



## 2B Sliding Door Operating Device

### Product Model Information

Key	Roller Chain
Door	Remote Electric and Mechanical, Local Mechanical
Security	Maximum

### Description

Type 2B Locking Devices are high security, motorized sliding cell door operating and locking systems for use with any doors not exceeding 300 pounds.

### Applications

2B devices are applicable to any multiple cell or inmate room door situation. Optional controls provide selective operation of single or groups of doors simultaneously.

### Functions

Unit unlocks, opens and deadlocks open, or closes and deadlocks closed pre-selected individual doors or door groups, via optional electric controls. Gang release is by mechanical release cabinet. Door movement may be stopped in mid-travel. The door is not free-wheeling in the electric mode. Pressure exerted by a door in travel is factory set at approximately 40 pounds. Force is adjustable between 20 and 50 pounds.

Direction of travel of any individual or selected group of doors may be reversed without interrupting the operation of other doors. When a single door is blocked, there is no interruption in the operation of any other door in the group. On removal of the blockage, the door will automatically continue movement to the open or closed position.

In the event of emergency or power failure, any door may be unlocked manually at the door, and moved by hand without changing the locked status of any other doors.

In the event of power failure, doors may be manually opened or closed by sliding the door.

### **Locking System**

Upon closure, each door automatically deadlocks at two concealed points at the rear edge of the door. Upon opening, each door automatically deadlocks open at the front edge of the door. Locking components are not exposed at the front edge of the door and, therefore, not subject to tampering. Components do not project into the door opening.

### **Testing**

Type 2B Device has been thoroughly function tested, and in service since 1962. Folger Adam Security Inc. has established test criteria for this system at 500,000 cycles.

### **Standard Features**

- **Motor voltage** - 120VAC
- **Plug-type connectors** - Simplify wire harness installation.
- **Rugged chain drive** - Provides sure action of the door under a variety of conditions and installation variables.
- **Heavy duty construction** - 2B devices are built for the rigors of maximum security applications.
- **Tamper-resistance** - Openings in housings are baffled to resist inmate tampering.
- **Selective operation** - Single or groups of doors may be simultaneously opened or closed and deadlocked.
- **Adjustable torque limiter** - Simple adjustment of force exerted by the door. May be set between 20 and 50 pounds.
- **Sloped-top housing** - Resists hiding of contraband.
- **Flat-top housing** - Provided where device must install close to ceiling.
- **Cover lock** - Device mechanisms are concealed by an outer cover and unlocked from the release cabinet.
- **Automatic deadlocking** - When fully closed or open, top and bottom locking points on the rear of each door automatically deadlock.
- **Indication switch** - Monitors the deadlocked condition of both locking points.
- **Gang release** - From mechanical release cabinet.
- **Self-contained** - A continuous, surface-mounted housing contains the drive and mechanical release mechanisms and wiring.
- **Full length wire tray** - Simplifies routing of electrical wire harnesses. Runs the full length of the housing.
- Meets NFPA 101 Life Safety Code.

### **Optional Features**

- **Key Switches** - May be added in columns or nearby for local electric control.
- **Mechanical release cabinet** - A two-position lever handle or crank handle is provided:  
Lever provides:
  1. **Electric operation** - Door control from a remote location.
  2. **Emergency unlock** - Gang release of all doors in event of emergency or power failure.
- **Electrical/Mechanical control cabinet** - Electrical switches may be ordered to provide control of each door in addition to mechanical function. These switches may be built into the same cabinet as the mechanical levers, or located remotely as needs dictate. The following switch functions are available:  
  
Three position operating switches (Open-Group-Close)
  - **Group Switch** - Provides group control (Open-Off-Close)
  - **Power Cut-Off Switch** - Cuts off electrical current to controls.
  - **Indication Lamps** - Red and green indicator lamps may be installed with switches to show deadlocked, closed or open status of each door.
- **Special Indication lamps** - An additional (amber) lamp is available. When used, indication is as follows:
  - **RED** - Locked open.
  - **GREEN** - Deadlocked closed.
  - **AMBER** - Moving, or stopped in mid-travel.
- **Custom graphic controls** - In many cases, it may be desirable to separate electric controls from the mechanical release cabinet located near the cells. For larger installations, or those with particular needs, custom-built control consoles may be easily provided with floor plan graphics screened on the control panel, and an array of specialized features.
- **Wire harness** - For applications using a series of locking devices, a wire harness(es) may be specified to interconnect terminal strips in the mechanical control/release cabinet to a plug connector at the door operating unit. Simplifies routing of wire, and saves installation cost and time.

## Specifications

### Drive System

- Rate of travel: Opens or closes a 30" door in approximately 6 seconds
- Motor: 120VAC, 60Hz, 1/20 HP

- Roller Chain: #41 size
- Hanger and Guides: 1/2" thick steel
- Rollers: Cold formed steel.
- Rollers are mounted on hardened ball bearings protected by internal grease shields.
- Finish: USP primed

### **Mechanical Release Cabinet**

- Cabinet Enclosure: 7 gauge steel.
- Operating Lever: 3/8" steel.
- Cabinet Door: 7 gauge steel, equipped with #3 hinges, #2 pull, and two point locking controlled by a #82 Deadlock.
- Internal Legend Panels: 10 gauge steel, gray hammertone finish.
- Finish: USP primed, except legend panels and finish-painted surfaces.

### **Mechanism Housing / Covers**

- Housing: 7 Gauge steel
- Housing Covers: 10 gauge steel, hinged to housing.
- Vertical Lock Column Housing: 7 gauge steel.
- Wire Tray: 16 gauge steel tray.
- Front Receiver Column (optional): 10 gauge.
- Finish: USP primed.

### **Specifications**

Specifications are under review.

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## 3B.2 Sliding Door Locking Device

### Product Model Information

Key	Rack and Pinion
Door	Individual and/or Gang
Security	Maximum

### Description

Type 3B.2 Locking Devices are high security, motorized sliding cell door operating and locking systems for use with doors not exceeding 300 pounds.

### Applications

3B.2 devices are applicable to any multiple cell or inmate room door situation. Optional controls provide selective operation of single or groups of doors simultaneously.

### Functions

- Unit unlocks, opens or closes and locks closed pre-selected individual doors or door groups, via optional electric controls. Gang release is via mechanical release cabinet.
- Door movement may be stopped in mid-travel leaving the door in a fixed (non-movable) position. The door must be moved (restarted) electrically or mechanically to the open or closed position to lock.
- Direction of movement of any individual door may be reversed without interrupting the movement of other door in the group.
- When a single door is blocked, there is no interruption in the operation of any other door in the group. On removal of the blockage, the door will automatically continue movement to the open or closed position.
- In event of emergency, all doors may be unlocked from the mechanical release cabinet. In mechanical mode, the motor is disengaged from the rack, and doors may be unlocked or re-locked using a special tool.
- In the event of power failure, all doors remain in a fixed position, and must be operated mechanically. Doors are free-wheeling when released.

