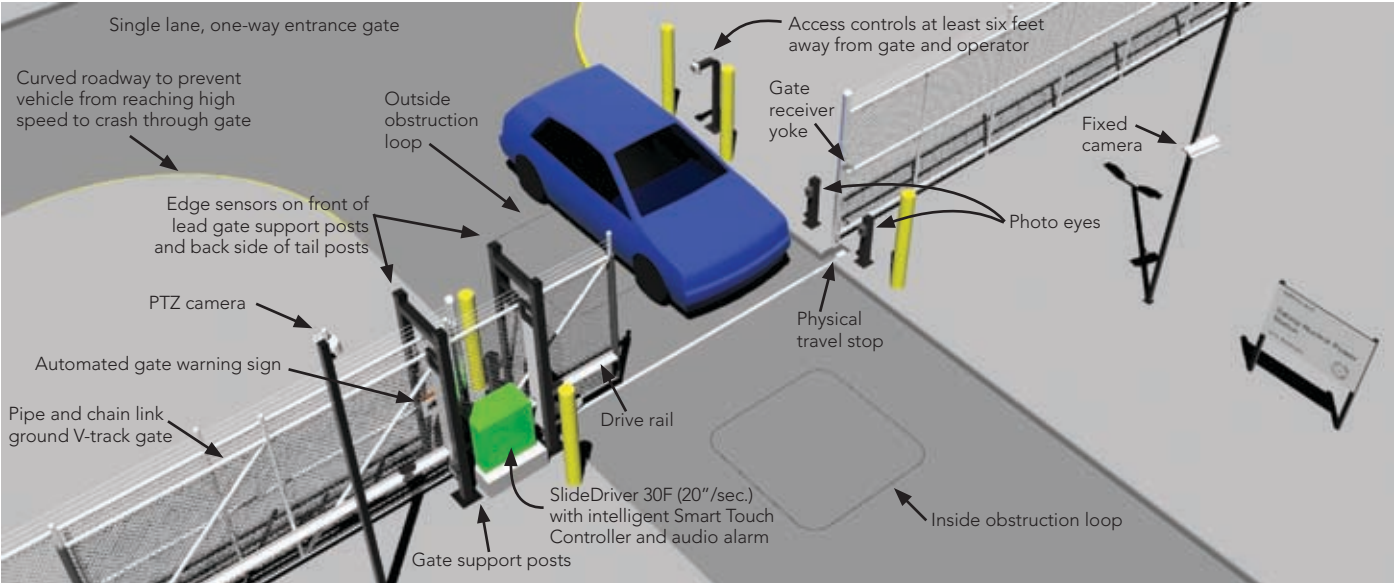
Operator: Continuous duty. Hydraulic. Smart Touch Controller with diagnostics and integrated security reporting (page 2-3). 1 to 3 ft. per second, up to 20,000 lb. gate. Gate length limited only by weight. All voltage/phases. Steel cover. Out-of-box synchronization with all HySecurity operators for master-slave, sally port or other specialized, multiple operator applications.

Options: HY-5A intelligent vehicle detectors, 12" base riser, tamper proof heavy gauge cover, cabinet lock, specialty gate locking kits, UPS battery backup, snowbrush kit, custom colors, more. Compatible with all available access control, safety, vehicle detection and many other accessories.



Power transmission: hydraulic motors to drive rail. Polyurethane drive wheel tread eliminates the high wear, metal-to-metal contact of conventional chain-drive systems.

SlideDriver™ Gate System



SlideDriver gate system with some required and optional accessories.



Aviation – Oklahoma



Utilities – Oklahoma



Correctional Facility – California

Special Models

Correctional Facility: All SlideDriver features plus 10 gauge cover for added protection and 3 options for the included high security lock: T-lock (including lock), padlock hasp, or series 1010 preparation (lock not included). Can be programmed for sally port, external lock mechanisms, and gate position indication. Available with an optional internal deadbolt gate lock.

Modular: Modular operators are normally chosen for high security sites, applications requiring special high or low mounting or where extremely quiet operation is necessary. All standard SlideDriver features plus an electrical control box, pump and motor assembly remotely located in a separate, metal enclosure. The only equipment left in the SlideDriver chassis are quiet wheel assemblies, hydraulic motors, and limit switches. The control box must be located within 100 feet of the operator.

