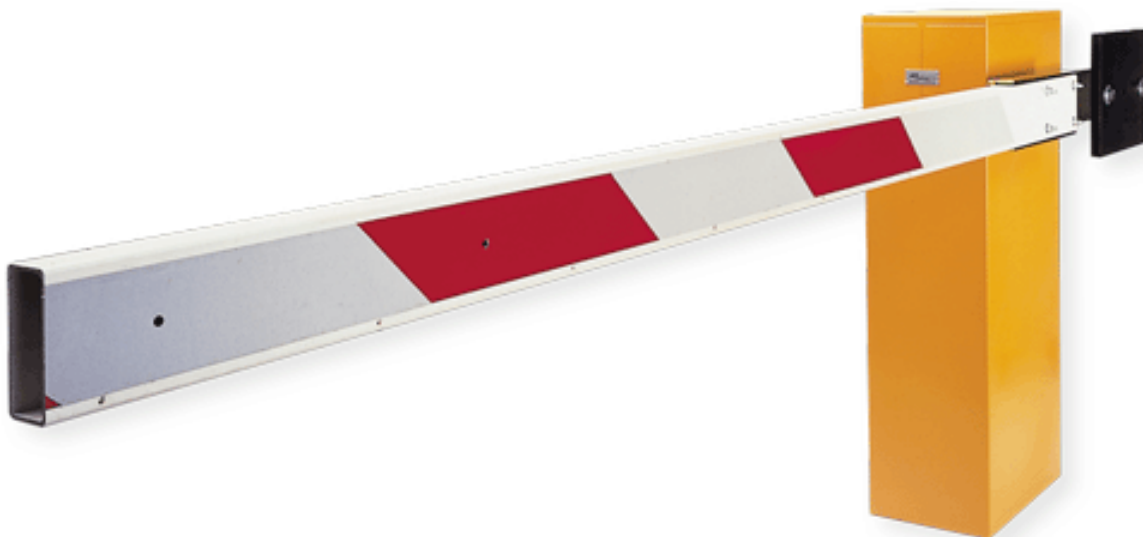


POWER GATE PG-541

Product Specification



Heavy duty industrial barrier gate for low volume applications where a very wide roadway needs to be covered or for areas trafficked primarily by commercial vehicles. The standard Power Gate can be equipped with an aluminum arm up to 20' in length. A unique, top drive design drives the arm. The arm is connected directly to the gear-motor eliminating the need for chains or belts. The arm itself rests on stops, thereby removing the gear-motor from external forces. All control circuitry is contained in a sealed plug-in controller. All controllers are identical, simplifying maintenance and reducing the need to stock parts. The Power Gate can operate in conjunction with any loop detectors, radio controls, manual controls, etc. Warning lights can optionally be mounted to the gate arm and a hand crank for manually raising the gate arm is available.



A. HOUSING

The housing shall be weather proof and constructed of heavy gauge steel not less than #14. All seams, joints and supports shall be electric bead welded. Spot welds are not acceptable for housing construction.

Access to the motor compartment shall be provided by a removable top cover secured by latches located inside the housing. Access to the interior of the housing shall be provided by a key locked door. The door and top shall be designed to retard unauthorized

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entry, tampering and vandalism. An opening of 6" X 12" shall be provided at the bottom of the housing for conduits and field wiring.

The finish shall consist of a powder coat finish applied over a suitable primer.

B. CONTROL CIRCUITRY

All control circuitry, logic, motor starting circuitry, etc., shall be contained in one easily removable sealed housing hereinafter referred to as the gate controller. All connections to the controller shall be made through easily accessible screw terminals.

One standard controller shall be capable of providing all system logic as well as manual functions.

Operational mode changes shall be accomplished by jumpers on a termination panel. No circuitry changes, modifications, additions or deletions shall be required to accomplish these mode changes.

The gate controller shall contain a magnetic type circuit breaker for overload protection. Thermal type overload circuit breakers will not be acceptable as these devices change in characteristic according to changes in ambient temperature. A switch shall be provided for manual up/down control.

C. GATE ARM DRIVE ASSEMBLY

The gate arm drive assembly shall be directly linked to the gear motor assembly by a heavy duty connecting rod. The gate arm shaft shall be moved in harmonic motion. The gate arm travel shall not exceed 5 seconds for raising or lowering. Override stops shall be provided to positively limit the gate arm travel in either the vertical or horizontal position.

The gate arm stopping positions shall be independently adjustable via micro-switches. The micro switch assembly shall be located on the larger sprocket drive shaft and provisions must be made for easy field adjustment.

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D. GATE ARM

The gate arm assembly shall consist of a hollow aluminum assembly up to 20 feet in length. The gate arm shall be counter balanced by weights which can be added to the opposite side of the gate arm bracket assembly. (Break away features or rebound options are not available for the model 1-541 gate.)

E. OPTIONS

It shall be possible to install warning lights of no less than 4 inches in diameter of red color on the gate arm which can be turned on by the gate circuitry when the gate arm is in the down position. A heater for installations in cold climates shall be available.

E. TECHNICAL DATA

Housing	weather proof #14 Ga steel construction flush, tamper proof full length door removable hood for easy access off the ground rust resistant feet powder coat finish
Motor drive	1/3 HP heavy duty motor direct drive
Gate arm	aluminum, up to 20'
Control circuitry	self-contained, sealed, plug-in controller
Power	110VAC, 60Hz, 10Amps (220VAC, 50Hz, 6Amps optional)
Environmental	Operating temperature: 0 deg. F to 110 deg. F (-20 deg. C to 45 deg. C)
Mechanical	46" H X 18 1/4" W X 12 1/4" D (1170mm X 460mm X 310mm)
Weight	300 lbs. (156 Kg)

Power Gate Housing Dimensions:

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