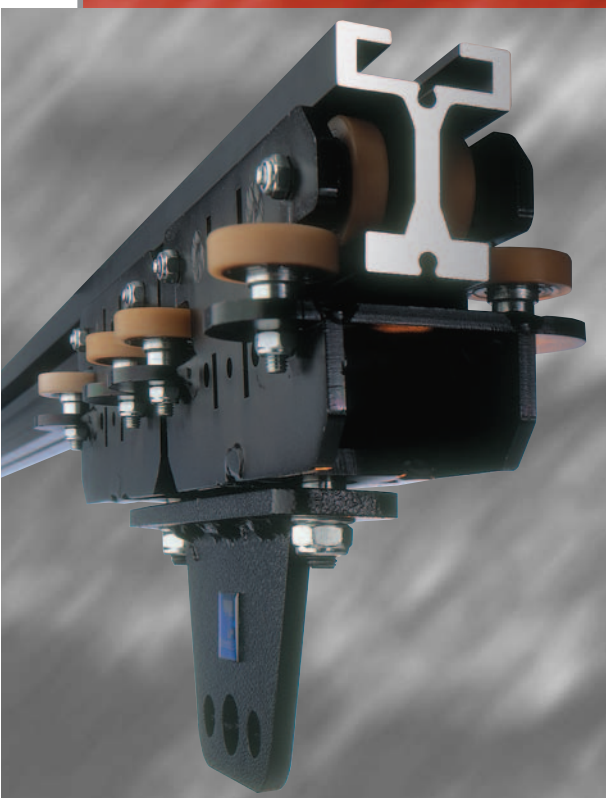


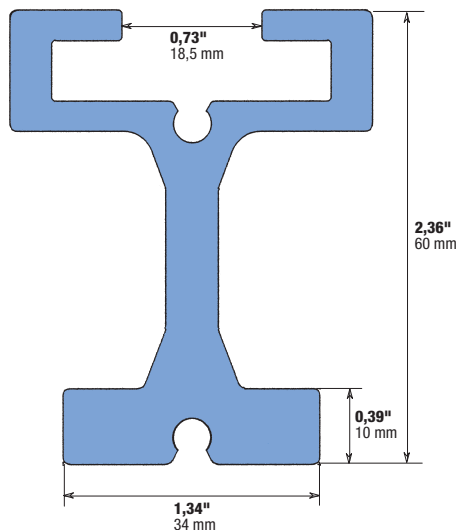
TRACK SYSTEM



# JOKER 95

# JOKER 95 TRACK SYSTEM

- JOKER 95 is strong, compact and quiet, perfect for large main curtains and scenery.
- The system is designed for installation on pipes / truss and for permanent applications
- For movement of scenery, several heavy duty carriers are available.
- Available as top cord or side cord systems on straight and curved tracks.
- Top groove of track designed for suspension bracket, joint set and cord attachments.
- Simple mounting of FRICTION-DRIVE and TRAC-DRIVE motors.
- Simple mounting on all substructures.



