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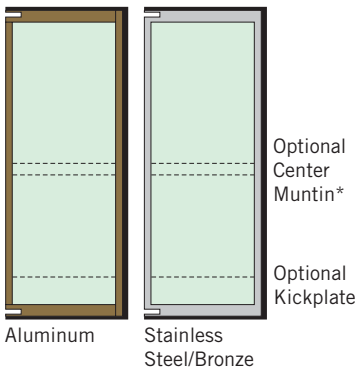
CRANE

**Revolving
Doors**

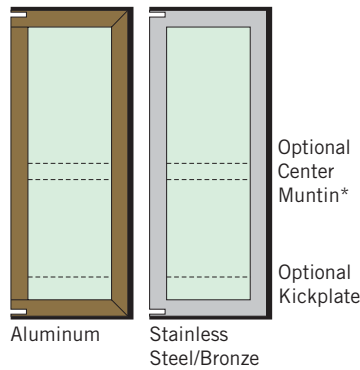


The Choice – Crane Revolving Doors

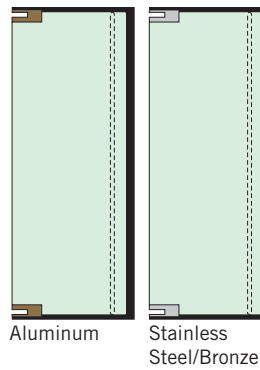
Narrow Stile (2-1/16" min.)



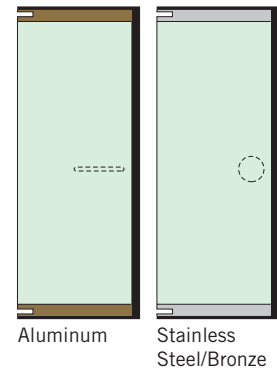
Wide Stile (5")



"All Glass" Type Wing



"Herculite" Type Wing



*Required on Wide Diameter and Security Doors.

Wing Designs for Revolving Doors



Above:
400 North LaSalle
Chicago, IL
Solomon Cordwell Buenz & Associates, Inc.
Benson Industries

Cover photo:
111 South Wacker Drive
Chicago, IL
Lohan Architects
Harmon, Inc.

Opposite page:
Brooklyn Museum of Art
Brooklyn, NY
Polshak & Partners
W & W Glass Systems, Inc.

A revolving door functions as an air lock more efficiently than any other door type. An air lock used to minimize air flow between the interior and exterior while helping control the flow of pedestrian traffic in and out of the building. A door in the form of a cylinder of metal and glass containing two, three, or four wing panels.

Construction of revolving doors is limited only by functionality, local codes, and availability of materials. You choose the glass, metal, and finish as well as design, size, and configuration of your revolving door.

Collaborate with Crane's experienced engineers and draftsmen to take your signature vision to working detailed drawings. Work with our estimators to select materials, finishes and fabrication options to suit your taste, budget and time frame. Employ our skilled craftsmen to produce the form and function you desire. Let Crane create the revolving doors that will be the focal point of your building.

Crane offers architects a choice with three types of revolving door construction.

Crane Welded Door Wings

These doors are cut, formed, and precisely welded from heavy USS 16 gauge stainless steel or 14 B&S gauge bronze sheet and compatible bar stock to create the sturdiest structural elements possible.

The exterior surface metal is fully welded to the interior reinforcing. All four corners of the door wings are welded. The interior enclosure-post-to-base connections are welded as well.

Canopy fascia are visually seamless and attached to the ceiling soffit with concealed welds. All exposed surfaces are ground and polished to eliminate blemishes from rolling, forming, and welding.