## Locking System

Upon closure, each door automatically locks at two concealed points at the rear edge of the door. Locking components are not exposed at the front edge of the door and, therefore, not subject to tampering. Components do not project into the door opening.

## Testing

Type 3B.2 Device has been thoroughly function tested, and have been in service since 1994. The Southern Folger Detention Equipment Company has established test criteria for this system at 200,000 cycles.

## Standard Features

- **Motor voltage** - 120VAC
- **Plug-type connectors** - Simplify wire harness installation.
- Rack and pinion gear drive.
- **Heavy duty construction** - 3B.2 devices are built for the rigors of maximum security applications.
- **Tamper-resistance** - Openings in housings are baffled to resist inmate tampering.
- **Selective operation** - Single or groups of doors may be simultaneously opened or closed and deadlocked.
- **Sloped-top housing** - Resists hiding of contraband.
- **Flat-top housing** - Provided where device must install close to ceiling.
- **Cover lock** - Device mechanisms are concealed by an outer cover and unlocked from the release cabinet.
- **Automatic locking** - When fully closed or open, top and bottom locking points on the rear of each door automatically deadlock.
- **Indication switch** - Monitors the deadlocked condition of both locking points.
- **Gang release** - From mechanical release cabinet.
- **Self-contained** - A continuous, surface-mounted housing contains the drive and mechanical release mechanisms and wiring.
- **Full length wire tray** - Simplifies routing of electrical wire harnesses. Runs the full length of the housing.
- Meets NFPA 101 Life Safety Code.

## Optional Features

- **Key Switches** - May be added in columns or nearby for local electric control.
- **Mechanical release cabinet** - A two-position lever handle or crank handle is provided:

Lever provides:

1. **Electric operation** - Door control from a remote location.
  2. **Emergency unlock** - Gang release of all doors in event of emergency or power failure.
- **Electrical/Mechanical control cabinet** - Electrical switches may be ordered to provide control of each door in addition to mechanical function. These switches may be built into the same cabinet as the mechanical levers, or located remotely as needs dictate. The following switch functions are available:

Three position operating switches (Open-Group-Close)

- **Group Switch** - Provides group control (Open-Off-Close)
  - **Power Cut-Off Switch** - Cuts off electrical current to controls.
  - **Indication Lamps** - Red and green indicator lamps may be installed with switches to show deadlocked, closed or open status of each door.
- **Special Indication lamps** - An additional (amber) lamp is available. When used, indication is as follows:
    - **RED** - Locked open.
    - **GREEN** - Deadlocked closed.
    - **AMBER** - Moving, or stopped in mid-travel.
  - **Custom graphic controls** - In many cases, it may be desirable to separate electric controls from the mechanical release cabinet located near the cells. For larger installations, or those with particular needs, custom-built control consoles may be easily provided with floor plan graphics screened on the control panel, and an array of specialized features.
  - **Wire harness** - For applications using a series of locking devices, a wire harness(es) may be specified to interconnect terminal strips in the mechanical control/release cabinet to a plug connector at the door operating unit. Simplifies routing of wire, and saves installation cost and time.

## Specifications

### Drive System

- Drive System
- Rate of travel: Opens or closes a 24" door in approximately 5 seconds
- Motor: 120VAC, 60Hz, 1/20 HP
- Hanger and Guides: 3/16" thick steel
- Rollers: Cold formed steel.
- Rollers are mounted on hardened ball bearings protected by internal

grease shields.

- Finish: USP primed

### **Mechanical Release Cabinet**

- 7 gauge steel.
- Operating Lever: 3/8" steel.
- Cabinet Door: 7 gauge steel, equipped with #3 hinges, #2 pull, and two point locking controlled by a #82 Deadlock.
- Internal Legend
- Panels: 10 gauge steel, gray hammertone finish.
- Finish: USP primed, except legend panels and finish-painted surfaces.

### **Mechanism Housing / Covers**

- Housing: 7 Gauge steel
- Housing Covers: 10 gauge steel, hinged to housing.
- Vertical Lock Column Housing: 7 gauge steel.
- Wire Tray: 16 gauge steel tray.
- Front Receiver Column (optional): 10 gauge.
- Finish: USP primed.

### **Specifications**

#### 3B.2 Locking Device

High security Motorized sliding cell door device. Remote electrical locking. Unlocking and operation of individual cell doors. Rack and pinion drive. Remotely controlled mechanical gang release.

#### A. Locking Device Function

1. Unlock, open and lock open a 24" door in not more than five seconds.
2. Unlock, close and deadlock closed a 24" door in not more than five seconds.
3. Stop the movement of any door in mid-travel without interrupting operation of other doors, leaving the door fixed at that point, so the door cannot be moved by hand in either direction.
4. Simultaneously unlock, open and lock open, or close and deadlock closed any pre-selected group of doors in the block.
5. Instantly reverse the direction of movement of any individual or selected group of doors without disrupting the movement of the remaining doors in the group.
6. Blocking of one door shall not interfere with the operation of any



other door in the group. When blocking object is removed, the door will automatically continue movement to the open or closed position.

7. Each door shall automatically deadlock closed at two concealed points at the rear of the door. Front locking will not be acceptable.
8. In the event of a power failure, all doors may be unlocked manually at the door without interfering with the locked condition of the doors.
9. Door weight not to exceed 300LBS

#### B. Locking Device Components

1. All motors shall be 1/20 Horsepower, single phase, 0.62 F.L.A., 115V, 60 Hertz as produced by a nationally recognized manufacturer.
2. Gear reducers for rack and pinion drives shall be by recognized national manufacturer.
3. Hanger guides to be 3/16" thick steel plate.
4. Hanger to interlock with track support with a clearance of not more than 0".
5. Hanger support rollers to be trimmed from solid steel, 3 7/8" OD grooved 7/32" deep to engage 7 gauge roll formed track.
6. Rollers to have anti-friction ball bearings with hardened members and grease shields on both sides.
7. Roller studs to be high alloy treated steel with eccentric bushing for adjustment and an automatic type self-locking nut.
8. Paint entire assembly, except track, rollers, and drive mechanism with rust inhibiting primer.
9. Wire tray is full length of the transom, formed from 16 gauge steel to accommodate the optional wire harness.

#### C. Mechanism Housing

1. The horizontal mechanism transom plate shall be constructed of 7 gauge mild sheet steel.
2. Transom covers shall be constructed of 10 gauge sheet steel. All openings on transom plate and covers are to be baffled.
3. All removable transom covers will be locked and screwed to the transom and disengaged only from the mechanical control cabinet.
4. The vertical lock post front and back plates shall be constructed of 7 gauge sheet steel and welded together, enclosing non-removable 0" steel drop bar.