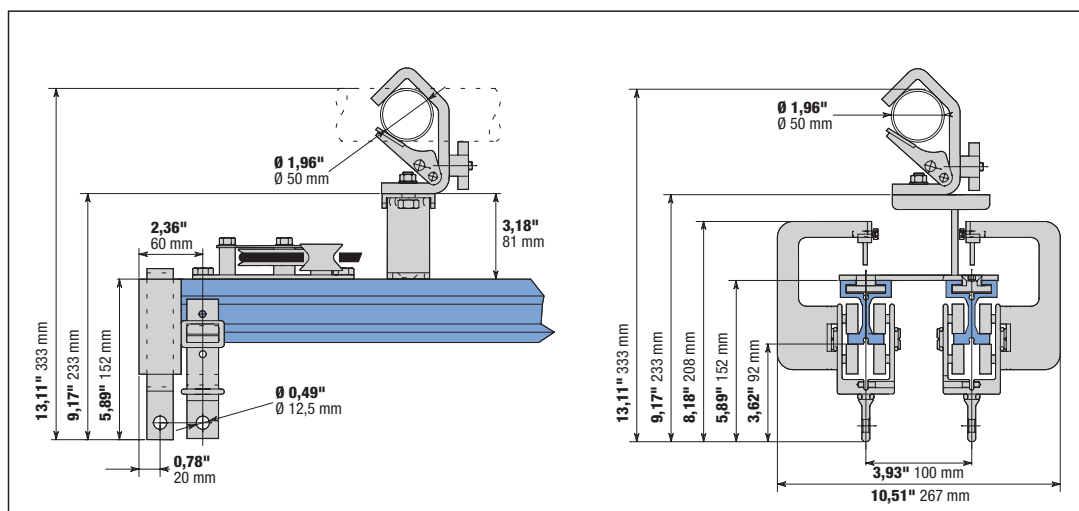
■ Track cross section 1:1

## TECHNICAL DATA

|                                   |                          |                            |
|-----------------------------------|--------------------------|----------------------------|
| Weight                            | 1.7 lbs./ft. (2.520 g/m) |                            |
| Length of section                 | 19' 8" (6,00 m)          |                            |
| Maximal distance btw. suspensions | 9.8' (3,00 m)            |                            |
| Min. curve radius                 | 6.6' (2,00 m)            |                            |
| Runner                            | Friction bearing         |                            |
| Load ratings                      |                          |                            |
| Distance btw. suspensions         | Midspan point loading    | Uniformly distributed load |
| 3.3' (1,00 m)                     | 440 lbs. (200 kg)        | 268 lbs./ft. (400 kg/m)    |
| 4.9' (1,50 m)                     | 330 lbs. (150 kg)        | 201 lbs./ft. (300 kg/m)    |
| 6.6' (2,00 m)                     | 220 lbs. (100 kg)        | 134 lbs./ft. (200 kg/m)    |
| 9.8' (3,00 m)                     | 110 lbs. ( 50 kg)        | 67 lbs./ft. (100 kg/m)     |
| Carrying capacity                 |                          |                            |
| Master runner                     | 66 lbs. (30 kg)          |                            |
| 2-wheeled-runner                  | 44 lbs. (20 kg)          |                            |
| 4-wheeled-runner                  | 66 lbs. (30 kg)          |                            |
| Master runner HD                  | 176 lbs. (80 kg)         |                            |