Crane Clad Door Wings

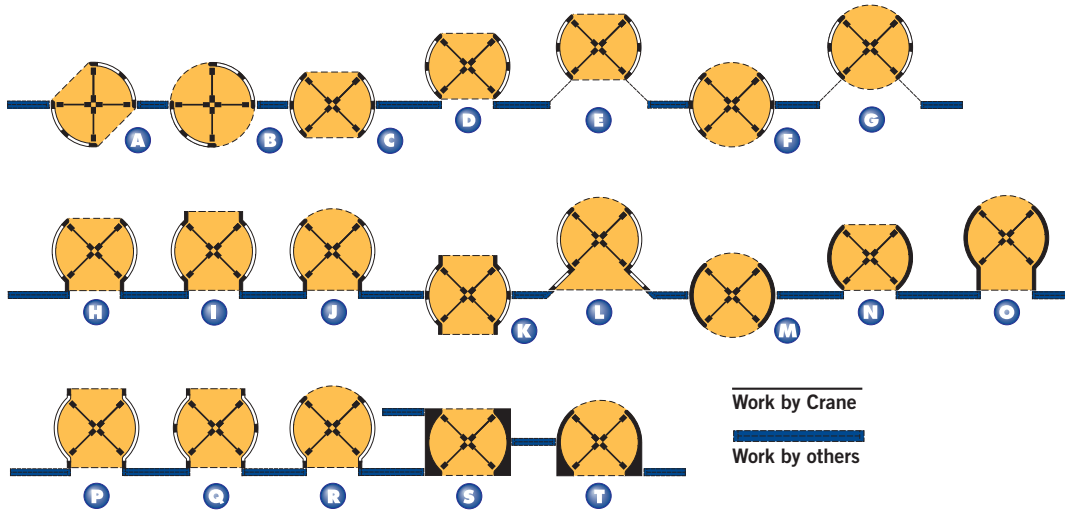
In addition to fully welded construction, Crane fabricates revolving door wings by cladding prefinished metal sheet over full 7 mil exterior grade anodized aluminum substructures. Clad construction is an excellent alternative when Value Engineering is required. Crane clad doors are available in prefinished brushed or mirror stainless steel and bronze.

Crane Aluminum Construction

Crane produces revolving doors from aluminum extrusions and sheet material. Each piece is carefully cut and fitted. Connections are tightly bolted hairline joints. After fabrication, all exposed surfaces are mechanically finished to eliminate marks caused by rolling, forming, and welding. Anodized or painted finish is then applied. All standard colors, as well as most exotics and metallics can be applied.



Typical Attachment Plans



5 Hanover Square
New York, NY
Moed de Armas & Shannon
Door Automation

Hardware Specifications

Attention to detail goes beyond the aesthetics of a revolving door.

To ensure dependable operation with minimum maintenance, we have developed and perfected our own operating hardware. All operating hardware used in Crane doors is manufactured by us or under our direct control.

Speed Control—Free wheeling, precision machined, cast steel gear train mounted in ceiling canopy or floor. Engages brake automatically as speed approaches set r.p.m. Brake shoes are easily adjustable and replaceable.

Bookfold Mechanism—Precision machined chill cast bronze discs and hangers are finished to match door. For safety, a Bookfold Mechanism is required by law on revolving doors in the United States. It provides a fully automatic emergency exit. Release pressure is adjustable to meet local conditions.

Center Shaft—Heavy wall 1-1/4" steel tube with retractable pins to engage the speed control and pivot bearing.

Pivot Bearing—Housing keeps out dirt and moisture. Mounted on shaft end opposite speed control.

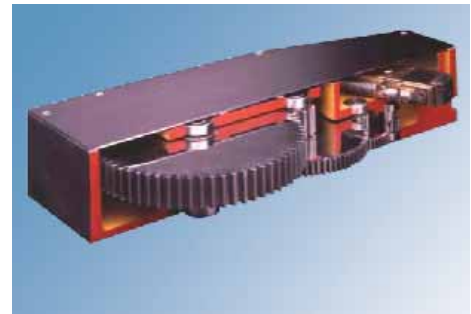
Bumpers—One per door wing, mounted on the top rail.

Push Bars—Same material and finish as the revolving door. Formed from 1/2" x 1-1/2" rectangular bar or 1" diameter round bar. Mounted with through bolts or concealed fasteners.

Custom Push Bars—as detailed on drawings. 1-1/4" maximum projection from face of door stile.

Weathersweep—Black EPDM and woven felt on wings engage the side walls, ceiling and floor, closing the gap to air infiltration.

