

# Anti-Ram

# HydraWedge™ SM50



Anti-Ram Barrier Arm Operator

## 3 Crash Certifications

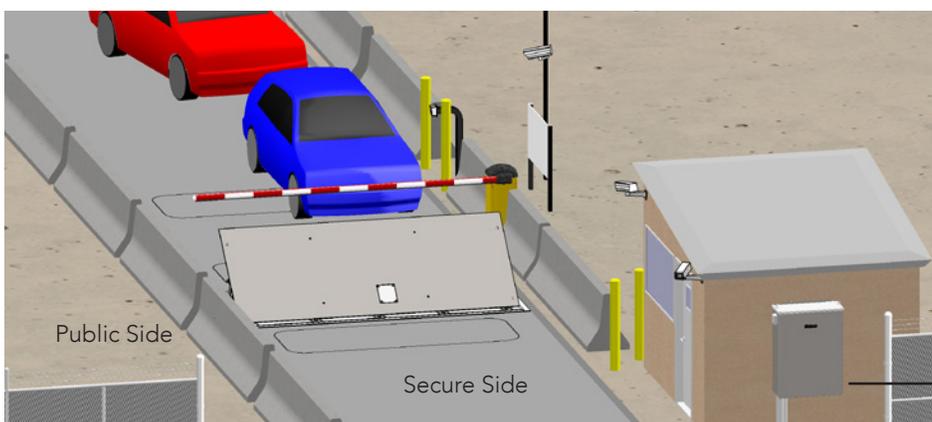
**ASTM F2656-15 M50-P1 • IWA14-1: 2013 • PAS 68: 2013**

(with NO vehicle penetration)

- HySecurity operators thrive for decades with minimal maintenance. We've manufactured hydraulic industrial and crash gate operators since 1980.
- Hundreds of cycles after AC power loss with UPS battery backed-up HydraWedge SM50 UPS.
- High cycle - fast throughput manages traffic AND maintains high security.
- 3-sec open or close; 1 sec EFO
- Fast, two day installation. Small footprint, small concrete foundation, 12 inch shallow mount and minimal rebar
- Field programmable to specific site requirements
- Easy system troubleshooting with online events log
- Real time system security alerts with optional HyNet™ Gateway
- 5 year warranty on hydraulics and controls



### HydraWedge SM50 Gate System



↑ **HydraSupply XL™**  
(Pictured: Two controllers for twin model)

