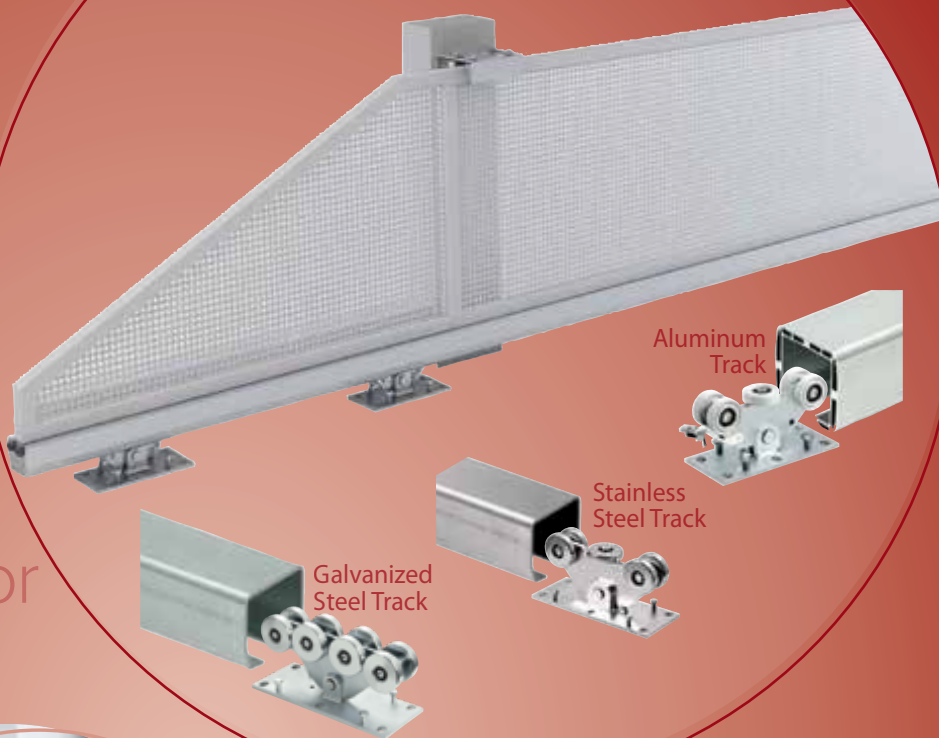


# SLIDING GATE SYSTEMS

**DURAGATES**<sup>®</sup>  
CANTILEVER GATES, EVOLVED



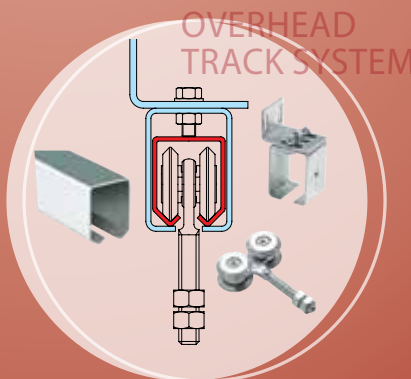
Integrator



Ranger



GROUND TRACK  
ROLLING GATE  
SYSTEM



OVERHEAD  
TRACK SYSTEM

- 414-417** DuraGates Cantilever Gate Hardware
- 418** DuraGates Typical Gates
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- 422-423** Cantilever Sliding Gate Projects
- 424-429** The Integrator-Internal Gear-Rack Drive System
- 430-435** V-Groove Rolling Gate System
- 436** Gate Rollers
- 437** Overhead Track System
- 438-446** Ranger-Telescoping Gate System