#### **Control Cabinets:**

#### D. Mechanical Cabinets (Standard)

1. Control cabinets shall be constructed of 7 gauge sheet steel, painted with one coat of rust inhibiting primer, except plated or finish painted panels.
2. Operating lever shall be chrome plated steel, 3/8" minimum thickness.
3. Cabinet doors to be equipped with two Folger Adam #3FS Hinges, one #2 pull, and one #82 Lock.
4. The two internal panels are constructed of 10 gauge sheet steel with a hammertone gray finish. One contains the above operating levers. The other can be used to locate optional electrical controls.
5. Wire tray of 16 gauge steel is provided from top to the lower half of the cabinet.
6. Terminal strips are provided in the mechanical control cabinet as required to match the quantity of devices served by the cabinet, on a per job basis.

E. Electric Control Cabinets(Optional)

1. The panel shall have a three position switch for each room door controlled from this cabinet.
2. All wiring must be concealed.
3. Each switch shall be clearly labeled to show it's positive, close, open, group, and the room door number it controls.
4. A red and green indicator lamp shall be provided with each switch to show either the closed position and condition of the door (Green lamp) or the open position (Red Lamp).
5. A master switch shall also be included in the control panel for group control.
6. A two position power cut-off switch is to be provided t cut off all electrical current to the controls.
7. In addition to the basic optional controls listed above, a third indicator lamp (Amber Lamp) is available. When the third lamp is used, the green lamp shall indicate the door is locked closed. Th door is moving or stopped in mid-travel.
8. Wire harnesses are available for interconnection of a series of devices, from terminal strips within each device, to terminal strips in the mechanical control cabinet.



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## D Type Corridor Door Operator

### Product Model Information

Key	Roller Chain
Door	Remote Electric, Local Mechanical
Security	Maximum

### Description

Type D Operators are high security, motorized door operating systems for use with doors weighing up to 450 pounds.

Note: Units may be adapted to operate doors up to 1,000 pounds.

### Applications

Type D Operators should be specified for entrances, security vestibules, or corridors in maximum security areas. May also be specified for exterior pedestrian gate applications.

### Functions

- Unit unlocks, opens and locks open; or unlocks, closes and deadlocks closed, an individual door.
- Movement of a door may be stopped in mid-travel to reverse its direction. When interrupted, the door is not free-wheeling.
- Interlocking: Any door not closed and deadlocked will also prevent electric operation of all other doors.
- Manual emergency locking, unlocking and operation is accomplished by a clutch release and crank located in the locking column.

### Locking System

The door automatically deadlocks closed at two concealed points at the rear edge of the door. Locking components are not exposed at the front edge of the door and, therefore, not subject to tampering. No components project into the door opening.

### Testing



Type D Operators have been thoroughly function tested, and have been in service since 1949. Folger Adam Security Inc. has established test criteria for this system at 500,000 cycles.

### Standard Features

- **Motor voltage** - 208VAC
- **Rugged chain drive** - Provides sure action of the door under a variety of conditions and installation variables.
- **Heavy-duty construction** - Type D Operators are ruggedly built for a range of detention environments.
- **Tamper-resistance** - All openings in housings are baffled to preclude inmate tampering.
- **Sloped-top housing** - Eliminates hiding of contraband.
- **Flat-top housing** - Provided where operator is installed close to the ceiling.
- **Automatic deadlocking** - Doors automatically deadlock at two concealed points at the rear of the door on closure.
- **Indication switch** - An internal switch monitors deadlocked condition of both locking points.
- **Terminal strip** - All internal components are pre-wired to a terminal strip. The strip is also used for ease of field wiring.
- Meets NFPA 101 Life Safety Code.
- **Adjustable friction clutch** - In case of door blockage, clutch slips until obstruction is removed. If not removed, power to the motor is cut to avoid damage. Adjustment is provided to compensate for various sizes and weights of doors.
- **Emergency manual unlocking and operation** - In event of power failure, unlocking the column provides access to the release mechanism. The door may then be operated by hand crank.

### Optional Features

- **Electric control cabinet** - Control cabinets may be furnished to house all wiring and switches for each door controlled. Three push buttons are provided for each door, labeled: OPEN-CLOSED-STOP.
- Two indicator lamps above the push buttons indicate door position: Red-OPEN, Green-CLOSED and deadlocked.
- **Electrical interlocking** - Wiring and adaptations may be made to permit interlocking of two or more doors in a sallyport or vestibule application. Prevents electric operation of any other interlocked door.
- **Custom graphic consoles** - In many cases, corridor operators are merely one part of a complete security system. For larger installations, or those with particular needs, custom-built control consoles may be easily provided with floor plan graphics screened on the control panel,

and an array of specialized features. (See controls section for further details)

## **Specifications**

### **Drive System**

- Type: Roller chain
- Motor: 208VAC, 60Hz, 1/4HP
- Roller Chain: #41 size
- Hanger and Guides: 1/8" thick
- Rollers: Anti-friction ball bearing with hardened members and grease shield
- Roller Studs: High alloy steel with self-locking nut
- Finish: USP primed

### **Mechanism Housing/Covers**

- Type: 7 gauge steel
- Housing Covers: 10 gauge steel
- Vertical Lock Column Housing: 7 gauge steel
- Vertical Lock Column Covers: 10 gauge steel
- Mechanical Release Column: 7 gauge steel
- Front Receiver: 10 gauge steel

## **Specifications**

### **D Type Corridor Sliding Door Operator**

#### **A. A Chain Drive Corridor Door with Hand Crank Release D**

1. Provide each corridor door operator with a complete system of remote electric locking, unlocking, and motorized movement of the door. Provide a front column at the door for mechanical hand crank release. Each door operator shall include housing and cover, motor-reducer, mechanical clutch assembly, vertical column with concealed 2-point rear locking, hanger, door rollers, track, terminal blocks, limit switches, hand crank assembly, front column, and incidental parts for a complete locking system.
2. Corridor door functions:
  - a. Unlock, open and lock open or closed a 4'0" door in not more than ten seconds.
  - b. Stop and reverse the movement of any door.
  - c. Sallyport or vestibule doors shall be interlocked so that one door can be opened at a time.