# 4 HydraWedge™ SM50 Models



Model	HydraWedge™ SM50	HydraWedge™ SM50 UPS	HydraWedge™ SM50 Twin	HydraWedge™ SM50 Twin UPS
<b>Crash Certified</b>	Domestic ASTM F2656 M50-P1 and international IWA 14-1 V/7200[N3C]/80/90:0.0 and PAS68 V/7500[N3]/80/90:0.0/20.7 with no penetration ††			
<b>Duty Cycle</b>	300 cycles/hr		400 cycles/hr divided between 2 wedges	
<b>Horsepower</b>	2 hp	2 hp	5 hp	4 hp
<b>Drive</b>	Hydraulic			
<b>Open/Close Time</b>	3 seconds			
<b>Emergency Fast Operate</b>	1 second			
<b>Manual Operation</b>	Hand pump (standard)			
<b>Wedge Design</b>	<b>Plate width:</b> 2,2.5, 3, 3.5, 4 m* (6.5, 8, 10, 11.5, 13 ft) <b>Plate height (raised):</b> 1000 mm (3.3 ft) <b>Excavation width:</b> Plate width + 700 mm (27.5 inch) <b>Excavation length:</b> 3.7 m (12 ft) <b>Excavation depth:**</b> 300 mm (1 ft)			
<b>Wheel Load</b>	44,000 lb axle load rating; 22,000 lb wheel load (19,958 Kg. / 9,979 Kg)			
<b>Uninterruptible Power Supply</b>	Standard model generates multiple cycles from fully charged accumulator	Hundreds of cycles after AC power loss with DC Power Supply w/ HyCharger DC™ ***	Standard model generates multiple cycles from fully charged accumulator	Hundreds of cycles after AC power loss with DC Power Supply w/HyCharger DC™ ***
<b>Accumulator Backup Cycles: Either normal or EFO</b>	6 cycles 2.5 gallon accumulator	4 accumulator cycles in addition to hundreds of UPS cycles. 2.5 gallon accumulator	6 cycles divided between two wedges. 2.5 gallon accumulator	4 additional accumulator cycles divided between two wedges in addition to hundreds of UPS cycles. 2.5 gallon accumulator
<b>1 Phase Power</b>	208/230V 60Hz 220V 50Hz	115V 60/50Hz 23A † or 208-230V 60/50Hz 11.5A Choose voltage with care as chargers are not field convertible	230V 60Hz 220V 50Hz	115V 60/50Hz 23A † or 208-230V 60/50Hz 11.5A Choose voltage with care as chargers are not field convertible
<b>3 Phase Power</b>	208/230/460V; 220/380/440V 50Hz	n/a	208/230/460V; 220/380/440V 50Hz	n/a
<b>Batteries</b>	Two 8Ah batteries maintain low voltage to the controls for 24 hours after AC power loss	Two 110 Ah batteries located in separate DC UPS enclosure	Two 8Ah batteries maintain low voltage to the controls for 24 hours after AC power loss	Two 110 Ah batteries located in separate DC UPS enclosure
<b>Temperature Rating</b>	-40° to 158° F (-40° to 70° C) or -10° to 158° F (-23° to 70° C) HySecurity specified biodegradable fluid			
<b>Communication</b>	RS-232, RS-485, Ethernet/fiber using optional HyNet™ Gateway accessory			
<b>User Controls</b>	Smart Touch Controller with 70+ configurable options. Smart Touch keypad and display or a PC using S.T.A.R.T. software.			
<b>Relays</b>	Three configurable user relays: one 30VDC, 3A solid state and two 250VAC, 10A electromechanical; Optional Hy8Relay™ for 8 additional relay outputs			
<b>Enclosure</b>	HydraSupply XL: Type 3R, 91w x 122h x 41d cm (36w x 48h x 16d inch), optional NEMA 4X	HydraSupply XL: Type 3R, 91w x 122h x 41d cm (36w x 48h x 16d inch), optional NEMA 4X DC Power Supply: Type 3R, 76w x 76h x 30d cm (30w x 30h x 12d inch)	HydraSupply XL: Type 3R, 91w x 122h x 41d cm (36w x 48h x 16d inch), optional NEMA 4X	HydraSupply XL: Type 3R, 91w x 122h x 41d cm (36w x 48h x 16d inch), optional NEMA 4X DC Power Supply: Type 3R, 76w x 76h x 30d cm (30w x 30h x 12d inch)
<b>Finish</b>	Powder coated, 2,000 hr salt spray tested			
<b>Foundation</b>	300 mm** (1 ft) concrete depth all widths up to 4.15 m (13.5 ft); less than 218 kg (480 lb) rebar; less than 3.1 m3 (4 cu yds) concrete (per wedge)			
<b>Electrical Certification</b>	Control panel certified to UL 508A by ETL			
<b>Warranty</b>	5 year warranty on electronics and hydraulics. 2 year warranty on mechanical wedge.			

\* Wedge manufactured in metric scale. Use for precision measurements. All imperial measurements rounded to nearest ½ ft

\*\* 300 mm excavation: 200 mm reinforcing concrete + 100 mm roadway surface of any material

\*\*\* The operator's normal duty cycle and the actual number of combined cycles available from batteries depends upon wedge plate weight, number of batteries, state of charge and health, ambient temperature, accessory power draw and length of power outage

† 115V input requires 30A branch circuit

†† Contact HySecurity to receive a copy of the ASTM F2656-15 M50-P1 Test Certification

**OPTIONAL ACCESSORIES:** Wedge fitted with safety skirt, Hy5B™ intelligent vehicle detectors, Hy8Relay™ - accessory module provides eight additional programmable relay outputs, HyNet™ Gateway for communicating gate system and accessory status in real time via Ethernet/fiber, Heater, custom color, red LED light strip

**SYSTEM DESIGN SUPPORT:** Contact HySecurity for CAD drawings, tech manuals, help with custom site requirements or other specifications support. Download operator specifications online at [www.hysecurity.com](http://www.hysecurity.com) or call to speak with a HySecurity representative today.

**VISIT [WWW.HYSECURITY.COM](http://WWW.HYSECURITY.COM)** for specifications, installation manuals, wiring diagrams, parts diagrams, image gallery, videos, training and much more.

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