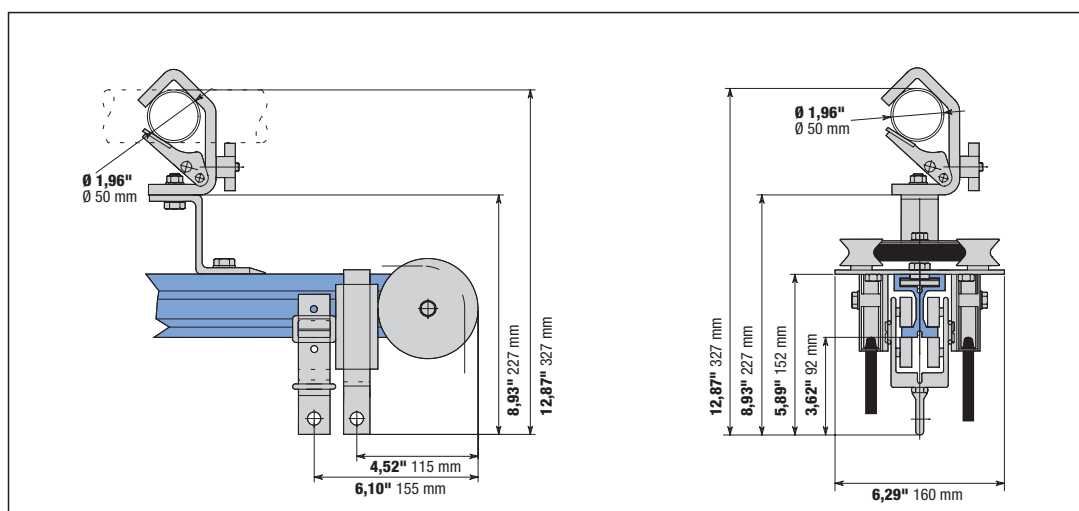
## Top cording applications

- For installations directly into the structure, top cord suspension bracket # 8368 is required.
- For installations onto pipe or truss, top cord suspension bracket # 8368 and hook clamp # 8814 are required.



## Side cording applications

- For installations directly into the structure, side cord suspension bracket # 8367 is required.
- For installations onto pipe or truss, side cord suspension bracket # 8367 and hook clamp # 8814 are required.



## Mounting considerations

- Track height must be calculated into the overall curtain height dimension.
- Please calculate additional length of head pulley and return pulley for overall length of track system.

## Stacking space calculation

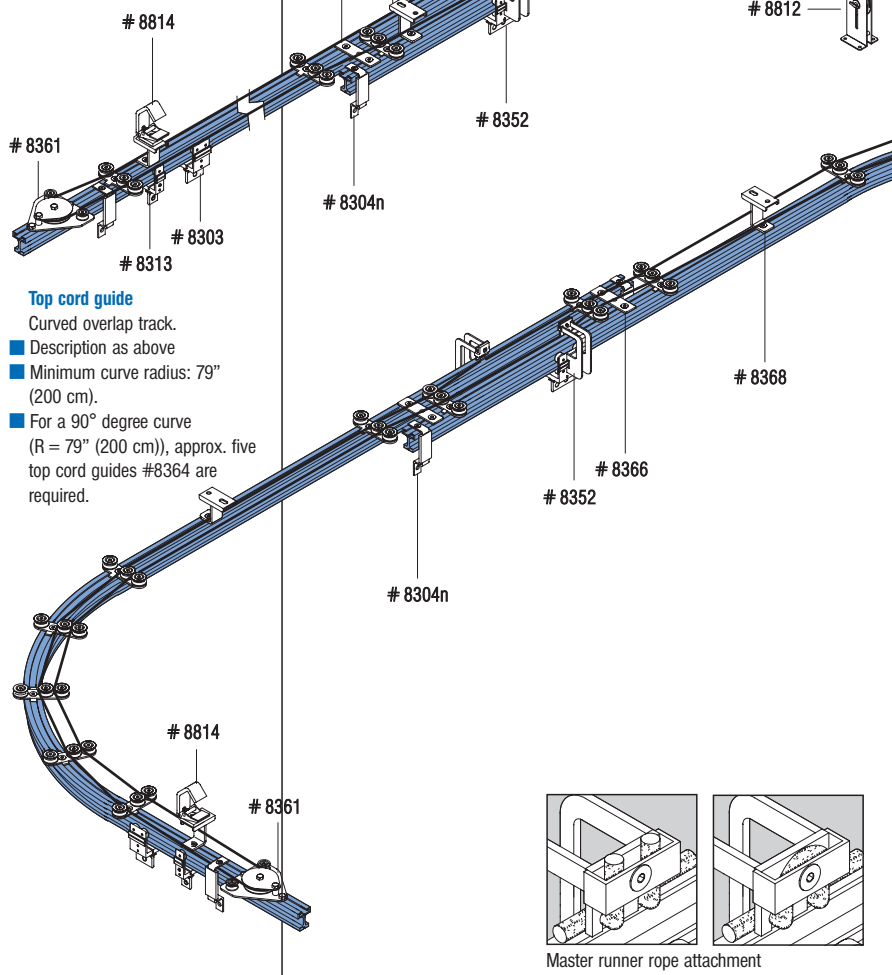
- For each side of curtain, multiply:  
number of runners  
x length of each runner  
+ length of master runner  
+ length of head or return pulley  
at appropriate side.