Fast: SlideDrivers are available in fast, 1.7 to 3 fps models for high security, non-public applications (UL class III & IV only).
UPS Backup: All SlideDriver UPS models provide full functionality during AC power outage using DC power from uninterruptible power supply batteries (UPS). 3,000' back-up travel provided by two, 110 Amp hour batteries and a 25 Amp charger, depending on model. The ultimate in reliable security.

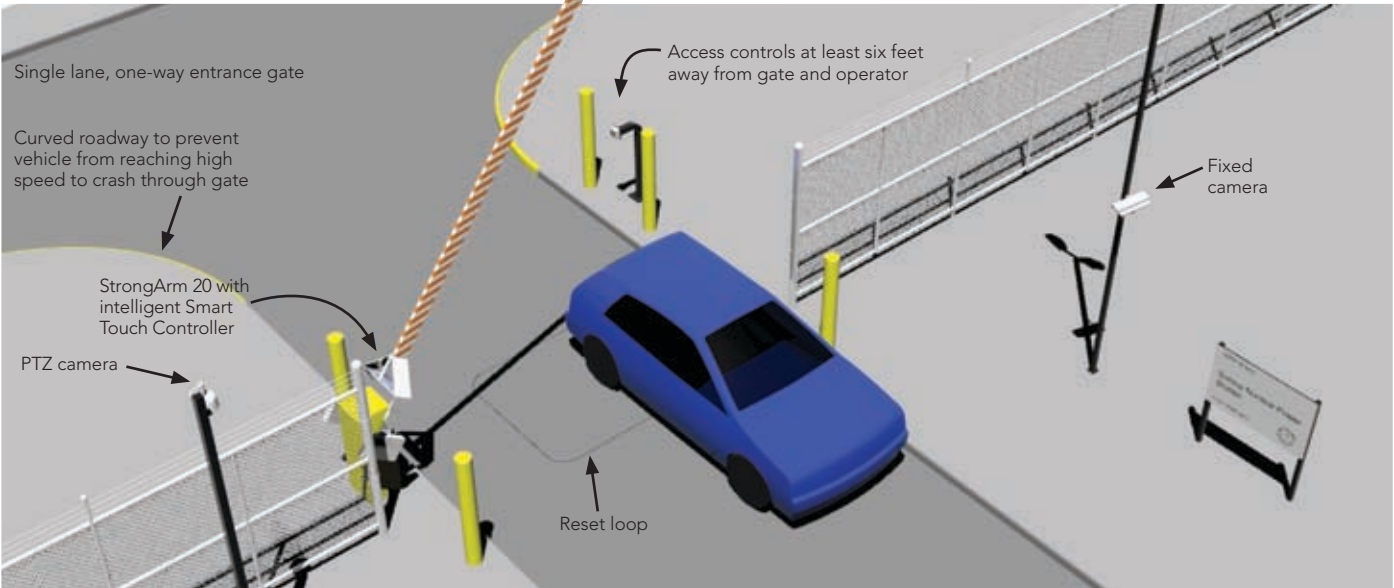
	1,000 lb. Gates 12" / sec.	4,000 lb. Gates 12" / sec.	3,000 lb. gates 20" / sec.	5,000 lb. gates 26" / sec.	5,000 lb. gates 36" / sec.	8,000 lb. gates 12" / sec.	20,000 lb. gates 12" / sec.
Model	SlideDriver 10*	SlideDriver 40*	SlideDriver 30F*	SlideDriver 50VF2	SlideDriver 50VF3	SlideDriver 80*	SlideDriver 200*
Part #	222 SS	222 E	222 EX 1.7	222 X2	222 X3	222 X1	444 XS
Duty Cycle	Continuous	Continuous	Continuous	Continuous	Continuous	Continuous	Continuous
Horsepower	1 hp	1 hp	2 hp	2 hp	2 hp	2 hp	5 hp
Drive Wheels	2 – 6" wheels	2 – 6" wheels	2 – 6" wheels	2 – 8" wheels	2 – 8" wheels	2 – 8" wheels	4 – 8" wheels
Gate Weight	1,000 lb. gate max.	4,000 lb. gate max.	3,000 lb. gate max.	5,000 lb. gate max.	5,000 lb. gate max.	8,000 lb. gate max.	20,000 lb. gate max.
Gate Length	Limited only by weight	Limited only by weight	Limited only by weight	Limited only by weight	Limited only by weight	Limited only by weight	Limited only by weight
Drawbar Pull	300 lb.	300 lb.	300 lb.	300 lb.	300 lb.	600 lb.	1,200 lb.
Rate of Travel	1 ft/sec.	1 ft/sec.	1.7 ft/sec.	2 ft/sec.	3 ft/sec.	1 ft/sec.	1 ft/sec.
1 Phase Power	115/208/230 60 Hz. 50 Hz. available	115/208/230 60 Hz. 50 Hz. available	208/230 60 Hz. 50 Hz. available	200 to 240 VAC 50 & 60 Hz	200 to 240 VAC 50 & 60 Hz	208/230 60 Hz. 50 Hz. available	230V 60 Hz. only
3 Phase Power	208/230/460/575 60 Hz. 50 Hz. available	208/230/460/575 60 Hz. 50 Hz. available	208/230/460/575 60 Hz. 50 Hz. available	200 to 240 VAC 50&60 Hz 380 to 480 VAC 50&60 Hz	200 to 240 VAC 50&60 Hz 380 to 480 VAC 50&60 Hz	208/230/460/575 60 Hz. 50 Hz. available	208/230/460/575 60 Hz. 50 Hz. available
UL Listing	I, II, III, IV	I, II, III, IV	III, IV	III, IV	III, IV	III, IV	III, IV