- d. Normal force exerted by a door in travel is 55 lbs. This pressure must be adjustable to suit door size and weight.
  - e. Lock doors at the top and bottom in the open and closed positions. Locking points to be concealed within the rear vertical lock column. Front locking is not acceptable.
  - f. Motors shall be sized specifically for corridor doors, and a minimum of 1/6 horse power. Operators that use cell door sized motors, are not acceptable.
  - g. Design mechanism to carry a maximum door weight of from 500 to 1000 pounds.
3. Provide each operator with a front door receiver and release column. Locate a paracentric prison deadlock waist high in the column for access to the emergency release. Locate mechanical clutch release handle inside column. Provide a tool to manually unlock and crank each door open and closed. Operator shall lock when manually cranked to the open or closed positions.
- B. All components must be new and of high quality. Manufacturer to document evidence of testing to over 500,000 operations.
1. Fabricate housings from 7 gauge and covers from 10 gauge mild steel. Secure covers to housing with Torx tamper resistant screws. Baffle all openings leaving no more than 1/4 inch clearance.
  2. Fabricate front and rear columns from 7 gauge mild steel. Fabricate their covers from 10 gauge mild steel. Secure the rear locking column cover from within the housing. Secure front column cover with security screws.
  3. Hanger, guide and guide angle to be 1/4 inch steel.
  4. Turn door rollers from solid 3 3/4 inch diameter steel with 3/8 inch deep groove to engage with 1/2 inch solid cold drawn track. Provide anti-friction sealed ball bearings with hardened races and grease shields. Attach with high alloy treated steel roller studs. Provide eccentric bushing adjustment to level the doors.
  5. Provide a mechanical clutch and release system produced by a nationally recognized manufacturer, to disengage motor for emergency operation.

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## D2B Corridor Door Operator

### Product Model Information

Key	Roller Chain
Door	Remote Electric, Local Mechanical
Security	Maximum

### Description

D2B Operators are high security locking and operating systems for individual sliding doors with a maximum weight not exceeding 450 pounds.

### Applications

3B.2 devices are applicable to any multiple cell or inmate room door situation. Optional controls provide selective operation of single or groups of doors simultaneously.

### Functions

- Unit unlocks, opens or closes and locks closed pre-selected individual doors or door groups, via optional electric controls. Gang release is via mechanical release cabinet.
- Door movement may be stopped in mid-travel leaving the door in a fixed (non-movable) position. The door must be moved (restarted) electrically or mechanically to the open or closed position to lock.
- Direction of movement of any individual door may be reversed without interrupting the movement of other door in the group.
- When a single door is blocked, there is no interruption in the operation of any other door in the group. On removal of the blockage, the door will automatically continue movement to the open or closed position.
- In event of emergency, all doors may be unlocked from the mechanical release cabinet. In mechanical mode, the motor is disengaged from the rack, and doors may be unlocked or re-locked using a special tool.
- In the event of power failure, all doors remain in a fixed position, and must be operated mechanically. Doors are free-wheeling when released.

## Locking System

Upon closure, each door automatically locks at two concealed points at the rear edge of the door. Locking components are not exposed at the front edge of the door and, therefore, not subject to tampering. Components do not project into the door opening.

## Testing

Type 3B.2 Device has been thoroughly function tested, and have been in service since 1994. The Southern Folger Detention Equipment Company has established test criteria for this system at 200,000 cycles.

## Standard Features

- **Motor voltage** - 120VAC
- **Plug-type connectors** - Simplify wire harness installation.
- Rack and pinion gear drive.
- **Heavy duty construction** - 3B.2 devices are built for the rigors of maximum security applications.
- **Tamper-resistance** - Openings in housings are baffled to resist inmate tampering.
- **Selective operation** - Single or groups of doors may be simultaneously opened or closed and deadlocked.
- **Sloped-top housing** - Resists hiding of contraband.
- **Flat-top housing** - Provided where device must install close to ceiling.
- **Cover lock** - Device mechanisms are concealed by an outer cover and unlocked from the release cabinet.
- **Automatic locking** - When fully closed or open, top and bottom locking points on the rear of each door automatically deadlock.
- **Indication switch** - Monitors the deadlocked condition of both locking points.
- **Gang release** - From mechanical release cabinet.
- **Self-contained** - A continuous, surface-mounted housing contains the drive and mechanical release mechanisms and wiring.
- **Full length wire tray** - Simplifies routing of electrical wire harnesses. Runs the full length of the housing.
- Meets NFPA 101 Life Safety Code.

## Optional Features

- **Key Switches** - May be added in columns or nearby for local electric control.
- **Mechanical release cabinet** - A two-position lever handle or crank handle is provided:



Lever provides:

1. **Electric operation** - Door control from a remote location.
  2. **Emergency unlock** - Gang release of all doors in event of emergency or power failure.
- **Electrical/Mechanical control cabinet** - Electrical switches may be ordered to provide control of each door in addition to mechanical function. These switches may be built into the same cabinet as the mechanical levers, or located remotely as needs dictate. The following switch functions are available:

Three position operating switches (Open-Group-Close)

- **Group Switch** - Provides group control (Open-Off-Close)
  - **Power Cut-Off Switch** - Cuts off electrical current to controls.
  - **Indication Lamps** - Red and green indicator lamps may be installed with switches to show deadlocked, closed or open status of each door.
- **Special Indication lamps** - An additional (amber) lamp is available. When used, indication is as follows:
    - **RED** - Locked open.
    - **GREEN** - Deadlocked closed.
    - **AMBER** - Moving, or stopped in mid-travel.
  - **Custom graphic controls** - In many cases, it may be desirable to separate electric controls from the mechanical release cabinet located near the cells. For larger installations, or those with particular needs, custom-built control consoles may be easily provided with floor plan graphics screened on the control panel, and an array of specialized features.
  - **Wire harness** - For applications using a series of locking devices, a wire harness(es) may be specified to interconnect terminal strips in the mechanical control/release cabinet to a plug connector at the door operating unit. Simplifies routing of wire, and saves installation cost and time.

## Specifications

### Drive System

- Drive System
- Rate of travel: Opens or closes a 24" door in approximately 5 seconds
- Motor: 120VAC, 60Hz, 1/20 HP
- Hanger and Guides: 3/16" thick steel
- Rollers: Cold formed steel.
- Rollers are mounted on hardened ball bearings protected by internal

grease shields.

- Finish: USP primed

### **Mechanical Release Cabinet**

- 7 gauge steel.
- Operating Lever: 3/8" steel.
- Cabinet Door: 7 gauge steel, equipped with #3 hinges, #2 pull, and two point locking controlled by a #82 Deadlock.
- Internal Legend
- Panels: 10 gauge steel, gray hammertone finish.
- Finish: USP primed, except legend panels and finish-painted surfaces.

### **Mechanism Housing / Covers**

- Housing: 7 Gauge steel
- Housing Covers: 10 gauge steel, hinged to housing.
- Vertical Lock Column Housing: 7 gauge steel.
- Wire Tray: 16 gauge steel tray.
- Front Receiver Column (optional): 10 gauge.
- Finish: USP primed.

