

**Drive:** Roller Chain  
**Release:** Remote Electric & Local Electric & Mechanical  
**Security Level:** Maximum

# D5B CORRIDOR DOOR OPERATOR

## 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 then 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.

## Testing

D5B Operators have been in service since 1978, and tested to 500,000 cycles.

## Standard Features

- **Motor voltage** – 120 VAC.
- **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 housings 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** – Resists 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.



- **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.
- **G90 galvanized finish available.**



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■ **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.

## Dimensional Data

Note: Dimensions are for information and planning purposes only, and should not be used as templates.

The illustration shown is intended for general information and planning purposes only. Folger Adam locking devices are fabricated to the design of the facility.

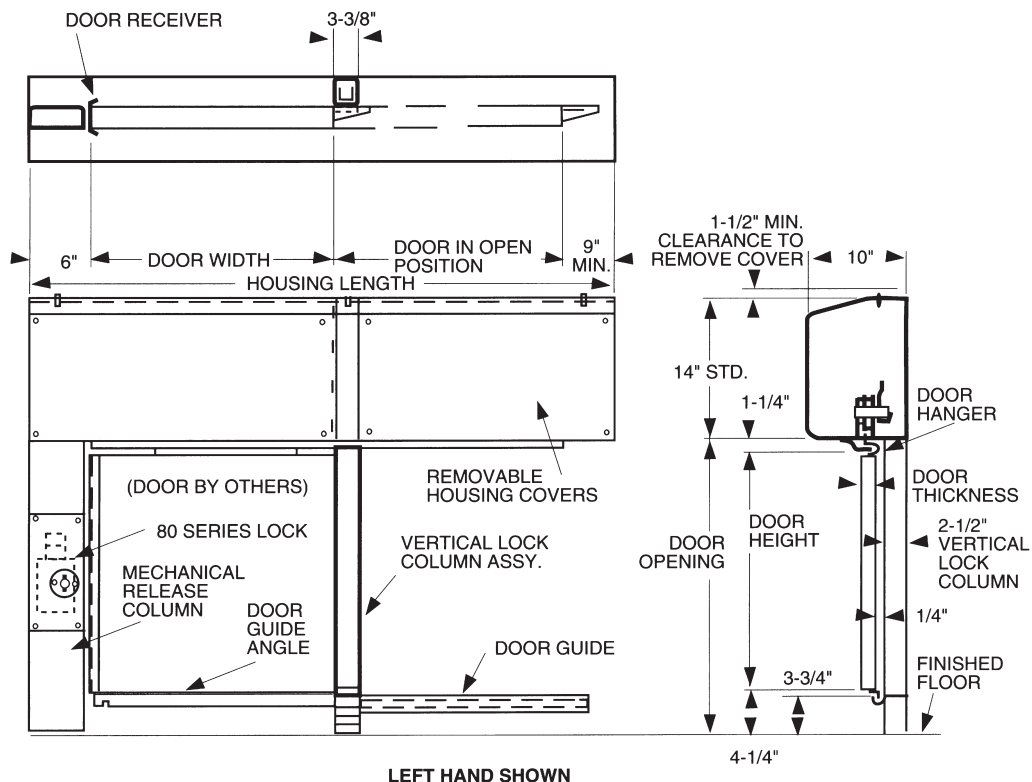
## Specifications

■ **Drive system –**

- Type:** Roller chain.
- Motor:** 120 VAC, 60 HZ, 1/10 HP.
- Roller chain:** #41 size.
- Hanger and guides:** 1/4" thick steel.
- Rollers:** Anti-friction ball bearings with hardened members and grease shield.
- Roller studs:** High alloy steel with self-locking nut.
- Finish:** USP.

■ **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.



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