All above models available in correctional facility and/or modular versions.
*Available as optional DC operators with Uninterruptible Power Supply (UPS) backup.



Watson Pharmaceuticals – California

StrongArm™ Gate System



StrongArm gate system with some required and optional accessories.



Military – Antilles



Port – Washington



Aviation – Kansas



StrongArm™

Industrial, government, aviation, military, corporate, commercial

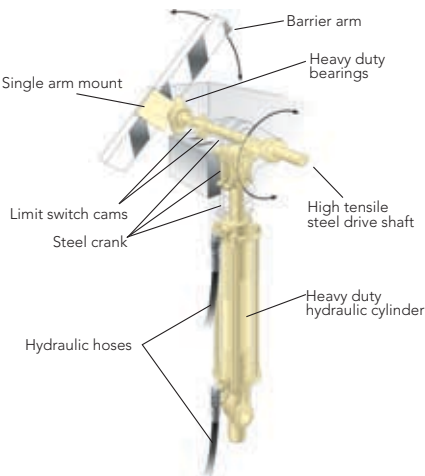
StrongArm™ meets the demanding reliability requirements of corporate, industrial and governmental users and the very long arm needs of specialty applications like airport runways and multiple traffic lanes.

Site: Ultra reliability. High cycle. Heavy arms. Wide openings. Low maintenance.

Typical Sites: Port, railway, drawbridge, petrochemical, corporate campus, airport runway, traffic control, DOT.

Operator: Hydraulic. Smart Touch Controller with diagnostics and integrated security reporting (page 2-3). Industrial grade components. 2 to 8 second open or close. Up to 36' arms. Wood, aluminum, fiberglass side or yoke mount arms. All voltages/phases. 2,000 cycles per day. Out-of-box synchronization with all HySecurity operators for master-slave, sally port or other specialized, multiple operator applications.

Options: HY-5A intelligent vehicle detectors. UPS battery backup. Custom colors. Compatible with all available access control, safety, vehicle detection and many other accessories.



StrongArm™ Power Coupling to Shaft

Special Models

Fast: 2 seconds to open, 3 seconds to close. Up to 14' arm. 2,000 cycles/day maximum. No counterweights.

Multiple Lane: Models that will operate a 28' to 36' barrier arm, opening to full open in 5 to 8 seconds. 2,000 cycles/day maximum. Chosen for multiple traffic lane and airport runway management.

UPS Backup: All StrongArm UPS models provide full functionality during AC power outage using DC power from uninterruptible power supply batteries (UPS). 100-cycle back-up provided by two, 110 Amp hour batteries and a 25 Amp charger (more batteries yield more DC cycles). The ultimate in reliability.

