

# Industrial Swing Gate Operator

# USP™

UNITED STEEL PRODUCTS

**SW 490**

**powerful performance for high cycle, heavy industrial swing gate applications**

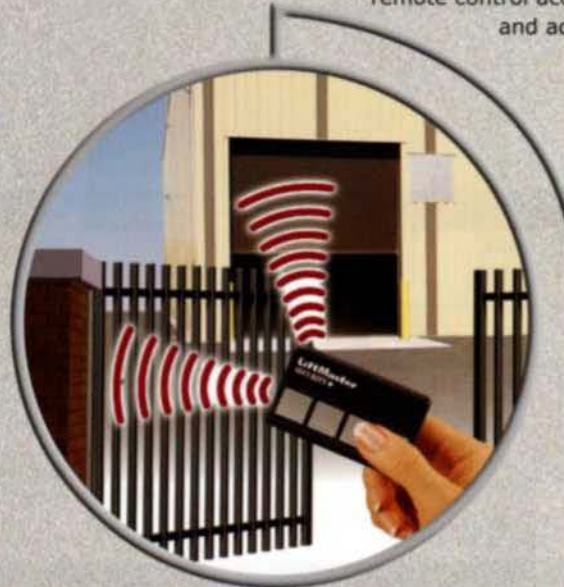
This hefty design supports gate lengths up to 22 feet and gate weights up to 1,000 pounds. Utilizing a weather-resistant powdercoated steel enclosure, a wormgear reduction drive and high-starting torque motor offers you years of reliable and powerful performance. This model is ideal for demanding industrial applications and is fully UL325-compliant.

**built-in 312HM radio receiver**

Exclusive from Chamberlain, a single remote control access solution for gates and additional access points.

the LiftMaster® gate logic (GL) board provides many enhanced and exclusive features as STANDARD

- Fully Adjustable Inherent Obstruction Detection System
- Advanced Dual Gate Operation
- "Sequenced Access Management" (SAM) System
- Shadow Loop Input
- Industrial Surge and Spike Protection
- Digital Logic Control Allowing for Long Control Lines of Over 1,000 Feet
- Separate Open and Close External Sensor Inputs
- 17 LEDs to Ease Installation and Speed Diagnostics



LISTED  
c UL US

**CHAMBERLAIN**

# LiftMaster®

**PROFESSIONAL**

# standard features

## built-in radio receiver

Includes a factory-installed 312HM radio receiver for use with DIP switch, billion code and Security+® remote controls. This allows for one LiftMaster® remote control to conveniently open the gate and additional access points. Remote controls sold separately.

## external obstruction sensing

Input connections are provided for external contact and non-contact sensors, such as photo-eyes and edge devices.

## advanced dual gate operation

This convenient 2-wire system allows the operation of 2 separate gate operators in unison at a single entrance. This advanced system provides the added convenience of connecting accessories to either operator.

## sequenced access management

The sequenced access management (SAM) system provides the capability to sequentially control the operator in tandem with a barrier gate.

## digital logic control

Supports long-distance control wiring runs of over 1,000 feet, providing you greater flexibility of gate operator site placement.

## LED indicators

Operator input, status and diagnostic LEDs simplify setup and troubleshooting.

## warning device

UL325-compliant entrapment warning alarm has the ability to be set for pre-operation warning. This will provide a 3-second warning prior to and during gate movement.

## loop detector inputs

A full range of inputs are available to support exit, shadow and interrupt loop detectors.

## timer to close

Adjustable timer can be set from 1 to 180 seconds. The unit will automatically reset upon receiving any additional open commands.

## maximum run timer

Protects against damage to the gate and operator by limiting the unit's run time to 120 seconds.

## emergency stop button

This one-button station will halt movement of the operator in an emergency situation and comes standard in an outdoor weather-tight enclosure.

## maglock control

A dedicated control relay is provided to activate and deactivate an optional magnetic lock for securing the gate.

## gear drive reduction

The wormgear 30-to-1 reduction unit is saturated in an oil bath for strong fluid motion of the operator.

## control inputs

Control inputs allow the connection of a full range of optional external devices like loop detectors, telephone entry systems, access control systems and radio receivers.

## limit settings

All driven limit cams are fully adjustable, adding considerable convenience to unit installation and maintenance.

## surge & spike protection

Specially designed circuitry provides excellent protection from external spikes or surges.

## manual disconnect

Ensures that manual operation is possible during emergencies and maintenance work.

## removable access control panel

A removable access door is incorporated into the design to provide easy access to the electronics when programming and for maintenance.

## SPECIFICATIONS

### OPERATOR SPEED

90-degree swing in  
12 seconds

### POWER

115/208/230 VAC,  
Single Phase - 60Hz  
208/230/460/575,  
Three Phase - 60Hz

### OPERATOR WEIGHT

200 lbs.

### ACCESSORY POWER

One - 24 VAC

### UL LISTED

UL991  
UL325 - Class I, II, III and IV



### CONSTRUCTION

Gear Reduction: 30:1  
Wormgear in Oil

Motor: 1/2 to 1 HP  
High-Starting  
Torque Motor

Metal Frame:  
Pre-Galvanized Steel

Enclosure: Weather-  
Resistant 14-Gauge  
Pre-Galvanized Steel

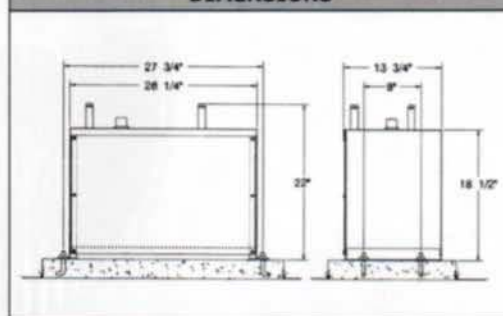
### OPTIONAL EQUIPMENT

Auxiliary Limit Switches  
Auxiliary Contact Blocks  
Self-Regulating Heaters  
Quick-Release Manual  
Disconnect System  
Remote Antenna  
Mounting Kit

## RECOMMENDED CAPACITIES

HP	MAX. GATE WT. (lbs.)	MAX. GATE WIDTH (ft.)	CYCLES /HR.
1/3	600	12	20
1/2	750	16	20
3/4	900	19	20
1	1000	22	20

## DIMENSIONS



CHAMBERLAIN®

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PROFESSIONAL

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# USP™

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