Speed Control



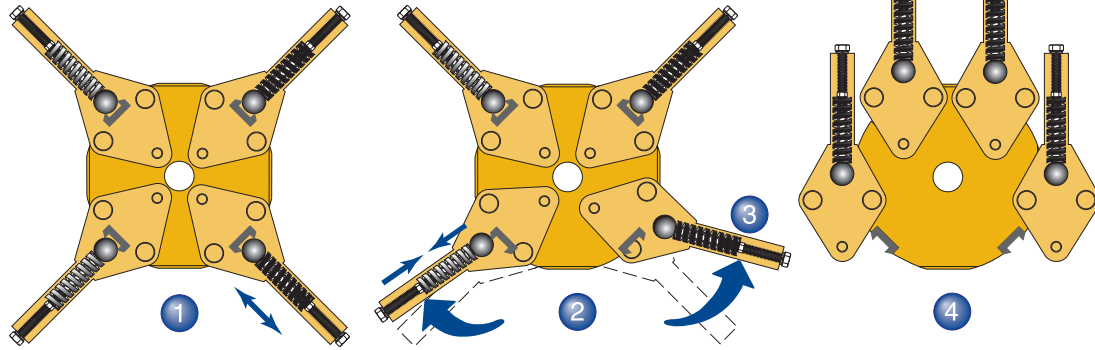
Optional Items

- Slide-A-Side
- Sliding Nite Doors (pg. 7)
- Floor Speed Controls
- Floor Control Cover Plates
- Self-Positioning Closers (pg. 7)
- Ceiling Lights (pg. 7)
- Heavy-Duty Stainless Steel
 - Bookfold Mechanism
 - Concealed Locks
 - Dust-Proof Floor Lock Strikes
 - Custom Push Bars
 - Concealed Push Bar Fasteners
 - Nylon or Horsehair Brush-Type Weathersweep
- Power-Operated Doors
- Security Revolving Doors

Warranty

- 3 years on all parts except glass.
- 5 years on manual speed control.
- Excludes glass and normal wear on weathersweeps and push bars.

Bookfold Mechanism



1 During normal operation, spring tension holds ball in socket maintaining proper wing configuration.

2 Panic pressure on wing compresses spring and releases ball.

3 Minimal pressure is required to continue bookfolding.

4 Wings bookfold either way, providing a clear passage on both sides. Release spring tension is adjustable.

Typical Revolving Door Dimensions

Diameter	Opening		Wall Length		Recommended Maximum Height
	4 Wing	3 Wing	4 Wing	3 Wing	
6' 6" I.D. 1980 mm	4'5-1/4" 1355 mm		4'11-7/8" 1520 mm		9'6" 2895 mm
7' 0" I.D. 2135 mm	4'9-1/2" 1460 mm		5'4-1/8" 1630 mm		9'0" 2745 mm
7'6" I.D. 2285 mm	5'1-3/4" 1570 mm		5'8-3/8" 1735 mm		8'6" 2590 mm
8'0" O.D. 2440 mm	5'3" 1600 mm	3'7-1/8" 1095 mm	5'9-5/8" 1770 mm	6'11-7/8" 2130 mm	8'4" 2540 mm
8'0" I.D. 2440 mm	5'6" 1675 mm	3'9-1/4" 1150 mm	6'0-5/8" 1845 mm	7'3-1/2" 2220 mm	8'0" 2440 mm
9'0" I.D. 2745 mm	6'2-1/2" 1890 mm	4'3-1/4" 1300 mm	6'9-1/8" 2060 mm	8'1-7/8" 2485 mm	7'0" 2135 mm
10'0" I.D. 3050 mm	6'11" 2110 mm	4'9-1/4" 1455 mm	7'5-5/8" 2275 mm	9'0-5/16" 2750 mm	7'0"* 2135 mm