	Fast	Standard	Heavy Duty	
Model	StrongArm 14F	StrongArm 20	StrongArm 28	StrongArm 36
Part#	HTG 320-2	HTG 320-3	HTG 320-6	HTG 320-8
Duty Cycle	2,000 cycles/day	2,000 cycles/day	2,000 cycles/day	2,000 cycles/day
Horsepower	3/4 hp	3/4 hp	3/4 hp	3/4 hp
Arm Speed	2-sec. to open; 3-sec. to close	3-sec. to open; 4-sec. to close	5-sec. to open; 6-sec. to close	8-sec. to open; 8-sec. to close
Arm Length Capacity	Up to 14'	Up to 20' (Side mount available for arms up to 18')	Up to 28'	Up to 36'
Arm Designs	Side mount aluminum or fiberglass. (Wood up to 14')	Side or center yoke aluminum or fiberglass. (Wood up to 14')	Center yoke aluminum or fiberglass.	Center yoke aluminum or fiberglass.
1 Phase Power	115/208/230 60 Hz. 50 Hz. available	115/208/230 60 Hz. 50 Hz. available	115/208/230 60 Hz. 50 Hz. available	115/208/230 60 Hz. 50 Hz. available
3 Phase Power	208/230/460/575 60 Hz. 50 Hz. available	208/230/460/575 60 Hz. 50 Hz. available	208/230/460/575 60 Hz. 50 Hz. available	208/230/460/575 60 Hz. 50 Hz. available
UL Listing	I, II, III, IV	I, II, III, IV	I, II, III, IV	I, II, III, IV

All models available as optional DC operators with Uninterruptible Power Supply (UPS) backup.



United Nations – New York

SwingRiser™

Industrial, government, military, corporate, commercial, residential

SwingRiser opens gates with an elegant lift and swing movement, raising the gate panel a full 12" during the gate opening cycle. Lifting clears obstacles like snow, rocks, curbs, and gradient differences. SwingRiser's locking pin secures the gate as it drops into a roadway locking receptacle when the gate gently lowers at the end of its cycle.

Site: Ultra high security and reliability. High cycle. Large, heavy gates. Utility or elegant. Pipe and steel, aluminum, chain link, ornamental iron, crash gates, more.

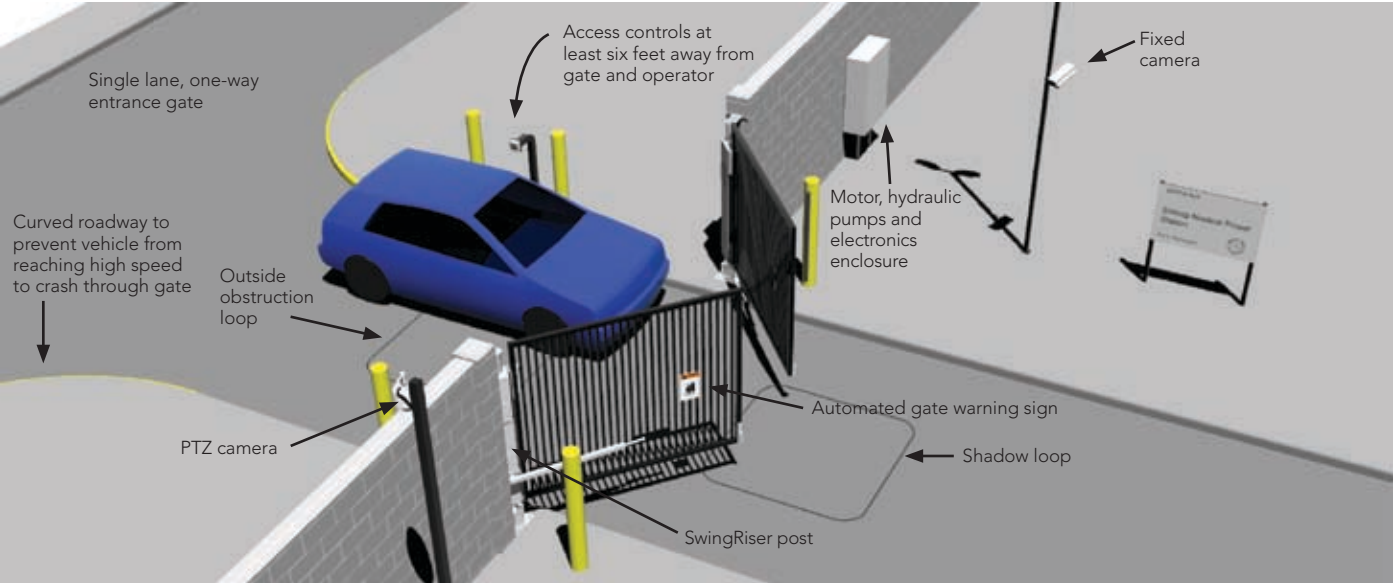
Typical Sites: Port, railway, embassy, gated community, sports/entertainment, VIP estate.

