DOOR OPERATORS AND MOTORS

POWER OPERATORS - MANUAL SHEAVES - MOTORS
Freight Door Operators and Motors

Q Style Door Operator .........................................................................................................................3
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Cross Drive Operators .......................................................................................................................12
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Where Used
COURION “Q” Series Power Operated Freight Doors with dual operators.

Dual motors available on jobs with large hoistway doors.

Features and Notes
Operator contains oversized, fully sealed ball bearings for exceptional life.

Motor has totally enclosed, non-ventilated cast aluminum housing with built-in junction box with conduit fitting.

Duty: Average torque = 28.0 oz. ft. Minimum torque at stall = 24.5 oz

Sub Assemblies
(For additional details - see pages that follow)

<table>
<thead>
<tr>
<th>Item #</th>
<th>Part #</th>
<th>Part Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>02-250000</td>
<td>Door Operator - without motor</td>
</tr>
<tr>
<td>2</td>
<td>02-252001</td>
<td>Door Operator Sheave Gear Assembly</td>
</tr>
<tr>
<td>3</td>
<td>90-854000</td>
<td>Motor - 25 oz.</td>
</tr>
</tbody>
</table>

Handed
Yes  No
If part is handed, you must specify Right or Left Hand.

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<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>02-250000</td>
<td>Door Operator - without motor</td>
<td>Includes: Operator housing, shaft, sheave, dust shield, and ball bearings. Motor not included. If you want complete Door Operator - please see 02-250001 Q Style Operator.</td>
</tr>
<tr>
<td>02-252001</td>
<td>Door Operator Sheave Gear Assembly</td>
<td>Includes one (1) Door Operator Shaft (#02-251500), one (1) Door Operator Sheave Gear (#02-252000), and two (2) Ball Bearings (#90-805300).</td>
</tr>
<tr>
<td>90-854000</td>
<td>Motor - 25 oz.</td>
<td>600 RPM, 230VAC, 3 PH, 60 hz., 1.4 amps - Class H, 3-Phase. Labeling: CSA and RU (registered UL component) Please provide information from motor name plate when ordering.</td>
</tr>
</tbody>
</table>
Where Used
COURION "P" Series power operated freight doors with dual operators.

Also see Door Operator - with 32 oz. Motor (Part #02-198603).

Features and Notes
Please provide the COURION JOB NUMBER, JOB NAME, or JOB LOCATION when ordering.

Explosion Resistant Door Operators available.

Includes Mounting Hardware Kit #94-000030.

**Sub Assemblies**
(For additional details - see pages that follow)

<table>
<thead>
<tr>
<th>Item #</th>
<th>Part #</th>
<th>Part Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>02-100309</td>
<td>Sheave Gear Assembly</td>
</tr>
<tr>
<td>2</td>
<td>02-198601</td>
<td>Door Operator - without motor</td>
</tr>
<tr>
<td>3</td>
<td>90-852600</td>
<td>Motor - 16 oz.</td>
</tr>
</tbody>
</table>

Handed □ Yes □ No
If part is handed, you must specify Right or Left Hand.
Door Operator - with 32 oz. Motor

Where Used
COURION “P” Series power operated freight doors with dual operators.

See also Door Operator - with 16 oz. Motor (Part #02-198602)

Features and Notes
Please provide COURION JOB NUMBER, JOB NAME, or JOB LOCATION when ordering.

Explosion Resistant Door Operators available.

Includes Mounting Hardware Kit #94-000030.

Sub Assemblies
(For additional details - see pages that follow)

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<thead>
<tr>
<th>Item #</th>
<th>Part #</th>
<th>Part Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>02-100309</td>
<td>Sheave Gear Assembly</td>
</tr>
<tr>
<td>2</td>
<td>02-198601</td>
<td>Door Operator - without motor</td>
</tr>
<tr>
<td>3</td>
<td>90-852800</td>
<td>Motor - 32oz</td>
</tr>
</tbody>
</table>

Handed
★ Yes  ○ No
If part is handed, you must specify Right or Left Hand.
## Operators and Motors