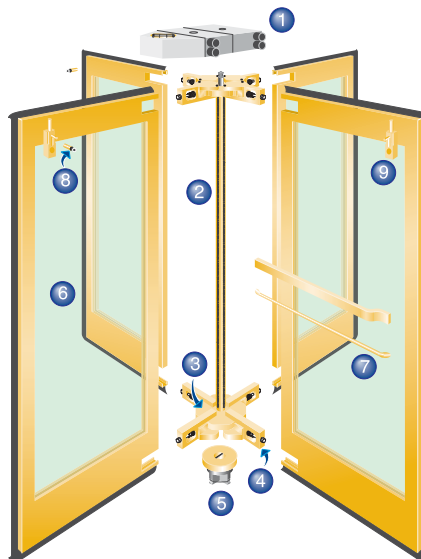
Standard Sizes

*Requires Crane Patented Bookfold Lock



Revolving Door Rehab Kits

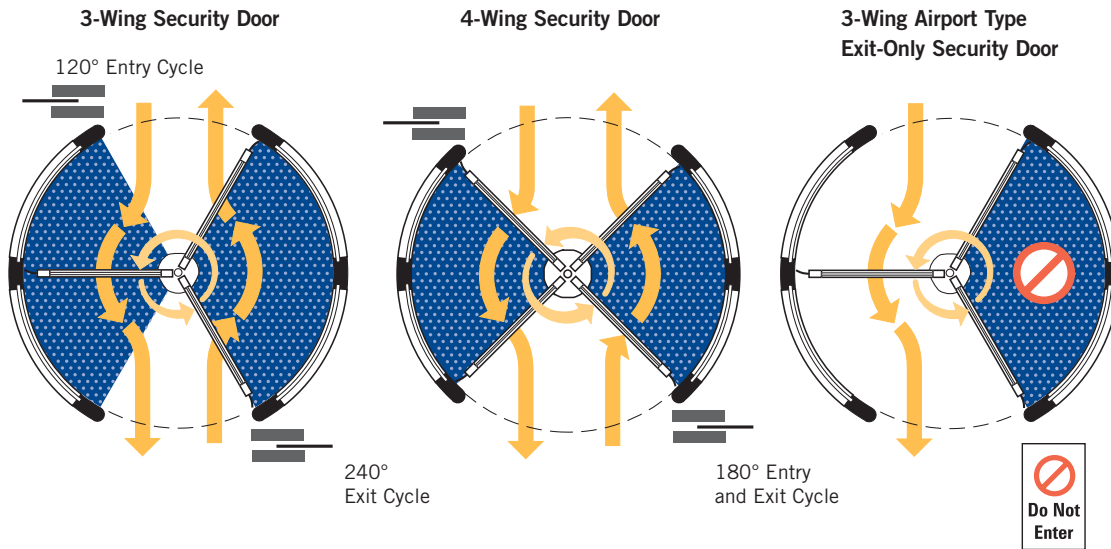
When it's time to rehabilitate an existing entrance, Crane rehab kits for revolving doors provide an economical alternative to a completely new door. They include wings and operating hardware fabricated to fit the existing enclosure of any original manufacturer.



- 1 Speed Control
- 2 Center Shaft with Cover
- 3 Hanger Discs
- 4 Hangers
- 5 Pivot Bearing
- 6 Wings with Glazing and Weathersweeps
- 7 Push Bars
- 8 Bumpers
- 9 Lock Cases

Longs Jewelers
Boston, MA
Brand & Allen Architects, Inc.
Salem Glass

Security and Power-Operated Revolving Doors



Huntington Bank, Northland Operations
Columbus, OH
Vocon Design, Inc.
G Force Automatic Doors, LLC

Power-Operated Revolving Doors*

Crane power-operated doors fill some special niches in the entrance marketplace.

Doors can be set up and operated in continuous rotation or in response to signals from sensors or push buttons. The door returns to the rest position at the end of the cycle. Slow speed operation is available with push button start.

Two-Way Security Doors

Power-operated doors from Crane allow one- or two-way controlled entrance and exit. Card reader shows green light when card is accepted and door begins entry cycle. Exit can be free, card controlled or by motion sensor.

Floor mat detects unauthorized use, prevents entry and triggers a voice announcement of security violation.

Airport Type Exit-Only Security Doors

Crane's one-way, exit-only revolving doors are proving popular in airport security applications.

Banks of these doors allow crowds and luggage to exit secure areas unhindered.

***All power-operated revolving doors manufactured by Crane Revolving Door Company will comply to the new ANSI Code A156.27-2003.**

Exit-only door operation is triggered via sensor or push button. Door returns to a preset position at the end of the cycle. Of course, slow speed and full manual operation are also possible.

Floor mat detects unauthorized use, prevents entry and triggers a voice announcement of security violation.

Crane Security Doors

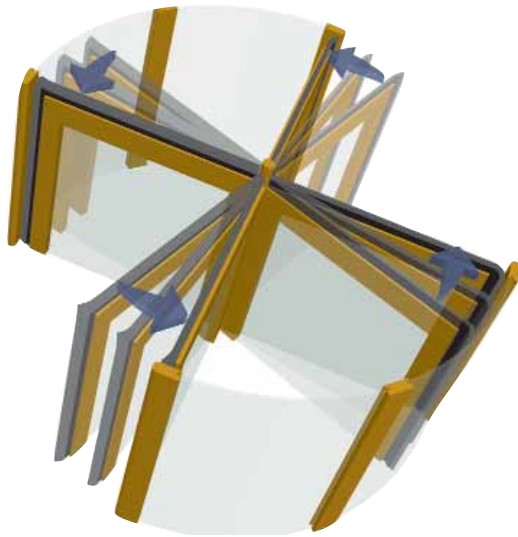
Every Crane door is equipped with our bookfold mechanism which meets both ANSI, NFPA Life Safety, and International Building codes.

Power and security components include the Crane Collapse Lock, patented in 1990, to prevent unauthorized bookfold of door, and enclosure posts with edge sensor strips. 12" or 18" minimum canopy height is required to house power-operated and security components.