Operator: Hydraulic. Smart Touch Controller with diagnostics and integrated security reporting (page 2-3). 14 to 30 second open. Up to 3,000 lb./gate leaf. 90 or 100 degree, in or out swing. All voltages/phases. Continuous duty. Out-of-box synchronization with all HySecurity operators for master-slave, sally port or other specialized, multiple operator applications.

Options: HY-5A intelligent vehicle detectors. UPS battery backup. Custom post height. Compatible with all available access control, safety, vehicle detection and many other accessories.



SwingRiser™ Gate System



SwingRiser gate system with some required and optional accessories.



Railroad – Washington



Residential – Arizona



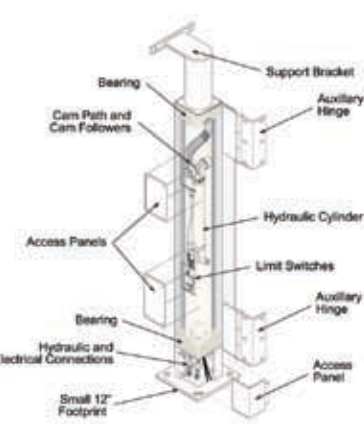
Military Crash Gate –West Virginia

Special Models

Twin: SwingRiser Twin models use one electric motor, one hydrasupply and one remote enclosure to open and close two gates simultaneously, reducing the overall system cost considerably. SwingRiser comes standard with a mechanical lock via hydraulics and a locking pin and receptacle, virtually eliminating the need for optional external locks.

Leaf Delay: Some 2-gate swing operators require independent operation, with one delayed leaf operation to allow for special locking mechanisms or to facilitate an aesthetic one leaf folding over the other close cycle. This requires two separate operators, each with its own electric motor, hydrasupply and remote enclosure. Programming the Smart Touch Controllers defines the length of leaf delay.

UPS Backup: All SwingRiser UPS models provide full functionality during AC power outage using DC power from uninterruptible power supply batteries (UPS). 100-cycle back-up provided by two, 110 Amp hour batteries and a 25 Amp charger. The ultimate in reliable security.



Inside SwingRiser™ Post

	1,000 lb. gate, 14 sec. open		1,600 lb. gate, 19 sec. open		3,000 lb. gate, 30 sec. open	
	Single leaf	Twin	Single Leaf	Twin	Single Leaf	Twin
Model	SwingRiser 14	SwingRiser 14 Twin	SwingRiser 19	SwingRiser 19 Twin	SwingRiser 30	SwingRiser 30 Twin
Part #	HRG 220A	HRG 222A	HRG 220B	HRG 222B	HRG 220C	HRG 222C
Duty Cycle	Continuous	Continuous	Continuous	Continuous	Continuous	Continuous
Horsepower	1 hp	2 hp	1 hp	2 hp	1 hp	2hp
Drive	Hydraulic cylinder	Hydraulic cylinder	Hydraulic cylinder	Hydraulic cylinder	Hydraulic cylinder	Hydraulic cylinder
Gate Size	up to 9' wide	up to 9' wide each leaf	up to 16' wide	up to 16' wide each leaf	up to 16' wide	up to 16' wide each leaf
Gate Weight	1,000 lbs.	1,000 lbs. / leaf	1,600 lbs.	1,600 lbs. / leaf	3,000 lbs.	3,000 lbs. / leaf
Rate of Travel	14 seconds	14 seconds	19 seconds	19 seconds	30 seconds	30 seconds
1 Phase Power	115/208/230 60 Hz. 50 Hz. available	208/230 60 Hz. 50 Hz. available	115/208/230 60 Hz. 50 Hz. available	208/230 60 Hz. 50 Hz. available	115/208/230 60 Hz. 50 Hz. available	208/230 60 Hz. 50 Hz. available
3 Phase Power	208/230/460/575 60 Hz. 50 Hz. available	208/230/460/575 60 Hz. 50 Hz. available	208/230/460/575 60 Hz. 50 Hz. available	208/230/460/575 60 Hz. 50 Hz. available	208/230/460/575 60 Hz. 50 Hz. available	208/230/460/575 60 Hz. 50 Hz. available
UL Listing	I, II, III, IV	I, II, III, IV	I, II, III, IV	I, II, III, IV	I, II, III, IV	I, II, III, IV

All models available as optional DC operators with Uninterruptible Power Supply (UPS) backup.