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Handed</th>
<th>Parts Manual</th>
<th>Classification 1</th>
<th>Classification 2</th>
<th>Classification 3</th>
<th>Print As Main Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>02-100309</td>
<td>Sheave Gear Assembly</td>
<td></td>
<td>Yes</td>
<td>Door Equipment</td>
<td>Operators and Motors</td>
<td>Dual Operators</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Includes one (1) Sheave Gear (#02-100307), two (2) Ball Bearings (#90-805300), and one (1) Operator Shaft (#02-100103).</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>02-101800</td>
<td>Operator Filler Pad</td>
<td></td>
<td>Yes</td>
<td>Door Equipment</td>
<td>Operators and Motors</td>
<td>Dual Operators</td>
<td>Yes</td>
</tr>
<tr>
<td>02-102000</td>
<td>Motor Adapter Plate</td>
<td></td>
<td>Yes</td>
<td>Door Equipment</td>
<td>Operators and Motors</td>
<td>Dual Operators</td>
<td>Yes</td>
</tr>
<tr>
<td>02-102100</td>
<td>Door Operator Motor Pinion</td>
<td></td>
<td>Yes</td>
<td>Door Equipment</td>
<td>Operators and Motors</td>
<td>Dual Operators</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Used on Door Operators with Explosion Resistant Motors (#90-853700). Made out of 4150 heat-treated steel for extra hardness and durability.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>02-198601</td>
<td>Door Operator - without motor</td>
<td></td>
<td>Yes</td>
<td>Door Equipment</td>
<td>Operators and Motors</td>
<td>Motors</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Includes, Sheave Gear Assembly (#02-100309) and Operator Housing Assembly. Motor must be purchased separately.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>90-852600</td>
<td>Motor - 16 oz.</td>
<td></td>
<td>Yes</td>
<td>Door Equipment</td>
<td>Operators and Motors</td>
<td>Motors</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>600 RPM, 220V, 0.9 amps, 3-Phase</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Please provide information from motor name plate when ordering.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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### Manual Sheaves

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Where Used</th>
<th>Features and Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>02-260000</td>
<td>Sheave Assembly - Q Style</td>
<td>COURION “Q” Series manually operated freight doors with dual sheaves.</td>
<td>Includes necessary mounting hardware.</td>
</tr>
<tr>
<td><strong>03-399700</strong></td>
<td>Sheave Assembly - 5”</td>
<td>COURION “H” and “D” Series manually operated freight doors with dual sheaves.</td>
<td>5” Sheave</td>
</tr>
<tr>
<td><strong>03-399702</strong></td>
<td>Sheave Assembly - 5”</td>
<td>COURION “H”, “D” and “P” Series manual freight doors with dual sheaves.</td>
<td>5” Sheave. Used when it is probable that the freight doors will be converted to power operation sometime in the future. Includes necessary mounting hardware.</td>
</tr>
<tr>
<td><strong>03-499600</strong></td>
<td>Sheave Assembly - 6”</td>
<td>COURION “X” Series manually operated freight doors with dual sheaves.</td>
<td>6” Sheave</td>
</tr>
</tbody>
</table>

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Manual Sheaves

03-499700
Sheave Assembly - 7-1/4"

Where Used
COURION “X” Series manually operated freight doors with dual sheaves.

Features and Notes
7-1/4" Sheave

Handed ☐ Yes ☐ No

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# Manual Sheaves

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Sheave Size</th>
<th>Where Used</th>
<th>Features and Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>03-304000</td>
<td>4&quot;</td>
<td>COURION Door Idler Sheaves</td>
<td>Available in Brass</td>
</tr>
<tr>
<td>03-305000</td>
<td>5&quot;</td>
<td>COURION ‘P’ Series Manual Sheave, and Car Gate Idler Sheave</td>
<td>5&quot; Sheave</td>
</tr>
<tr>
<td>03-405400</td>
<td>6&quot;</td>
<td>COURION “X” Series Manual Sheaves</td>
<td>6&quot; Sheave</td>
</tr>
<tr>
<td>07-228303</td>
<td>7-1/4&quot;</td>
<td>COURION “X” Series Manual Door Sheaves and “P” Series Car Gate Operators.</td>
<td>Available in bronze. Include (4) External Retaining Rings (#90-886500), and (1) 3/16 x 1-1/4 Square Key</td>
</tr>
</tbody>
</table>

Handed  ○ Yes  ○ No
**Manual Sheaves**

**07-228304**  
*Sheave Rubber Band*  
Where Used  
COURION “X” Series Manual Door Sheaves and “P” Series Car Gate Operators.

**Features and Notes**

<table>
<thead>
<tr>
<th>Handed</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>

**90-805700**  
*Ball Bearing*  
Where Used  
COURION “P” Series manual sheaves, and “Q” Series Car Gate Operator

**Features and Notes**

<table>
<thead>
<tr>
<th>Handed</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>

**94-000031**  
*Manual Sheave Hardware Kit*  
Where Used  
COURION P and Q Style Manual Sheaves

**Features and Notes**

| Handed | Yes | No |
Cross Drive Operator - without Motor

Where Used
COURION Cross Drive Power Freight Doors.

