ARCHITECTURAL DOOR HARDWARE
HINGE CATALOG

January 1, 2017 v3

West Coast Office
(800) 544-4422

East Coast Office
(800) 225-6737

intldoorclosers.com
HINGES
• CONTINUOUS HINGES
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SPECIAL FINISHES
• Standard Colors ..................................................................... 13
CONCEALED/MORTISE LEAF Hinges

- Any Door Material
- Heavy Duty for high frequency 1 3/4” doors or heavy medium frequency doors up to 450lbs.
- 117FM (Heavy Duty), 217FM (Heavy Duty)

<table>
<thead>
<tr>
<th>MODEL</th>
<th>LENGTH</th>
<th>SCREW COUNT</th>
<th>CLEARANCE</th>
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<td>217FMC-120</td>
<td>120</td>
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<td>27</td>
</tr>
</tbody>
</table>

*Note: First 3 numbers = (Product #), FM = (Full Mortise), C or D = (Finish), 83, 95 & 120 = (Length)

FASTENERS:
- All fasteners as No. 12-24 x 1/16” Type C, FHUC
- Heavy Duty Hinges - 10 required for each leaf

LENGTH OPTIONS:
- 83”, 95” & 120”

DOOR REINFORCEMENT:
- None needed to 200 lbs
- Use 16 gauge channel over 200 lbs

FRAME REINFORCEMENT:
- None needed to 200 lbs
- Use 16 gauge channel over 200 lbs

FIRE RATING:
- Up to 3 Hours

SPECIAL FEATURES:
- For new construction
- For renovation with new door and / or frames
- No mortising of doors or frames required
- Will cover hinge cut outs in frames
- Flush mount no inset
- Frame and door leaf alignment ribs for proper hinge location

STANDARD FINISHES:
- C (Clear Anodized Aluminum), D (Duro Anodized Aluminum)

SPECIAL ORDER FINISHES:
- PW (Painted White), G (Gold Anodized Aluminum), BL (Black Anodized Aluminum)
CONTINUOUS HINGES
ALUMINUM FULL SURFACE GEARED HINGES

FULL SURFACE HINGES

- Any Door Material
- Heavy Duty for high frequency 1 3/4" doors or heavy medium frequency doors up to 450lbs.
- 317FS (Heavy Duty), 417FS (Heavy Duty), 517FS (Heavy Duty)

<table>
<thead>
<tr>
<th>MODEL</th>
<th>LENGTH</th>
<th>SCREW COUNT</th>
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*Note: First 3 numbers = (Product #), FS = (Full Surface), C or D = (Finish), 83, 95 & 120 = (Length)

FASTENERS:
(Self-Tapping Screws)

<table>
<thead>
<tr>
<th>FRAME PORTION</th>
<th>DOOR PORTION</th>
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</thead>
<tbody>
<tr>
<td>All fasteners as No. 12-24 x 1/16&quot; Type C, FHUC</td>
<td>Thrubolt 1/4-20 x 1 5/8&quot; PCH</td>
</tr>
<tr>
<td>Heavy Duty Hinges - 10 required for each leaf</td>
<td>Heavy Duty Hinges - 6 required for each leaf</td>
</tr>
<tr>
<td></td>
<td>Shoulder bolt 1/4 - 20 x 1&quot; PCH</td>
</tr>
<tr>
<td></td>
<td>Heavy Duty Hinges - 6 required</td>
</tr>
</tbody>
</table>

LENGTH OPTIONS: 83", 95" & 120"

DOOR REINFORCEMENT:
- None needed

FRAME REINFORCEMENT:
- None needed to 200 lbs
- Use 16 gauge channel over 200 lbs

FIRE RATING:
Up to 3 Hours

SPECIAL FEATURES:
- Replacement for existing doors and frames
- 7/8" minimum frame
- 1/16" inset

STANDARD FINISHES:
- C (Clear Anodized Aluminum), D (Duro Anodized Aluminum)

SPECIAL ORDER FINISHES:
- PW (Painted White), G (Gold Anodized Aluminum), BL (Black Anodized Aluminum)
CONTINUOUS HINGES
ALUMINUM HALF SURFACE GEARED HINGES

HALF SURFACE HINGES

- Any Door Material
- Heavy Duty for high frequency 1 3/4" doors or heavy medium frequency doors up to 450lbs.
- 617HS (Heavy Duty)