Metropolitan Transportation Authority – New York

HydraLift™

Industrial, government, aviation, military, corporate, correctional facility

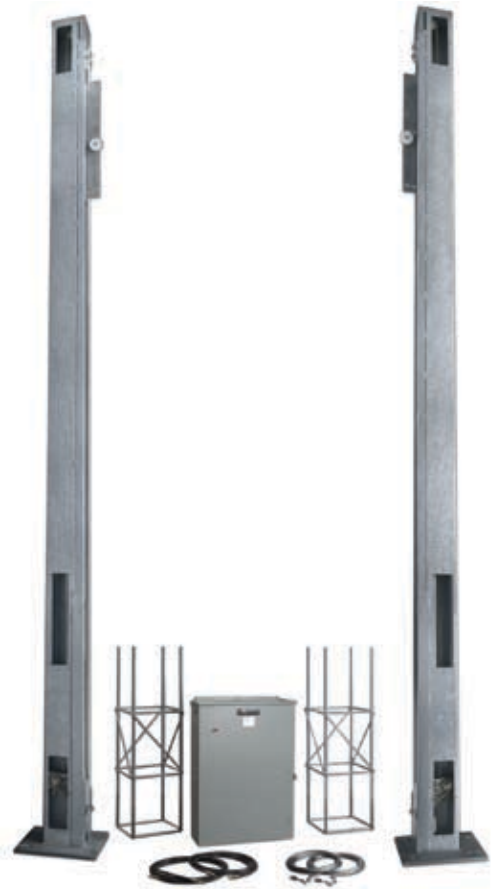
The ultimate in high security and speed. HydraLift™ locks fortress tight without additional hardware. Opens huge gate panels in 8 seconds for quick in and outflows. Hydraulics and controls contained securely in posts and remote panel. Also suited for sites where additional space for swing or slide gates is unavailable.

Site: Ultra high security and reliability. High cycle. Quick open/close. Wide openings. Low maintenance.

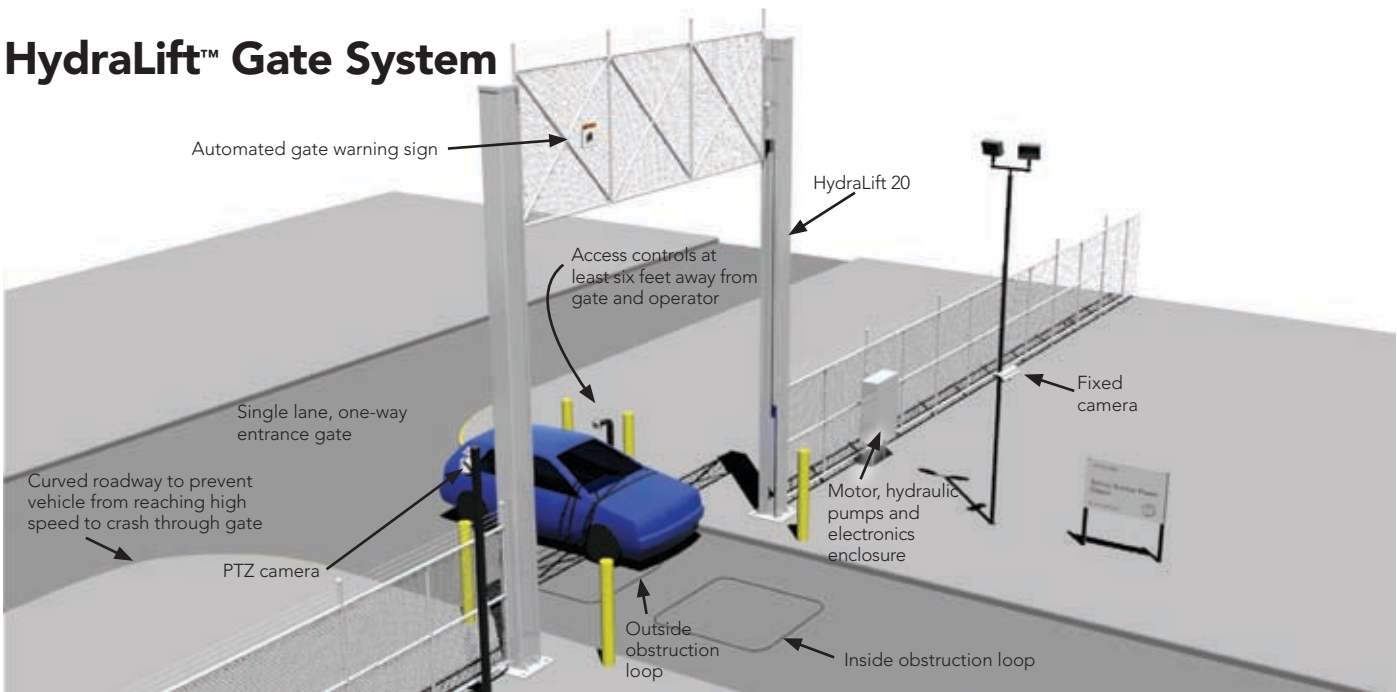
Typical Sites: Prison, airport, freight handling, railway, nuclear, power, petrochemical, military base, water treatment, law enforcement, port, fire department, transportation.