## TOP CORD GUIDE AND SIDE CORD GUIDE SYSTEMS

### Top cord guide

Straight, center overlap track.

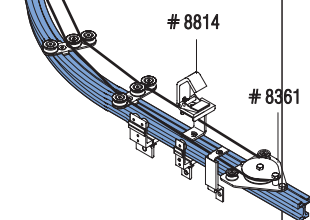
- For bi-parting (traveller style curtain systems).
- Center overlap keeps track properly supported and aligned at overlap.
- Suggested overlap: 19"-39" (0.5-1.0 m).
- Top cord suspension bracket #8368.



### Top cord guide

Curved overlap track.

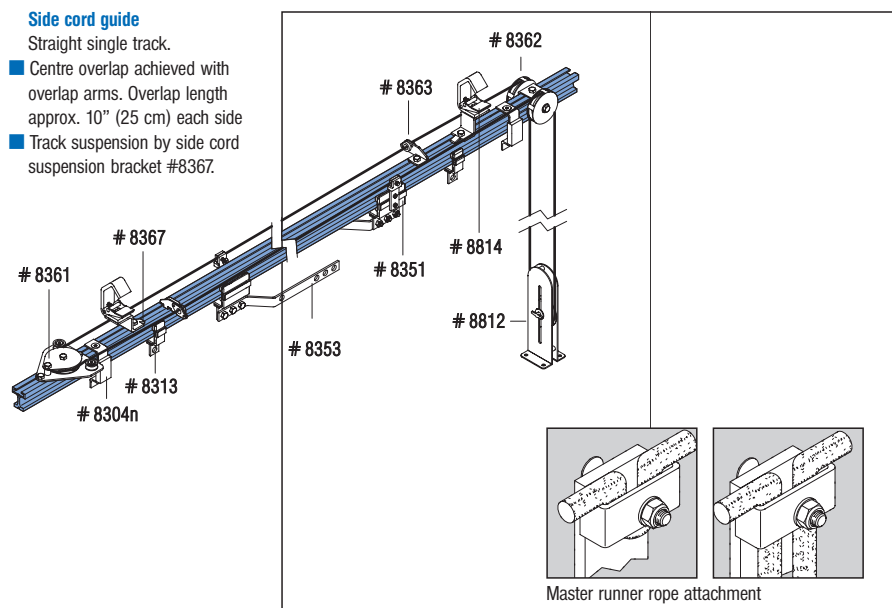
- Description as above
- Minimum curve radius: 79" (200 cm).
- For a 90° degree curve (R = 79" (200 cm)), approx. five top cord guides #8364 are required.



### Side cord guide

Straight single track.

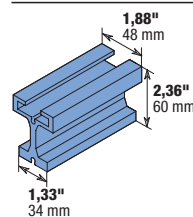
- Centre overlap achieved with overlap arms. Overlap length approx. 10" (25 cm) each side
- Track suspension by side cord suspension bracket #8367.



Master runner rope attachment

## TRACK ACCESSORIES

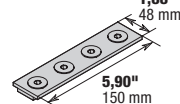
### Track



- Extruded aluminium track made of AlMgSi0,5F22.
- Maximum length: 19'8" (6 m). Cut lengths available.
- Top groove of track designed for suspension bracket, joint set and cord guide attachments.
- Precise track alignment via joint pins.
- Color: black anodized.
- Weight: Approx. 1.7 lbs./ft. (2,520 g/m).

### # 8350

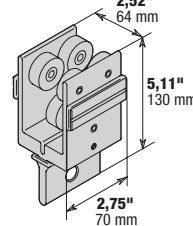
### Track splice



- For joining two track-sections together.
- Consists of joint set, counter-sunk screws and (2) joint pins.
- Weight: 1.3 lbs. (590 g).