<table>
<thead>
<tr>
<th>MODEL</th>
<th>LENGTH</th>
<th>SCREW COUNT</th>
<th>CLEARANCE</th>
</tr>
</thead>
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*Note: First 3 numbers = (Product #), FS = (Half Surface), C or D = (Finish), 83, 95 & 120 = (Length)

FASTENERS:
(Self-Tapping Screws)
- FRAME PORTION
  - All fasteners as No. 12-24 x 1/16" Type C, FHUC
  - Heavy Duty Hinges - 10 required for each leaf
- DOOR PORTION
  - Thrubolt 1/4-20 x 1 5/8" PCH
  - Heavy Duty Hinges - 6 required for each leaf
  - Shoulder bolt 1/4 - 20 x 1" PCH
  - Heavy Duty Hinges - 6 required
  - Pan Head Self Drilling No. 12 x 3/4"
  - Heavy Duty Hinges - 4 required

LENGTH OPTIONS: 83", 95" & 120"

DOOR REINFORCEMENT:
- None needed

FRAME REINFORCEMENT:
- None needed to 200 lbs
- Use 16 gauge channel over 200 lbs

FIRE RATING:
- Up to 3 Hours

SPECIAL FEATURES:
- For new construction
- For renovation with new door and / or frames
- No mortising of doors or frames required
- Will cover hinge cut outs in frames
- Flush mount no inset
- Frame and door leaf alignment ribs for proper hinge location

STANDARD FINISHES:
- C (Clear Anodized Aluminum), D (Duro Anodized Aluminum)

SPECIAL ORDER FINISHES:
- PW (Painted White), G (Gold Anodized Aluminum), BL (Black Anodized Aluminum)
## CROSS REFERENCE CHART
### CONTINUOUS GEAR HINGES

<table>
<thead>
<tr>
<th>TYPE</th>
<th>IDC</th>
<th>ROTON</th>
<th>SELECT</th>
<th>PEMKO</th>
<th>MCKINNEY</th>
<th>STANLEY</th>
<th>IVES</th>
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<tbody>
<tr>
<td>Full Concealed</td>
<td>117FM</td>
<td>780-111HD</td>
<td>SL11SD/HD</td>
<td>FMLSFD</td>
<td>MCK-12-HD</td>
<td>661HD</td>
<td>112HD</td>
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<tr>
<td>Full Concealed Mortise Leaf</td>
<td>217FM</td>
<td>780-124HD</td>
<td>SL245D/HD</td>
<td>FMHD</td>
<td>MCK-25HD</td>
<td>662HD</td>
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<td>Full Surface</td>
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<td>780-157HD</td>
<td>SL57SD/HD</td>
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<td>Full Surface</td>
<td>417FS</td>
<td>780-210HD</td>
<td>SL215D/HD</td>
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<td>780-053HD</td>
<td>SL54HD</td>
<td>HSHD</td>
<td>MCK-54HD</td>
<td>663HD</td>
<td>054XY</td>
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### Diagrams
- **117FM**
- **317FS**
- **517FS**
- **217FM**
- **417FS**
- **617HS**
STAINLESS STEEL CONTINUOUS HINGES

IDC stainless steel hinges are full height piano hinges that provide support for the full height of the door.

- For doors up to 600 lbs.
- 4’0” maximum door width
- Hinge leaves are 14 Ga., 304 stainless steel
- Pin is 1/4 diameter 304 stainless steel, barrel .438 diameter
- Knuckles are 2” long with Delrin TM bearings between each
- Hinges -Nominal Sizes 7’ (83-1/8”), 8’ (95”) & 10’ (118-3/4”) are non-handed. 6’8” (78-3/4”) & 7’2” (85”) are handed
- Special lengths available
- Standard finish-US32D
- Fire Rating-UL and ULC fire Listed
  - 3 hours-hollow metal door
  - 90 min.-hollow metal and composite core wood fire door
  - 20 min.-wood door
- Custom Cutouts available
- Supports door weights up to 600 lbs. 4’0” Maximum door width
- Electrical modifications available
- UL & ULC fire listed
- Heavy-Duty 14 Gauge 304 Stainless Steel
- US32D Satin Stainless Steel
- No exposed fasteners when door is closed
- Self drilling screws
- Concealed
- For square edged doors
- For high traffic, high abuse doors
- Heavy-Duty 14 Gauge 304 Stainless Steel
- US32D Satin Stainless Steel
- No exposed fasteners when door is closed
- Self drilling screws
- Supports door weights up to 600 lbs.
- 4’0” Maximum door width
- Door edge lip on both faces of door
- Protects door edge
- Adjustable to accommodate slight variances in door thickness
- For specialty door – Use with A538CS or A538CB
- Electrical modifications available
- UL & ULC fire listed