### **Specifications**

#### **3B.2 Locking Device**

High security Motorized sliding cell door device. Remote electrical locking. Unlocking and operation of individual cell doors. Rack and pinion drive. Remotely controlled mechanical gang release.

#### **A. Locking Device Function**

1. Unlock, open and lock open a 24" door in not more than five seconds.
2. Unlock, close and deadlock closed a 24" door in not more than five seconds.
3. Stop the movement of any door in mid-travel without interrupting operation of other doors, leaving the door fixed at that point, so the door cannot be moved by hand in either direction.
4. Simultaneously unlock, open and lock open, or close and deadlock closed any pre-selected group of doors in the block.
5. Instantly reverse the direction of movement of any individual or selected group of doors without disrupting the movement of the remaining doors in the group.
6. Blocking of one door shall not interfere with the operation of any

other door in the group. When blocking object is removed, the door will automatically continue movement to the open or closed position.

7. Each door shall automatically deadlock closed at two concealed points at the rear of the door. Front locking will not be acceptable.
8. In the event of a power failure, all doors may be unlocked manually at the door without interfering with the locked condition of the doors.
9. Door weight not to exceed 300LBS

#### B. Locking Device Components

1. All motors shall be 1/20 Horsepower, single phase, 0.62 F.L.A., 115V, 60 Hertz as produced by a nationally recognized manufacturer.
2. Gear reducers for rack and pinion drives shall be by recognized national manufacturer.
3. Hanger guides to be 3/16" thick steel plate.
4. Hanger to interlock with track support with a clearance of not more than 0".
5. Hanger support rollers to be trimmed from solid steel, 3 7/8" OD grooved 7/32" deep to engage 7 gauge roll formed track.
6. Rollers to have anti-friction ball bearings with hardened members and grease shields on both sides.
7. Roller studs to be high alloy treated steel with eccentric bushing for adjustment and an automatic type self-locking nut.
8. Paint entire assembly, except track, rollers, and drive mechanism with rust inhibiting primer.
9. Wire tray is full length of the transom, formed from 16 gauge steel to accommodate the optional wire harness.

#### C. Mechanism Housing

1. The horizontal mechanism transom plate shall be constructed of 7 gauge mild sheet steel.
2. Transom covers shall be constructed of 10 gauge sheet steel. All openings on transom plate and covers are to be baffled.
3. All removable transom covers will be locked and screwed to the transom and disengaged only from the mechanical control cabinet.
4. The vertical lock post front and back plates shall be constructed of 7 gauge sheet steel and welded together, enclosing non-removable 0" steel drop bar.

#### **Control Cabinets:**

#### D. Mechanical Cabinets (Standard)

1. Control cabinets shall be constructed of 7 gauge sheet steel, painted with one coat of rust inhibiting primer, except plated or finish painted panels.
2. Operating lever shall be chrome plated steel, 3/8" minimum thickness.
3. Cabinet doors to be equipped with two Folger Adam #3FS Hinges, one #2 pull, and one #82 Lock.
4. The two internal panels are constructed of 10 gauge sheet steel with a hammertone gray finish. One contains the above operating levers. The other can be used to locate optional electrical controls.
5. Wire tray of 16 gauge steel is provided from top to the lower half of the cabinet.
6. Terminal strips are provided in the mechanical control cabinet as required to match the quantity of devices served by the cabinet, on a per job basis.

E. Electric Control Cabinets(Optional)

1. The panel shall have a three position switch for each room door controlled from this cabinet.
2. All wiring must be concealed.
3. Each switch shall be clearly labeled to show it's positive, close, open, group, and the room door number it controls.
4. A red and green indicator lamp shall be provided with each switch to show either the closed position and condition of the door (Green lamp) or the open position (Red Lamp).
5. A master switch shall also be included in the control panel for group control.
6. A two position power cut-off switch is to be provided t cut off all electrical current to the controls.
7. In addition to the basic optional controls listed above, a third indicator lamp (Amber Lamp) is available. When the third lamp is used, the green lamp shall indicate the door is locked closed. Th door is moving or stopped in mid-travel.
8. Wire harnesses are available for interconnection of a series of devices, from terminal strips within each device, to terminal strips in the mechanical control cabinet.



## D3B.2 Corridor Door Operator

### Product Model Information

Key	Rack and Pinion
Door	Remote Electric, Local Mechanical
Security	Maximum

### Description

Type D3B.2 Operators are high security locking and operating systems for individual sliding doors to a maximum weight of 350 pounds.

### Applications

D3B.2 Operators should be specified for security entrances, corridor doors, safety vestibules, or sallyports where remote electric control and precise rack and pinion drive are desirable.

### Functions

- Unit unlocks, opens and locks open; or unlocks, closes and deadlocks closed, an individual door.
- Door movement may be stopped in mid-travel, leaving the door in a fixed (non-movable) position. The device must be electrically or mechanically operated or moved to the open or closed position to lock. Pressure exerted by a door in travel is approximately 40 pounds.
- Blockage of a door will not cause motor damage. When obstruction is removed, the door continues movement to the open or closed position.
- Individual doors may be mechanically unlocked at the door.

### Locking System

The door automatically deadlocks closed, and locks open at two points on the rear edge of the door. Locking components are concealed, and not subject to inmate tampering. Components do not project into the door opening.

## Testing

D3B.2 Operators have been thoroughly function tested, and have been in service since 1994. Folger Adam Security Inc. has established test criteria for this system at 500,000 cycles.

## Standard Features

- **Motor voltage** - 120VAC
- Precise, rack and pinion gear drive
- **Detention construction** - D3B.2 Operators are built for the detention environment.
- **Tamper resistance** - All openings are baffled to preclude inmate tampering.
- **Sloped top housing** - Eliminates hiding contraband. Flat top housing is provided where operator must install close to ceiling.
- **Automatic deadlocking** - When fully closed, top and bottom locking points on the rear of each door are forced down into deadlock.
- **Indication switch** - An internal switch monitors the deadlocked condition of both locking locking points.
- Meets NFPA 101 Life Safety Code
- **Remote electric unlocking** - Each door is controlled by a three-position switch (OPEN-OFF-CLOSE)
- **Emergency manual unlocking** - **In event of power failure, a release port may be opened by paracentric key. This action allows use of a "T" handle to disengage motor. The door may then be manually moved to open or closed position.**
- **Emergency release column and door receiver** - Provides mechanical release approximately 3'-6" from the floor. A Paracentric Key unlocks the emergency release handle. Turning the handle releases the motor and unlocks the door. The door may be manually moved to the open or closed position, and locked.

## Optional Features

- **Electrical control console** - Provides a three position switch for each corridor door, accompanied by red and green indication lamps. Operation switches are labeled: OPEN-OFF-CLOSED.