### # 8355

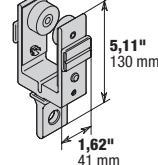
### 4-wheeled-runner



- For use with heavier curtains or curved tracks.
- (4) top load ball bearing wheels and (2) bottom stabilizing ball bearing wheels.
- (3) Rubber bumpers to minimize stacking noise.
- Weight: 14.5 oz. (410 g).
- Load capacity: 66 lbs. (30 kg).

### # 8303

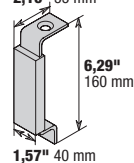
### 2-wheeled-runner



- (2) load bearing top wheels.
- Weight: 7 oz. (200 g).
- Load capacity: 44 lbs. (20 kg).

### # 8313

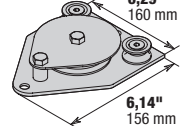
### End stop



- Used on the ends of each track section to anchor the trailing edge of the curtain.
- Weight: 8 oz. (220 g).

### # 8304 n

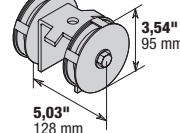
### Return pulley



- Used on all rope systems at the opposite end of the track to return the operating cord to the head pulley.
- For use with rope up to 3/8" (8 mm) thick.
- Ball bearing operation.
- Pulley diameter: 2.75" (70 mm).
- Weight: 2.6 lbs. (1,155 g).

### # 8361

### Head pulley



- Used on all rope systems to divert operating cord to floor pulley or Track-Drive motor.
- For use with rope up to 3/8" (8 mm) thick.
- Ball bearing operation.
- Pulley diameter: 2.75" (70 mm).
- Weight: 2.3 lbs. (1,045 g).

### # 8362

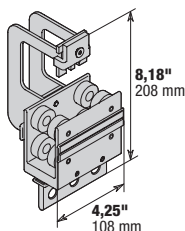
### Polyester rope



- 3/8" (8 mm) thick.
- Color: black.
- Break Point: approx. 1163 daN.

### # 8827

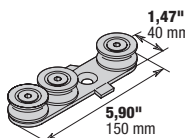
## TOP CORD GUIDE SYSTEM



### Top cord master runner

- Used on leading edge of curtain.
- (4) top load ball bearing wheels,
- (4) bottom stabilizing wheels.
- (3) Rubber bumpers to minimize stacking noise.
- With top rope arm attachment.
- Weight: 2.6 lbs. (1.165g).
- Load capacity: 66 lbs (30 kg).

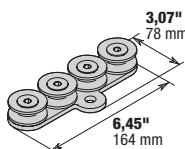
# 8352



### Top cord guide

- For use on top cording systems.
- Bolts to the top of the track and guides the operating cord above track system.
- Steel plate with (3) pulley cord guides.
- Pulley diameter: 0.98" (25 mm).
- Must be used on curved track systems.
- Mounting distance on curved track: approx. 19.5" (500 mm) depending on curve radius.
- For cord guide on straight track: mounting distance 6.5'-10' (2 - 3 m).
- Weight: 14 oz. (385 g).

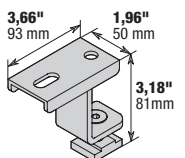
# 8364



### Top cord alignment guide

- For use on top cording systems.
- Mounts in front of the head pulley (#8362) to align the operating cord with the cord guides.
- Weight: 1.3 lbs. (600 g).

# 8365

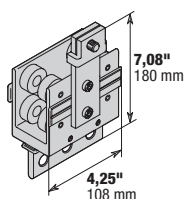


### Top cord suspension bracket

- Suspension for tracks with top cord guide.
- Also used as a spacer for arm clearance on master runner.
- The top holes also work as an offset plate on tracks that overlap and are suspended from a single pipe.
- Weight: 1.1 lbs. (470 g).