IDCA500 EDGE MOUNT CONCEALED
- For beveled or square edged doors
- For 1-3/4” doors
- For high traffic, high abuse doors
- Heavy-duty 14 Gauge 304 Stainless Steel
- US32D Satin Stainless Steel
- No exposed fasteners when door is closed
- Self drilling screws
- Supports door weights up to 600 lbs. 4’0” Maximum door width
- Electrical modifications available
- UL & ULC fire listed

IDCA505 EDGE GUARD
- Concealed
- For square edged doors
- For 1-3/4” doors
- For high traffic, high abuse doors
- Heavy-Duty 14 Gauge 304 Stainless Steel
- US32D Satin Stainless Steel
- No exposed fasteners when door is closed
- Self drilling screws
- Supports door weights up to 600 lbs.
- 4’0” Maximum door width
- Door edge lip on both faces of door
- Protects door edge
- Adjustable to accommodate slight variances in door thickness
- For specialty door – Use with A538CS or A538CB
- Electrical modifications available
- UL & ULC fire listed

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**IDCA511**  SWING CLEAR WITH EDGE GUARD

- Concealed
- Flush mount
- For square edged doors
- For 1-3/4” doors
- For high traffic, high abuse doors
- Heavy-Duty 14 Gauge 304 Stainless Steel
- US32D Satin Stainless Steel
- Door edge lip on stop side only
- Self drilling screws
- Supports door weights up to 600 lbs.
- 4’0” Maximum door width
- No exposed fasteners when door is closed
- Meets ADA requirements
- UL & ULC fire listed

**IDCA515**  WITH EDGE GUARD

- Concealed
- For square edged doors
- For 1-3/4” doors
- For high traffic, high abuse doors
- Heavy-Duty 14 Gauge 304 Stainless Steel
- US32D Satin Stainless Steel
- Door edge lip on stop side only
- Self drilling screws
- Supports door weights up to 600 lbs.
- 4’0” Maximum door width
- No exposed fasteners when door is closed
- UL & ULC fire listed

**HALF SURFACE IDCA503**  SURFACE MOUNTED DOOR LEAF

- For beveled or square edged doors
- For 1-3/4” doors
- For high traffic, high abuse doors
- Heavy-Duty 14 Gauge 304 Stainless Steel
- US32D Satin Stainless Steel
- Self drilling screws
- Supports door weights up to 600 lbs.
- 4’0” Maximum door width
- Decorative fastener cover
- Current transfer prep available (frame leaf only)
- UL & ULC fire listed
**IDCA504**  SURFACE MOUNTED FRAME LEAF

- For beveled or square edged doors
- For 1-3/4” doors
- For high traffic, high abuse doors
- Heavy-Duty 14 Gauge 304 Stainless Steel
- US32D Satin Stainless Steel
- Self drilling screws
- Supports door weights up to 600 lbs.
- 4’0” Maximum door width
- Decorative fastener cover
- Current transfer prep available (door leaf only)
- UL & ULC fire listed

**IDCA506**  WITH EDGE GUARD

- For square edged doors
- For 1-3/4” doors
- For high traffic, high abuse doors
- Heavy-Duty 14 Gauge 304 Stainless Steel
- US32D Satin Stainless Steel
- No exposed fasteners when door is closed
- Self drilling screws
- Supports door weights up to 600 lbs.
- 4’0” Maximum door width
- Door edge lip on stop side
- Protects door edge
- Decorative fastener cover
- Current transfer prep available (door leaf only)
- UL & ULC fire listed

**FULL SURFACE IDCA502**  FULL SURFACE/FLUSH MOUNT

- For beveled or square edged doors
- For 1-3/4” doors
- For high traffic, high abuse doors
- Heavy-Duty 14 Gauge 304 Stainless Steel
- US32D Satin Stainless Steel
- No exposed fasteners when door is closed
- Self drilling screws
- Supports door weights up to 600 lbs.
- 4’0” Maximum door width
- Decorative Fastener Covers
- UL & ULC fire listed
PIN AND BARREL CONTINUOUS HINGES IDCA5500