Indication lamps are labeled:

- Red - OPEN
  - Green - CLOSED
- A two position power cut-off switch is also installed to cut power to the controls.
  - Interlocking - Wiring and adaptations may be made to permit

interlocking of two or more doors in a sallyport or vestibule application. Prevents electrical operation of any other interlocked door.

- Custom graphic consoles - In many cases, corridor operators are merely one part of a complete security system. For these larger installations, or those with particular needs, custom built consoles may be easily provided with floor plan graphics screened on the control panel, and an array of specialized features.
- Electrical operation at the door is optional by adding a Prison Key operated key switch. Turning the key in one direction opens the door, the other direction closes it. The key is removable in the off position.

## **Specifications**

### **Drive System**

- Type: Rack and pinion, 10 pitch.
- Gear Motor: 120VAC, 60HZ, 1/20HP
- Hanger and guides: 3/16" thick steel
- Rollers: Anti-friction ball bearings with hardened members and grease shield
- Roller Studs: High alloy treated steel with self -locking nut
- Finish: USP, primed

### **Mechanism Housing / Covers**

- Housing: 7 gauge steel
- Housing Covers: 10 gauge steel
- Vertical Lock Column: 10 gauge steel
- Door Receiver Column: 7 gauge steel, equipped with #17D Lock
- Front Receiver: 10 gauge steel
- Finish: USP, primed

## **Specifications**

### **D3B.2 Locking Device**

High security Motorized sliding cell door device. Remote electrical locking. Unlocking and operation of individual cell doors. Rack and pinion drive. Remotely controlled mechanical gang release. Mechanical release at door. Maximum door weight is 300 lbs.

#### **A. D3B.2 Operator Function**

1. Unlock, open and lock open a 24" door in not more than five seconds.
2. Unlock, close and deadlock close a 24" door in not more than five seconds.

3. Stop the movement of any door in mid-travel without interrupting operation of other doors. Leaving the door fixed at that point, so the door cannot be moved by hand in either direction.
4. Instantly reverse the direction of movement of any single door without disrupting the movement of the remaining doors in the group.
5. Blocking of one door shall not interfere with the operation of any other door in the group. When blocking object is removed, the door will automatically continue movement to the open or closed position.
6. Sallyport or vestibule doors shall be interlocked so that only one door can be opened at a time.
7. Normal force exerted by a door in travel is approximately 40 lbs. Plus 10%.
8. Each door shall automatically deadlock close at two concealed points at rear of door. Front locking will not be acceptable.
9. Individual doors may be unlocked at the door without interfering with the electrical operation of other doors.
10. Door weight not to exceed 300 lbs.

#### B. D3B.2 Operator components

1. All motors shall be 1/20 HP, single phase 115VAC, 60 hz as produced nationally recognized manufacturer.
2. Gear reducers for rack and pinion drives shall be by a nationally recognized manufacturer.
3. Hanger guides to be 3/16" thick steel plate.
4. Hanger to interlock with track support with a clearance of not more than 0".
5. Hanger support rollers to be trimmed from solid steel, 3-7/8" O. D. grooved 7/32" deep to engage 7 gauge roll formed track.
6. Rollers to have anti-friction ball bearings with hardened members and grease shields on both sides.
7. Door hanger bolts to be high alloy treated steel with eccentric bushing for adjustment and an automatic type self-locking nut.
8. Include rubber bumpers to quiet and cushion door.
9. Paint entire assembly, except track, rollers, and drive mechanism with rust inhibiting primer.

#### C. Mechanism Housing

1. The horizontal mechanism transom plate shall be constructed of 7 gauge mild sheet steel.
2. Transom covers shall be constructed of 10 gauge sheet steel. All openings on transom plate and cover are to be baffled.
3. All removable transom covers will be locked and screwed to the transom with torx head screws.



4. The vertical lock post front and back plates shall be constructed of 7 gauge sheet steel and welded together enclosing non-removable 1" steel drop bar.

D. D3B.2 Control Console (Optional)

1. Electric control panels shall be constructed of 10 gauge sheet steel with hammertone gray finish, hinged to the control console.
2. All wiring must be concealed.
3. The panel shall have a three position switch for each corridor door controlled from this console.
4. Each switch shall be clearly labeled to show its position, CLOSE, OPEN, GROUP, and the room door number it controls.
5. A Red and Green indicator lamp shall be provided with each switch to show either the closed position and condition of the door (Green lamp) or open position (Red lamp).
6. A two position power cut-off switch is to be provided to cut off all electrical current to the controls.
7. The control panel shall contain all necessary relays for interlocks.

E. D3B.2 Mechanical Release Column (Standard)

1. A standard emergency release column is available, located at the front of the door. The column provides individual door release by unlocking a Folger Adam 17D Latch and turning the release handle located approximately 42" above the floor. Either single or two sided operation is available.

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## D5B Corridor Door Operator

### Product Model Information

Key	Roller Chain
Door	Remote Electric, Local Electric and Mechanical
Security	Maximum

### Description

Type D5B Operators are high security, motorized locking and operating mechanisms for individual sliding doors not exceeding 450 pounds.

### Applications

D5B Operators may be specified for use in safety vestibules, corridors, or entrances requiring both remote and local control, together with reliable chain drive. Recommended for high-usage entryways or corridors.

### Functions

- Unit unlocks, opens and locks open; or unlocks, closes and deadlocks closed a corridor door.
- A door stopped in mid-travel may be opened or closed manually.
- Direction of movement of a door may be reversed electrically.
- In event of blockage, a torque limiter slips to prevent motor damage. When obstruction is removed, the door will automatically continue movement toward the open or closed position. Pressure exerted by a door in travel is factory set to approximately 40 pounds.
- In event of power failure, door may be released from a column at the door location by use of a paracentric key. The door may be moved manually to an open position.
- NOTE: The same key will operate the door electrically under normal conditions.

### Locking System

- Doors automatically deadlock at two points at the rear of the door. Locking components are fully concealed, and not subject to inmate tampering.
- Local mechanical/electrical control of the door is accomplished by an 80 Series lock in an adjacent column.
- Note: Door receiver is welded to column and shipped as one assembly.

### Testing

D5B Operators have been thoroughly function tested, and have been in service since 1978. The Southern Folger Detention Equipment Company has established testing criteria for this system at 500,000 cycles.