Cross Drive Operators are job specific.

Motor must be purchased separately.

Please provide COURION JOB NUMBER, JOB NAME, or JOB LOCATION when ordering.

Sub Assemblies
(For additional details - see pages that follow)

<table>
<thead>
<tr>
<th>Item #</th>
<th>Part #</th>
<th>Part Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>02-100305</td>
<td>Cross Drive Gear Assembly</td>
</tr>
<tr>
<td>2</td>
<td>02-100502</td>
<td>Cross Drive Gear Assembly</td>
</tr>
<tr>
<td>3</td>
<td>02-400301</td>
<td>Sprocket</td>
</tr>
<tr>
<td>4</td>
<td>02-400700</td>
<td>Hub Cover</td>
</tr>
<tr>
<td>5</td>
<td>90-000102</td>
<td>Sprocket</td>
</tr>
<tr>
<td>6</td>
<td>90-805300</td>
<td>Ball Bearing</td>
</tr>
</tbody>
</table>

Handed
@ Yes ☐ No

If part is handed, you must specify Right or Left Hand.

Features and Notes
Includes Door Operator Hardware Kit #94-000030.

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Cross Drives

02-100304
Cross Drive Gear Assembly
Where Used
COURION Cross Drive Operators.

Features and Notes

02-100305
Cross Drive Gear Assembly
Where Used
COURION Cross Drive Operators.

Features and Notes
Includes Sheave Gear, Shaft, and Cross Drive Gear.

02-100306
Cross Drive Gear Assembly (Obsolete)
Where Used
Obsolete. COURION Cross Drive Operators.

Features and Notes

02-100404
Cross Drive Gear Assembly
Where Used
COURION Cross Drive Operators.

Features and Notes
Cross Drives

02-100502
Cross Drive Gear Assembly
Where Used
COURION Cross Drive Operators.

Features and Notes
Includes Gear and Shaft

Handed ○ Yes ○ No

02-100503
Cross Drive Gear Assembly
Where Used
COURION Cross Drive Operators.

Features and Notes

Handed ○ Yes ○ No

02-100702
Ball Bearing Spacer
Where Used
COURION Cross Drive Operators.

Features and Notes

Handed ○ Yes ○ No

02-100703
Ball Bearing Spacer
Where Used
COURION Cross Drive Operators.

Features and Notes

Handed ○ Yes ○ No

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Cross Drives

02-101700
Ball Bearing Spacer
Where Used
COURION Cross Drive Operators.
Features and Notes

02-400301
Sprocket
Where Used
COURION Cross Drive Operators.
Features and Notes

02-400700
Hub Cover
Where Used
COURION Cross Drive Operators.
Features and Notes

90-000100
Sprocket
Where Used
COURION Cross Drive Operators and Adjustable Sheaves
Features and Notes
Available in stainless.

Handed ○ Yes ◯ No

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### Cross Drives

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Type</th>
<th>Where Used</th>
<th>Features and Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>90-000102</td>
<td>Sprocket</td>
<td>COURION Cross Drive Operators.</td>
<td></td>
</tr>
<tr>
<td>90-804700</td>
<td>Ball Bearing</td>
<td>COURION Cross Drive Operators and Adjustable Sheaves</td>
<td></td>
</tr>
</tbody>
</table>

**Features and Notes**

- **Handed**: Yes ∘ No

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<table>
<thead>
<tr>
<th>SKU</th>
<th>Description</th>
<th>Where Used</th>
<th>Features and Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>03-299500</td>
<td>Adjustable Sheave Assembly</td>
<td>COURION Cross Drive Power Freight Door Operators.</td>
<td>Cross Drive Adjustable Sheaves are job specific. Please provide COURION JOB NUMBER, JOB NAME, or JOB LOCATION when ordering.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>03-299600</td>
<td>Adjustable Sheave Assembly</td>
<td>COURION Cross Drive Power Freight Door Operators.</td>
<td>Cross Drive Adjustable Sheaves are job specific. Please provide COURION JOB NUMBER, JOB NAME, or JOB LOCATION when ordering.</td>
</tr>
<tr>
<td></td>
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</tr>
<tr>
<td>03-299700</td>
<td>Adjustable Sheave Assembly</td>
<td>COURION Cross Drive Power Freight Door Operators.</td>
<td>Cross Drive Adjustable Sheaves are job specific. Please provide COURION JOB NUMBER, JOB NAME, or JOB LOCATION when ordering.</td>
</tr>
<tr>
<td></td>
<td></td>
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</tr>
<tr>
<td>03-299800</td>
<td>Adjustable Sheave Assembly</td>
<td>COURION Cross Drive Power Freight Door Operators.</td>
<td>Cross Drive Adjustable Sheaves are job specific. Please provide COURION JOB NUMBER, JOB NAME, or JOB LOCATION when ordering.</td>
</tr>
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<td></td>
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</tbody>
</table>
Adjustable Sheaves

03-299900  Adjustable Sheave Assembly

Where Used
COURION Cross Drive Power Freight Door Operators.