12 GAUGE STAINLESS STEEL

- Full Mortise Edge Mount
- Used on high-traffic, high-abuse doors
- Heavy-Duty 12 Gauge 304 Stainless Steel
- US32D Satin Stainless Steel
- No exposed Fasteners when door is closed
- Supplied with 12-24x1/2 Phillips Undercut Flat Head Machine Screw S.S.
- Supports door weights up to 900 lbs.
- 4’-0” Maximum door width
- Nominal Sizes 7’, 8’ & 10’ are non-handed
- 6’8” & 7’2” are handed hinges
- 1/4” diameter stainless steel pin
- Electrical modifications available

STAINLESS STEEL POWER TRANSFER HINGES

CONCEALED THRU WIRE

- For all full concealed models (except A511)
- TW2 - (2) 18ga. wire 1 location
- TW4 - (4) 28ga. wire 1 location
- TW8 - (8) 28ga. wire (2) - 4 wire locations
- For all full concealed models add suffix TW2, TW4 or TW8
- Call factory or go on-line for order form

MOVEABLE

- Cut to allow access for TW, CT, ES and AMS wiring between hinge and frame or door
- For all full concealed models (except A511)
- Add suffix M

CONTINUOUS HINGE MODIFICATIONS

- Special Lengths-Indicate Handing
- Hospital Tip-Suffix HT
- Dutch Door Prep-Suffix DD, indicate handing, clearances, door and frame heights
- Blank-No holes for special applications
- Standard Edge Guard Cutout 4-7/8’ ASA Strike 161 Latch 86 Mortise Manual Flush Bolt Automatic Flush Bolt
- Security Stud-Suffix SS, stainless steel studs mounted to frame leaf. Corresponding holes drilled in door leaf. Special prep required for frame and door
- Sheared Leaf-Suffix SL for narrow door thickness. Specify distance from pin centerline to heel edge of hinge
- Custom Hole Pattern-Suffix CH, any hole dimension or pattern other than IDC standard. Indicate hole size and dimensions

ELECTRICAL MODIFICATIONS

- Concealed Power Transfer-Suffix TW2, TW4 or TW8
- Power Transfer Contact Switch- uffix CT-4 or CT-8, for 16 amp surge current, 1/4 -20 screws posts to accommodate any gauge wire, no wire furnished
- Lead-Lined Cover-Suffix LL for surface mount only
- Current Transfer Prep-Suffix PT, indicate position and handing
- Electric Power Transfer-PT105 (11.5”) or PT180 (20.0”). Does not include hinge, hinge power transfer prep or Security bracket (PTS)
- Exposed Monitoring Switch-Suffix ES available in A500, A503, A504, A505 & A515
- Adjustable Monitoring Switch-Suffix AMS

Contact factory or go on-line for order forms for electrical modifications or standard/custom cutouts.
<table>
<thead>
<tr>
<th>IDC</th>
<th>MARKAR</th>
<th>HAGER</th>
<th>STANLEY</th>
<th>IVES</th>
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<td>IDCA500</td>
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DOOR EDGE GUARDS

- Standard lengths 78-3/4”, 83-1/8”, 85”, 96”, 118-3/4”
- Special lengths available
- For bevel edge door (Suffix B) or square edge door (Suffix S)
- For 1-3/4” door

- Material 16 Gauge, 304 Stainless Steel
- For high traffic, high abuse doors
- Standard cutouts available
- Custom Cut-outs available as required
- Non-handed (except with cutouts)

IDCA528 EDGE GUARD

- 3/4” door edge lip, one side
- Bevel and square edge available

IDCA538C EDGE GUARD

- 3/4” door edge lip, both sides
- Bevel and square edge available

IDCA548T EDGE GUARD WITH ASTRAGAL

- 3/4” door edge lip, both sides with astragal one side
- Bevel and square edge available

STANDARD CUTOUTS

- Other cutouts or order forms available online (www.intldoorclosers.com) or contact factory
# ARCHITECTURAL HINGES