### Standard Features

- **Motor voltage** - 120VAC
- **Rugged chain drive** - Roller chain provides sure action of the door under a variety of conditions and installation variables.
- **Heavy duty construction** - D5B Operators are ruggedly built for the detention environment.
- **Tamper resistance** - Openings in housing are baffled to preclude inmate tampering.
- **Adjustable torque limiter** - Absorbs start up and closing shocks by isolating motor. Allows pressure exerted by the motor to be set to the needs of an individual door. Adjustment is provided to compensate for various sizes and weights of doors.
- **Sloped top housing** - Eliminates hiding of contraband. Flat top housing is provided where unit must install close to ceiling.
- **Automatic locking** - Doors automatically lock at two points.
- **Indication switch** - Monitors deadlocked condition, of both locking points.
- Meets NFPA 101 Life Safety Code
- **Remote, electric unlocking** - Each door is controlled by a three-position switch OPEN-OFF-CLOSE.
- **Local electric key operation** - Use of a paracentric key at the door column activates an electrical circuit opening the door. Turning the key one-quarter turn to the right opens the door; returning the key to center position closes the door.
- **Emergency mechanical unlocking** - In event of power failure, prison paracentric key unlocks the door with a full 180° turn. Door is then moved manually.

### Optional Features

- **Interlocking** - Wiring and adaptations may be made to permit

interlocking of two or more doors in a sallyport or vestibule application. Prevents electric operation of any other interlocked door.

- **Custom graphic consoles** - In many cases, corridor operators are merely one part of a complete security system. For larger installations, or those with particular needs, custom-built consoles may be easily provided with floor plan graphics screened on the control panel, and an array of specialized features.

## Specifications

### Drive System

- Type: Roller chain
- Motor: 120VAC, 60HZ, 1/10 HP
- Roller chain: #41 size
- Hanger and Guides: 1/2" thick steel
- Rollers: Anti-friction ball bearings with hardened members and grease shield
- Roller studs: High alloy steel with self locking nuts
- Finish: USP primed
- Mechanism Housing/Covers
  - Housing: 7 gauge steel
  - Housing Cover: 10 gauge steel
- Vertical Lock Column
  - Housing: 7 gauge steel
  - Vertical Lock Column
  - Cover: 10 gauge steel
- Mechanical Release
  - Column: 7 gauge steel, with 10 gauge steel front receiver
  - Finish: USP primed

#### A. Corridor Sliding Door Operator With M/E release D5B

1. Provide each corridor door operator with remote electric locking, unlocking and motorized movement, with provisions for electric and mechanical key release in the front column. Each door operator shall include housing and cover, motor and chain drive assembly, vertical lock column with concealed 2-point rear locking, hanger, door rollers, track, terminal blocks, limit switches, and incidental parts for a complete system.
2. Corridor door functions:
  - a. Unlock and open or close a 3'0" door in not more than eight seconds.
  - b. Should power failure leave door in mid-travel, it may be manually opened or closed by applying not less than 20

- pounds pressure on the door.
  - c. Electrically reverse the direction of movement of door.
  - d. Interlock sallyport or vestibule doors to where only one door can electrically be opened at a time.
  - e. Normal force exerted by a corridor door in travel is 55 lbs. This pressure must be adjustable to suit door size and weight.
  - f. Lock doors at the top and bottom in the open and closed positions. Locking points to be concealed within the rear vertical lock column. Front locking is not acceptable.
  - g. Design mechanism to carry a maximum door weight of 450 pounds.
  - h. Motors shall be sized specifically for corridor doors, and a minimum of 1/10 horse power. Operators that use cell door sized motors, are not acceptable.
  - i. Any operator that locks the door in mid-travel, or exhibits a free-wheeling condition at any time, is not acceptable.
3. Provide each operator with a front door receiver and release column.
- a. In the event of a power failure, each door may be unlocked with a paracentric key. The lock shall be mounted within the column. The door may then be moved manually to an open position with not less than 20 lbs. of pressure on the door. Operator shall lock when manually moved to the open or closed positions.
  - b. During normal operation same key used for manual operation shall operate door electrically. This feature may be canceled at the electric control console.
  - c. Projecting lugs will not be permitted on the door.
- B. All components must be new and of high quality. Manufacturer to document evidence of testing to over 500,000 operations.
- 1. Fabricate housings from 7 gauge and covers from 10 gauge mild steel. Secure covers to housing with Torx tamper resistant screws. Baffle all openings leaving no more than 1/4 inch clearance.
  - 2. Fabricate front and rear columns from 7 gauge mild steel. Fabricate their covers from 10 gauge mild steel. Secure the rear locking column cover from within the housing. Secure front column cover with security screws.
  - 3. Hanger, guide and guide angle to be 1/4 inch steel.
  - 4. Turn door rollers from solid 3 3/4 inch diameter steel with 3/8 inch deep groove to engage with 1/2 inch solid cold drawn track. Provide anti-friction sealed ball bearings with hardened races and grease shields. Attach with high alloy treated steel roller studs. Provide eccentric bushing adjustment to level the doors.



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## G Type Gate Operator Single and Bi-Parting

### Product Model Information

Key	Roller Chain
Door	Remote Electric, Local Mechanical
Security	Maximum

### Description

Type G Operators are maximum security, motorized sliding gate operators for single or double (bi-parting) gates up to a maximum 24' width. Single gate should not exceed 6,000 pounds, double gates should not exceed 6,000 pounds total.

DESCRIPTION: Type G Operators are maximum security, motorized sliding gate operators for single or double (bi-parting) gates up to a maximum 24' width. Single gate should not exceed 6,000 pounds, double gates should not exceed 6,000 pounds total.

### Applications

G Operators are applicable to any exterior entrance for passenger vehicles or trucks.

### Functions

- Unit unlocks and opens or closes and locks a single door from a set of remote push buttons (OPEN-CLOSE-STOP)
- Unit unlocks and opens or closes and locks a single door from a set of remote push buttons (OPEN-CLOSE-STOP)
- The bi-parting G Operator is manually locked or unlocked at the door by a cremone bolt located in the gates. The gates may then be operated from a remote set of push buttons, (OPEN-CLOSE-STOP)
- In event of emergency or power failure, doors may be mechanically unlocked by prison paracentric key, and hand cranked to open or closed position.
- Gate movement may be stopped in mid-travel, and restarted in the

desired direction by pressing appropriate push button.

- Note: When the operator is in the closed position, it is impossible to move the door(s) to the open position, except by electrical or hand crank methods.

### **Locking System**

- Single Door Model: Secured by an 800 Series lock located in a column at the front of the door.
- Bi-parting Door Model: Secured by cremone bolts operated by prison paracentric key.

### **Testing**

G Operators have been thoroughly function tested, and in service since 1958. TESTING: G Operators have been thoroughly function tested, and in service since 1958.

### **Standard Features**

- **Motor voltage** - 120/208 VAC
- **Rugged chain drive** - Provides sure action of the door under a variety of conditions and installation variables.
- **Heavy duty construction** - G Operators offer welded steel construction and rugged components for durability in exterior applications.
- **Self-supporting** - Heavy columns and beams combine to make the structure self-supporting.
- **Control station** - Three push buttons (OPEN-CLOSE-STOP) provide remote operation. Red and green indicator lights show open and closed condition (respectively) of gates.
- **Interlock feature** - Two or more operators may be electrically interlocked so that only one may be unlocked and operated at a time.
- **Emergency mechanical operation** - In event of power failure unlocking the column provides access to the release mechanism. The door may then be opened by hand crank.