# 8368

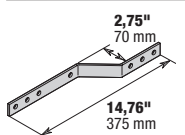
## SIDE CORD GUIDE SYSTEMS



### Side cord master runner

- Used on the leading edge of the curtain.
- (4) top load ball bearing wheels,
- (4) bottom stabilizing wheels.
- (3) Rubber bumpers to minimize stacking noise.
- With side cord arm attachment.
- Weight: 1.8 lbs. (835 g)
- Load Capacity: 66 lbs. (30 kg).

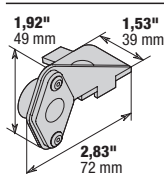
# 8351



### Overlap arm

- Attaches to a master runner to form an overlap on a single track.
- Two 25 mm M10 screws are included.
- Weight: 12.5 oz. (350 g).

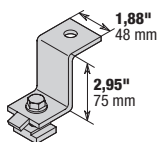
# 8353



### Side cord guide

- Cord guide on the return side of the operating cord to take up slack in the line.
- Not for use on curved systems.
- Suggested spacing: 6.5' (2 m).
- For use on rope up to 0.31" (8 mm) thick.
- Weight: 2.5 oz. (70 g).

# 8363

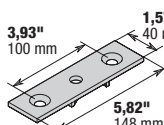


### Side cord suspension bracket

- Used as a spacer for tracks with side cord guide.
- Weight: 1 lb. (450 g).

# 8367

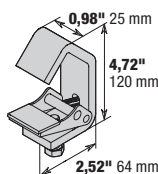
## ADDITIONAL ACCESSORIES



### Center overlap bracket

- Keeps track properly supported and aligned at overlap.
- Weight: 9 oz. (260 g)

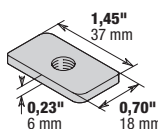
# 8366



### Hook clamp

- Used for attaching the track to pipe/truss, diameter (1.88"-2.36" (48 - 60 mm).
- Load capacity: 220 lbs (100 kg).
- Weight: 1.3 lbs. (590 g).

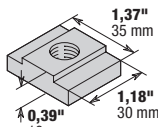
# 8814



### Camlock Nut

- For mounting all accessories.
- Can be positioned at any place in the top groove of the track.
- With M10 tap hole.
- Weight: 0.5 oz. (15 g).

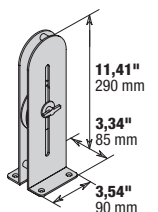
# 8369



### Accessory Nut

- Required for suspension mounting only.
- Includes M10 tap hole.
- Weight: 2.5 oz. (70 g).

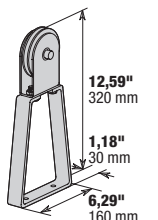
# 8369 a



### Adjustable floor pulley

- The operating cord is tensioned by adjustable pulley.
- Holes with 3/8" (10 mm) diameter for screwing onto the floor.
- For use with operating cord 3/8" (8 mm) thick.
- Weight: 3.1 lbs. (1,400 g).

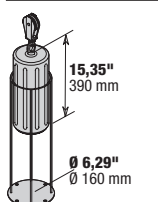
# 8812



### Floor pulley

- With foot stirrup and 3/8" (10 mm) diameter holes for screwing on the floor.
- Tensioned by foot pressure for movable tracks.
- For use with operating cord 3/8" (8 mm) thick.
- Weight: 2.64 lbs (1,200 g).

# 8811



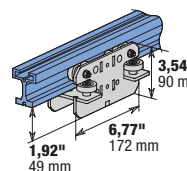
### Self tensioning floor pulley

- Pulley tension maintained via internal sand container.
- Can be screwed to the floor.
- Weight: 27.37 lbs (12,440 g).

# 8610

## HEAVY DUTY CARRIERS & ACCESSORIES

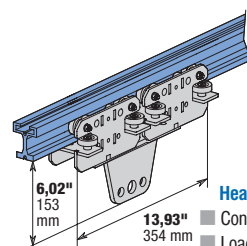
- Smooth, quiet operation with maximum load capacity.
- Stabilizing side wheels to prevent rocking of carrier.
- Pivoting bearing with Ø 3/8" (10 mm) mounting hole.
- Integral safety tabs in case of wheel failure, carrier cannot fall from track.
- Available in 1, 2, or 4 heavy duty carrier configurations.
- Available in top or side cord guide layouts.