## FULL MORTISE BALL BEARING Hinges

<table>
<thead>
<tr>
<th>Weight</th>
<th>Model</th>
<th>Description</th>
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<tbody>
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<td><strong>Standard Weight</strong></td>
<td>IDCBB814545US26D</td>
<td>5 Knuckle Ball Bearing 4.5 x 4.5 Steel Hinge, Dull Chrome</td>
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<td>IDCBB814545US32D</td>
<td>5 Knuckle Ball Bearing 4.5 x 4.5 Stainless Steel Hinge</td>
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<td>IDCBB814540689</td>
<td>5 Knuckle Ball Bearing 4.5 x 4.0 Hinge, Aluminum Powder Coat</td>
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<td>IDCBB814540695</td>
<td>5 Knuckle Ball Bearing 4.5 x 4.0 Hinge, Dark Bronze Powder</td>
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<td>IDCBB814540800</td>
<td>5 Knuckle Ball Bearing 4.5 x 4.0 Hinge, Black Powder Coat</td>
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<tr>
<td><strong>Heavy Weight</strong></td>
<td>IDC4B814545US26D</td>
<td>5 Knuckle Ball Bearing 4.5 x 4.5 Steel Hinge, Dull Chrome</td>
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<tr>
<td></td>
<td>IDC4B814545US10B</td>
<td>5 Knuckle Ball Bearing 4.5 x 4.5 Steel Hinge, Oil Rubbed Bronze</td>
</tr>
<tr>
<td></td>
<td>IDC4B814545US32D</td>
<td>5 Knuckle Ball Bearing 4.5 x 4.5 Stainless Steel Hinge</td>
</tr>
</tbody>
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## FULL MORTISE SPRING HINGES

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>IDCSP814545US26D</td>
<td>Spring Hinge 4.5 x 4.5 Steel Hinge, Dull Chrome</td>
</tr>
<tr>
<td>IDCSP814545US10B</td>
<td>Spring Hinge 4.5 x 4.5 Steel Hinge, Oil Rubbed Bronze</td>
</tr>
</tbody>
</table>

## FULL MORTISE SWING CLEAR BALL BEARING HINGES

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDCSCBB814545US26D</td>
<td>Swing Clear 4.5 x 4.5 Steel Hinge, Dull Chrome</td>
</tr>
<tr>
<td>IDCSCBB814545US10B</td>
<td>Swing Clear 4.5 x 4.5 Steel Hinge, Oil Rubbed Bronze</td>
</tr>
</tbody>
</table>

## IDCAHP SERIES

5 Knuckle 2 Bearing Spring Hinge

**Size:**
- 4.0”x4.0”
- 4.5”x4.0”
- 4.5”x4.5”
- 5.0”x5.0”
- Other specs are available.

**Finishes Available:**

**Options:**
NRP (Non-Removable Pin)
**Applications**

Installed in the center hinge position of the door, PTH Power Transfer Hinges provide the concealed wires required between the door and the frame, for the purpose of powering and monitoring electric door hardware.

- Electric Lock Power and Control
- Door and Lock Status Signaling
- Request-to-Exit Signaling

**Electric Power Transfer Device**

- IDC’s heavy duty Electric Power Transfer Device provides a concealed and secure means of transferring electric lock and exit device power and signal wires from the frame to the door.
- Completely concealed when the door is closed.
- The PTD Electric Power Transfer Device is ideal for heavy traffic and applications requiring higher security to inhibit tampering and abuse.

**Model**

- **PTH-2+4**: 16 Amp Inrush, 6 conductor power transfer hinge
  - 1-pair 16 Amp inrush, 4 Amp continuous;
  - 2-pair 1 Amp @ 12/24V
  - 4.5” x 4.5” standard weight
  - 626 Dull Chrome finish

- **PTH-4**: Four (4) Conductor Power Transfer Hinge
  - 1 Amp @ 12/24V per pair
  - 4.5” x 4.5” standard weight

- **PTH-10**: Ten (10) Conductor Power Transfer Hinge
  - 1 Amp @ 12/24V per pair
  - 4.5” x 4.5” standard weight

**Finish**

All base material, steel.
- 626 Dull Chrome (*standard*)
- 605 Bright Brass
- 613 Oil Rubbed Bronze
- 625 Bright Chrome

**Options**

- PTH hinge with door position switch

- **DPS**: Concealed Door Position Switch
  - SPDT, 250mA @ 30VDC
  - Consult factory for 3 knuckle, and special size
SPECIAL FINISHES

STANDARD COLORS

SPECIAL ORDER

DS 716 + 2103/01
9010
6021

DS 733 + 2301/01
9005
6002

DS 733 + 1802/02
7004
1035

DS 733 + 1001/01
8014
DS 708 + 5001/01

DS 733 + 1401/01
9022
Light 001 (Glow In The Dark)

CUSTOM COLORS AVAILABLE