Cross Drive Adjustable Sheaves are job specific.

Please provide COURION JOB NUMBER, JOB NAME, or JOB LOCATION when ordering.

Features and Notes

Handed ☐ Yes ☐ No
## Adjustable Sheaves

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Where Used</th>
<th>Features and Notes</th>
<th>Handed</th>
</tr>
</thead>
<tbody>
<tr>
<td>02-400300</td>
<td>Sprocket</td>
<td>COURION Adjustable Sheaves</td>
<td>41B12 Sprocket with 3/4&quot; bore</td>
<td>Yes</td>
</tr>
<tr>
<td>03-200100</td>
<td>Shaft</td>
<td>COURION Adjustable Sheaves</td>
<td></td>
<td></td>
</tr>
<tr>
<td>03-200300</td>
<td>Shaft</td>
<td>COURION Adjustable Sheaves</td>
<td></td>
<td></td>
</tr>
<tr>
<td>03-200500</td>
<td>Shaft</td>
<td>COURION Adjustable Sheaves</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Adjustable Sheaves

03-200800
Sheave Adjustment
Where Used
COURION Adjustable Sheaves

Features and Notes

03-200900
Pivot Pin
Where Used
COURION Adjustable Sheaves

Features and Notes

03-201000
Sheave Mounting Plate
Where Used
COURION Adjustable Sheaves

Features and Notes

03-226000
Adjustable Sheave Housing
Where Used
COURION Adjustable Sheaves

Features and Notes
Adjustable Sheaves

03-226100
Hinge Bracket
Where Used
COURION Adjustable Sheaves

Features and Notes

03-231000
Adjustable Sheave
Where Used
COURION Adjustable Sheaves

Features and Notes

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<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Where Used</th>
<th>Features and Notes</th>
<th>Handed</th>
</tr>
</thead>
<tbody>
<tr>
<td>90-852600</td>
<td>Motor - 16 oz.</td>
<td>COURION P Style Door Operators and Cross Drive Operators</td>
<td>600 RPM, 220V, 0.9 amps, 3-Phase</td>
<td>Yes</td>
</tr>
<tr>
<td>90-852800</td>
<td>Motor - 32oz</td>
<td>COURION P Style Door Operators and Cross Drive Operators</td>
<td>600 RPM, 32 oz. - 220V - 1.8 amps, 3-Phase</td>
<td>No</td>
</tr>
<tr>
<td>90-853100</td>
<td>Motor - 65 oz.</td>
<td>COURION P Style Door Operators and P and Q Style Car Gates</td>
<td>600 RPM, 65 oz. - 220V 3.2 amps, 3-Phase</td>
<td>Yes</td>
</tr>
<tr>
<td>90-853700</td>
<td>Motor - 32 oz (Explosion Resistant)</td>
<td>COURION P Series power operated freight doors.</td>
<td>Motor Pinion required when used for freight door operator (Part #: 02-102100)</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Please provide information from motor name plate when ordering.

EXPLOSION Resistant(Class I, Div 1 & 2, Group D)(Class II, Div 1 & 2, Group F & G)

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### Motors

#### 90-854000

**Motor** - 25 oz.

**Where Used**
COURION Q Style Operators

**Features and Notes**
- 600 RPM, 230VAC, 3 PH, 60 hz., 1.4 amps - Class H, 3-Phase
- Labeling: CSA and RU (registered UL component)

<table>
<thead>
<tr>
<th>Handed</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>

#### 90-958500

**Motor** - 16 oz (Explosion Resistant)

**Where Used**
COURION X Series power operated freight doors.

**Features and Notes**
- 600 RPM, 16 oz, 220v 0.8 amps, 3-Phase
- Explosion Resistant (Class I, Div 1 & 2, Group D)(Class II, Div 1 & 2, Group F & G)

<table>
<thead>
<tr>
<th>Handed</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>