Operator: Hydraulic. Smart Touch Controller with diagnostics and integrated security reporting (page 2-3). Industrial grade components. 1 to 2 ft. per second. Raises to full 16' high opening in as quickly as 8 seconds. Up to 80' wide gate panel. All voltages/phases. 1,000 cycles per day. Out-of-box synchronization with all HySecurity operators for master-slave, sally port or other specialized, multiple operator applications.

Options: HY-5A intelligent vehicle detectors. UPS battery backup. Compatible with all available access control, safety, vehicle detection and many other accessories.



HydraLift™ Gate System



HydraLift gate system with some required and optional accessories.



Petrochemical – Oregon



Government – Arizona



Industrial – California

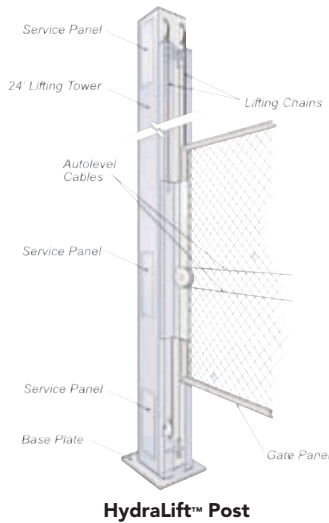


Industrial – Minnesota

Special Models

Fast: Clears multiple traffic lanes in 8 seconds. Lifts up to a 2,000 lb., 80' wide gate panel at 24" per second. 24' posts (standard height) lift 8' tall gate panel to clear a 16' high opening. Post height and panel size are customizable.

UPS Backup: All HydraLift UPS models provide full functionality during AC power outage, using DC power from uninterruptible power supply batteries (UPS). 150-cycle back-up travel provided by two, 110 Amp hour batteries and a 25 Amp charger, providing the ultimate in reliable security.



HydraLift™ Post

	Standard	Heavy Duty	Standard	Heavy Duty
Model	HydraLift 10	HydraLift 20	Hydralift 10F	HydraLift 20F
Part#	HVG 420	HVG 460	HVG 420 EX	HVG 460 EX
Duty Cycle	1,000 cycles/day	1,000 cycles/day	1,000 cycles/day	1,000 cycles/day
Horsepower	2 hp	2 hp	5 hp	5 hp
Gate Weight	1,000 lb. gate max.	2,000 lb. gate max.	1,000 lb. gate max.	2,000 lb. gate max.
Gate Length	50 ft. max.	80 ft. max.	50 ft. max.	80 ft. max.
Rate of Travel	12" per sec.	12" per sec.	24" per sec.	24" per sec.
1 Phase Power	208/230 60 Hz. 50 Hz. available	208/230 60 Hz. 50 Hz. available	230 60 Hz. only	230 60 Hz. only
3 Phase Power	208/230/460/575 60 Hz. 50 Hz. available	208/230/460/575 60 Hz. 50 Hz. available	208/230/460 60 Hz. 50 Hz. available	208/230/460 60 Hz. 50 Hz. available
UL Listing	I, II, III, IV	I, II, III, IV	III, IV	III, IV

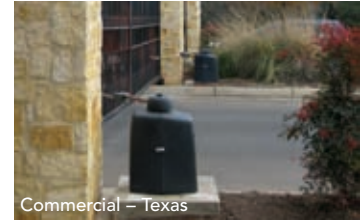
All models available as optional DC operators with Uninterruptible Power Supply (UPS) backup.