### **Optional Features**

- Custom graphic consoles - In many cases, operators are merely one part of a complete security system. For these larger installations, or those with particular needs, custom-built consoles may be easily provided with floor plan graphics screened on the control panel, and an array of specialized features.

## Specifications

### Drive System

- Type: Roller Chain
- Roller chain: #60
- Motor: 120/208 VAC, 60HZ, 1-1/2 HP
- Trolley Hangers: 1-1/2 ton capacity
- Locking Column: 7 gauge steel plate construction with swinging-type door equipped with two #3 hinges, and secured by an 80 Series Deadlock.

### Mechanism Housing/Covers

- Mechanism Cover: 7 gauge steel plate
- Housing: 7 gauge steel plate
- Gate Guides: 5" I-beam with forged and welded steel guides
- Finish: USP primed, except track, rollers and drive mechanism
- Trolley Track: 8" I-beam x 23 pounds
- Support Beams: 6" WF beam x 20 pounds

## Specifications

Specifications are under review.

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## J Type Sliding Fence Gate Operator

### Product Model Information

Key	Roller Chain
Door	Remote Electric, Local Mechanical
Security	Medium

### Description

Type J Operator is a medium security operating and locking system for standard 14'H x 14'W chain link fence gates. Units may be supplied for gates to a maximum of 16'H x 30'W, maximum weight, 1,000 pounds. Medium security designation is applied, as chain-link fence construction is for medium security applications.

### Applications

Type J Operators are applicable to vehicular entryways for perimeter control. Two or more operators may be installed and interlocked to create vehicular sallyports permitting a secure location for inspection of vehicles and passengers.

### Functions

- Unit unlocks, opens; or closes, and deadlocks a gate electrically, from a remote push button station. When closed, it is impossible to move the gate except by electrical or mechanical methods.
- Movement of a gate in either direction may be stopped and restarted by pressing the appropriate push button.
- Mechanical movement of the gate is accomplished by hand crank in the release column in the event of power failure or emergency.

### Locking System

On closure, locking is accomplished by means of a keyless locking device which engages the gate at three locations in the locking column. In the open position, all openings in the locking column are completely closed to prevent

tampering.

## Testing

Type J Operators have been thoroughly function tested, and in service since 1955. Folger Adam Security Inc. has established test criteria for this system at 500,000 cycles.

## Standard Features

- **Motor voltage** - 208 VAC
- **Rugged chain drive** - Provides sure action of the gate under a variety of conditions and installation variables.
- **Heavy-duty construction** - Welded steel construction coupled with column and H-beam support assure durability.
- **Tamper-resistance** - Drive system is self-contained, mechanism is enclosed when the gate is open.
- **Adjustable friction clutch** - Protects the motor in the event of blockage. If obstruction is not removed, power to the motor is cut off. Adjustment is provided to compensate for various sizes and weights of gates.
- **Automatic deadlocking** - Occurs whenever the gate is closed electrically or manually.
- **Three-point locking** - Gate is locked along leading edge in three locations for security.
- **Weather-resistant construction** - Housing and covers are designed specifically for exterior application.
- **Corrosion resistant working parts** - Critical operating parts are made of corrosion-resistant materials for reliability.
- **Emergency manual operation** - In event of power failure, hand crank operation opens or closes the gate.
- **Interlocking** - When two or more operators are used, interlocking feature allows electrical opening of only one gate at a time.
- **Attachment points** - Standard pipe flanges atop the mechanism track permit attachment of barbed wire.

## Optional Features

- **Operating voltages** - 120VAC, 60HZ, 1 phase
- **Gate width** - Operators may be specified for gate sizes up to 16' high, 30' wide.
- **Control station** - Three push buttons (OPEN-CLOSE-STOP) provide remote operation. Red and green indicator lights show open and closed condition (respectively) of gates.
- **Custom graphic consoles** - In many cases, operators are merely one part of a complete security system. For larger installations, or those with particular needs, custom-built consoles may be easily provided

with floor plan and perimeter graphics screened on the control panel, and an array of specialized features.

## **Specifications**

### **Drive System**

- Type: Roller Chain
- Roller Chain: #40 size
- Motor: 208 VAC, 60HZ, 3 phase 1/3HP
- Motor Housing: 7 gauge steel
- Cover: 10 gauge steel
- Support Structure: Two 8" x 13.75" steel channels
- Center and Aft Support Columns: 4 ½"OD x 4"ID
- Locking Columns: 4" x 4" x 13" H-beam
- Emergency Release Column: 7 gauge steel, hinged access door equipped with #12 Deadlock
- Finish: USP primed

## **Specifications**

### J Type Overhead Suspended Sliding Fence Gate Operator

- A. Provide a type J operator for the coordinated unlocking and operation of sliding chain link fence gates.
- B. Operator to provide supporting structure for the track box and motor drive assembly. Structure shall include locking column at the front edge, release column, and support columns at the center and aft positions.
- C. Material:
  1. The track housing shall be made from 8" x 13.75 lb structural steel channels joined as shown on plans.
  2. Motor housing shall be fabricated from 7 gauge steel plate and provided with weatherproof hinged cover of 10 gauge steel. Both track and motor housing covers shall be fastened with Torx screws to permit easy access for maintenance and adjustment.
  3. Locking column to be fabricated from 4" x 4" x 13 lb H- beam, and provided with a 7 gauge removable cover, locked in place with a deadlock.
  4. Provide 4-1/2" diameter support columns at the center and aft positions.
  5. Hang gate on three sets of trolley capable of supporting 1,000 lb gate. Provide assembly with adjustment to level gates during

installation.

6. Provide 1/3 horsepower motor, 208 volt 3 phase 4 wire, as produced by a nationally recognized manufacturer. Motor shall be protected against overload by thermal safety device in reversing starter.
7. Each gate mechanism shall be provided with manual override to permit the unlocking and mechanical operation of the gate by means of a crank in the release column.
8. When device is in the closed position, it shall be impossible to move the gate to the open position except by electric or mechanical operators provided.
9. Locking to be accomplished by means of keyless locking device, engaging the gate in three places located in the locking column. When gate is in the open position, all openings in the locking column shall be completely closed. Gate shall travel at a rate of speed not less than 30 ft. per minute.
10. Paint entire unit, except rollers and drive mechanism with rust inhibiting primer. Finished assembly shall receive two coats of paint by others. Sprockets, rollers and dry assemblies shall be electro-galvanized.
11. Wiring must be concealed and secured in approved, underground conduit. Control contacts shall be 10 amps.

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