### Heavy duty carrier

- Load capacity: 176 lbs. (80 kg).
- Weight: 4.4 lbs. (2,015 g).

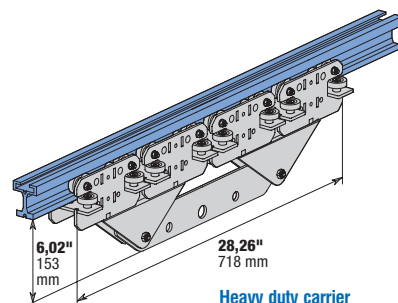
# 8311 a



### Heavy duty carrier

- Consists of 2 carriers.
- Load capacity: 330 lbs. (150 kg)
- Weight: 11.6 lbs (5,265 g).

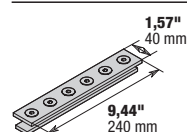
# 8311 b



### Heavy duty carrier

- Consists of 4 carriers.
- Load capacity: 572 lbs (260 kg).
- Weight: 27.7 lbs (12,610 g).

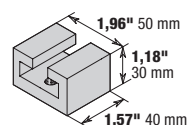
# 8311 d



### Heavy duty track splice

- Weight: 1.8 lbs. (835 g).

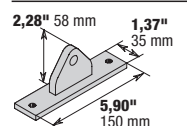
# 8355 s



### HD End stop

- Weight: 4 oz. (105 g).

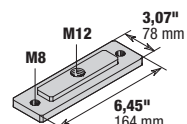
# 8304 s



### HD Suspension bracket

- For use on heavy duty suspension applications.
- Weight: 16 oz. (460 g).

# 8310 s

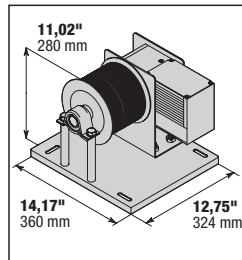
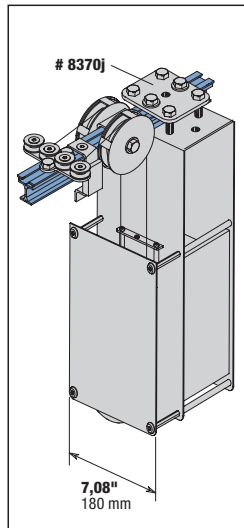
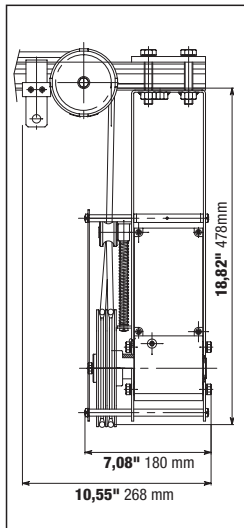


### HD Nut plate

- Needed for mounting all accessories.
- Weight: 10 oz. (285 g).

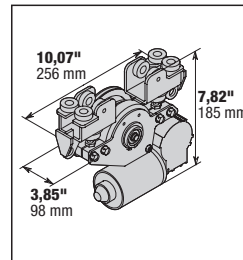
# 8369 s





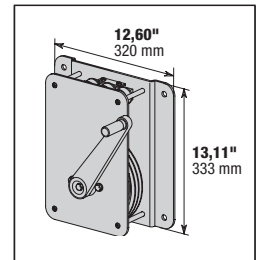
## Drum motor

- For use on all track systems.
- Three models available.
- Please specify mounting position (ie: floor, grid or wall). Wall mount requires # 8750 bracket.
- Optional speeds and control by request.