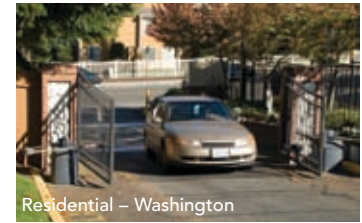
Private Residence – Arizona



Industrial – Missouri



Commercial – Texas



Residential – Washington

SwingSmart DC™



Ultra reliable, UPS backup, pad mounted swing gate operator for residential or commercial use.

HIGH SECURITY Most of SwingSmart DC's moving parts are protected from vandalism and tampering by a heavy duty, key-locked cover. SwingSmart DC's robust, low flex chassis meets the most demanding site, climate and usage demands.

UPS BACKUP SwingSmart DC continues to operate for days after AC power loss.*

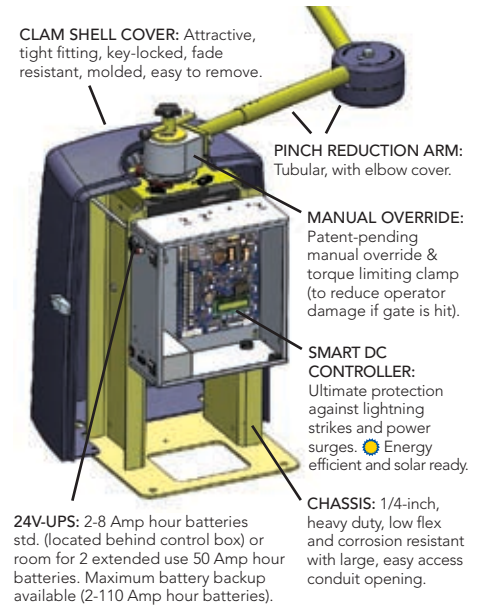
PINCH PROTECTION DESIGN SwingSmart DC employs a pinch protection arm design reducing the possibility of accidental injury that can be a hazard with a typical scissor-arm. The operator meets or exceeds all U.S. standards. Listed to UL 325 classes I, II, III and IV.

VEHICLE HIT PROTECTION Swing gates are most prone to vehicle hits, often resulting in expensive gate operator labor and equipment repair. SwingSmart DC reduces the likelihood of operator damage with its unique swing arm coupling (patent pending).

INTELLIGENCE and FULL SECURITY INTEGRATION SwingSmart DC features the Smart DC Controller, HySecurity's next generation intelligent controller, offering easy dual gate synchronization, alert, fault and error reporting, maximized battery life, and a 32 character LCD display.

SELF-SYNCHRONIZING GATES SwingSmart DC technology automatically synchronizes bi-parting gates in the first five cycles of operation. Synchronization is ceaselessly maintained regardless of site condition or gate hardware changes over the life of the operators. Finally – a perpetually flawless, harmonized pair of swing gates.

*Actual number of battery powered cycles is dependent on powered accessories, gate length/weight, duty cycle, climate and other site/system conditions.



Standard Model	SwingSmart DC 20
☀️ Solar Model	SwingSmart DCS 20
Max Gate Length	Up to 20' leaf / 6.1 meters
Max Gate Weight	1,300 lb. / 590 kg
Rate of Travel	10 to 15 seconds. Variable speed, open/close set separately
Duty Cycle	Continuous
Temp. Rating	-13F to 158F (-25C to 70C)
Certification	500,000 cycles
Accessory Power	12 to 24 volts DC + 24 volts AC
Communication	USB, RS 232, RS 485, Ethernet opt.
Power: single phase	115 volts, 50/60 Hz. std; 220 volts, 50/60 Hz. option
UL Listing	I, II, III, IV
Warranty	5/7 years* or 500,000 cycles (*commercial/single family residential)



Simple. Reliable. Secure.®

phone **1-800-321-9947**
fax **1-888-321-9946**

www.hysecurity.com • info@hysecurity.com

Member of DASMA (Door and Access Manufacturers Association), ASIS International, AFA (American Fence Association), SIA (Securities Industry Association)