Available options include battery back-up power and remote lock down. Further information on security doors is available by calling Crane at 800-942-7263.

Warranty

3 years on all parts except glass.
1 year on all automatic and automatic-security door components.
Excludes glass and normal wear on weathersweeps and push bars.



Self-Positioning Closers

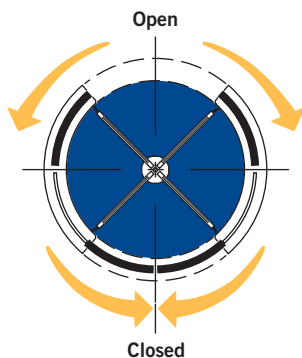
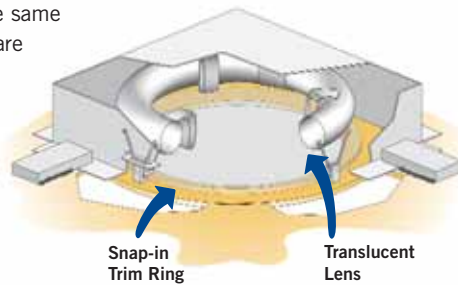
Architects and building owners choose revolving doors for their energy efficiency and ease of use.

The self-positioning closer enhances both features. It senses when the door comes to rest at any position other than closed, rotating the door to the closed position with all four door wing weathersweeps in contact with the enclosure wall. The door is then set in the most welcoming position for the next user while maintaining the maximum weather seal between the indoor and outdoor environments.

The self closer's low-energy drive (15 pounds or less in compliance with ANSI A 156.19[4.4]), fits into a 7" high canopy and plugs into a 110 volt outlet.

Ceiling Lights

Optional fixtures consisting of translucent lens and snap-in trim ring of the same material and finish as the door are mounted flush in the ceiling. White painted steel fixture for 8 inch circline fluorescent lamp mounted inside the canopy. (Circline lamp and 110 VAC wiring hookup not provided by Crane.) Custom installations are also available.



Sliding Nite Doors

Revolving doors with solid metal or metal and glass constructed enclosures can also include Sliding Nite Security Doors. When closed, the exterior enclosure presents a solid metal or metal and glass cylinder that does not allow access into the enclosure. When open, the nite doors retract.

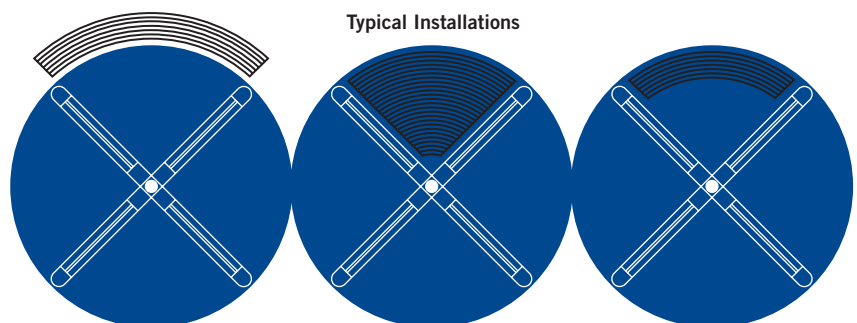
111 South Wacker Drive
Chicago, IL
Lohan Architects
Harmon, Inc.

Welded Floor Grates (see photo — above right)

Crane now offers curved floor grates in pie shapes, quarter radians or arcs. Grates are custom fabricated from concentrically rolled circles of stainless steel or bronze bar and finished to match doors.

Fully welded heavy duty construction of 1/4" x 1" bar stock eliminates flexing of components. 1/4" spacing minimizes heel-catching. In-floor drain pans are also available.

U.S. Patent No. 5,291,714





Crane Manual, Automatic, and Security Revolving Doors can be found in all types of buildings worldwide:

- Retail Stores
- Hotels
- Institutional Buildings
- Airports and Transportation Facilities
- Commercial Buildings
- Restaurants
- Sports Stadiums



Design and Technical Support

Up to date details and specifications for Crane products are available to architects and customers on the web at www.cranedoor.com, in printed detail books, or on interactive CD.

Museum of Modern Art
New York, NY
Kohn Pederson & Fox Associates
Allied Bronze Corp.

CRANE Revolving Doors

924 Sherwood Drive
Lake Bluff, Illinois 60044
Phone: 800.942.7263 or
847.295.2700

Website: www.cranedoor.com
Fax: 847.295.5288

E-Mail: sales@cranedoor.com