## FRICTION-DRIVE

- Low voltage operation: 24 V DC.
- Silent operation via rubber drive wheel rolling directly on under side of track.
- Movement on complicated track systems are possible.
- Endless loops are possible on circular tracks via use of track mounted conductor rails.
- Power and control via festoon cable or track mounted conductor rails.



## HAND-DRIVE

- Manual hand operation with low resistance.
- For use on all track systems.
- For use with polyester rope or aircraft cable between 0,12 inches and 0,31 inches (3 and 8 mm) diameter.
- Cable is tensioned automatically.
- Weight: 21 lbs. (9.500g).

## TRAC-DRIVE

- Track mounted design.
- Motor mounts at end of track.
- Direct drive system - no floor pulley needed.
- Drive wheel contains double V-groove pulleys to ensure maximum rope friction.
- Can be retrofit to any of our JOKER 95 track systems.
- Dimensions: 18.5" x 7" x 7" (47 x 18 x 18 cm).
- Requires mounting plate (part # 8370 i).

## Technical Data

|                  | TRAC-DRIVE                       |             |             | Drum motor                       |             |             | FRICTION-DRIVE                   |             |
|------------------|----------------------------------|-------------|-------------|----------------------------------|-------------|-------------|----------------------------------|-------------|
|                  | # 8760c                          | # 8760b     | # 8760a     | # 8710c                          | # 8710b     | # 8710a     | # 8720                           | # 8721      |
| Power            | 0,4 kW                           |             |             | 0,4 kW                           |             |             | 200 W                            |             |
| Duty cycle       | 40 %                             |             |             | 40 %                             |             |             | 100 %                            |             |
| Supply voltage   | 3 x 230 / 400 V AC               |             |             | 3 x 230 / 400 V AC               |             |             | 24 V DC                          |             |
| Motor speed      | 2.750 U/min                      |             |             | 2.750 U/min                      |             |             | 3.000 U/min                      |             |
| Curtain speed    | ~ 47"/sec                        | ~ 24"/sec   | ~ 12"/sec   | ~ 32"/sec                        | ~ 24"/sec   | ~ 12 In/s   | ~ 4"/sec                         | ~ 10"/sec   |
|                  | (~ 120 cm/s)                     | (~ 60 cm/s) | (~ 30 cm/s) | (~ 80 cm/s)                      | (~ 60 cm/s) | (~ 30 cm/s) | (~ 10 cm/s)                      | (~ 25 cm/s) |
| Tractive force   | 200 N                            |             |             | 375 N                            | 480 N       | 580 N       | ~ 350 N                          | ~ 150 N     |
| Drive            | Traction sheave: Ø 6.3" (160 mm) |             |             | Traction sheave: Ø 6.3" (160 mm) |             |             | Driving wheel: Ø 3.5" (90 mm)    |             |
| Output speed     | 137 U/min                        | 68 U/min    | 37 U/min    | 95 U/min                         | 68 U/min    | 37 U/min    | -                                |             |
| Driving distance | approx. 98' (30 m)               |             |             | 36' (11 m)                       |             |             | endless                          |             |
| Rope diameter    | 3/8" (8 mm), polyester rope      |             |             | 3/16" (3 mm), steel rope         |             |             | -                                |             |
| Thermal fuse     | yes                              |             |             | yes                              |             |             | no                               |             |
| Weight           | 34 lbs.                          |             |             | 66 lbs.                          |             |             | 22 lbs                           |             |
|                  | (15,5 kg)                        |             |             | (30,0 kg)                        |             |             | (10,0 kg)                        |             |
| Control unit     | Fixed or variable speed.         |             |             | Fixed or variable speed.         |             |             | Fixed or variable speed.         |             |
|                  | Intermediate positions possible. |             |             | Intermediate positions possible. |             |             | Intermediate positions possible. |             |
|                  | DMX control possible.            |             |             | DMX control possible.            |             |             | DMX control possible.            |             |

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