T: 908.757.2323  
F: 908.757.3439

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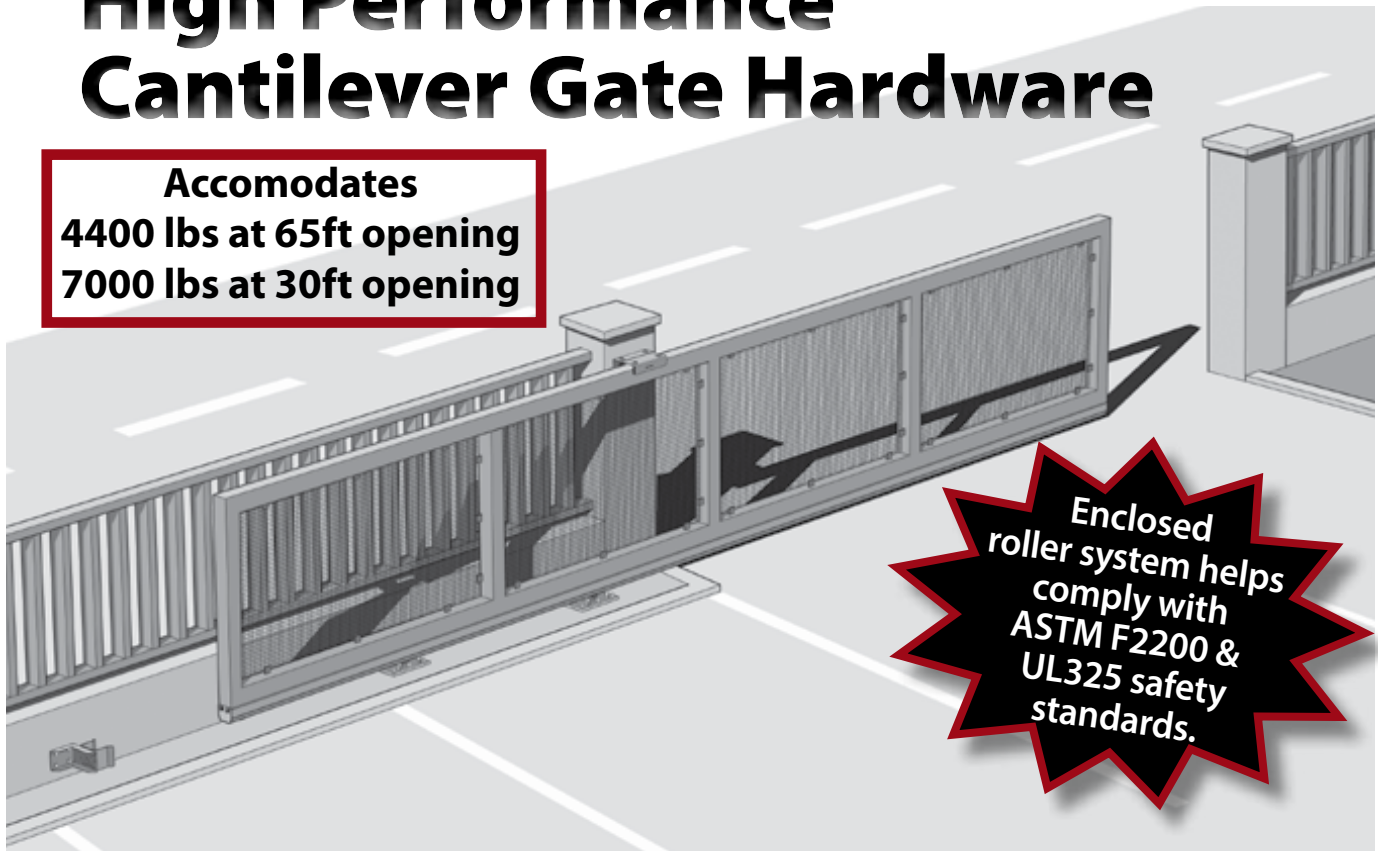
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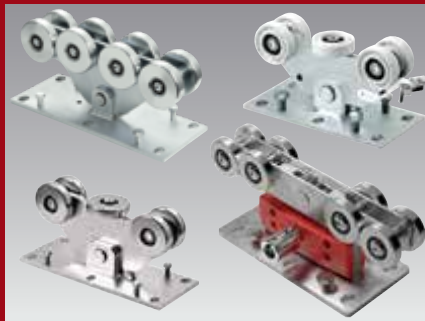


## High Performance Cantilever Gate Hardware

Accommodates  
4400 lbs at 65ft opening  
7000 lbs at 30ft opening



Enclosed  
roller system helps  
comply with  
ASTM F2200 &  
UL325 safety  
standards.



Manufactured by

**COMUNELLO**  
LIFE MADE EASY



Scan code  
to watch  
video

The **COMUNELLO** Cantilever gate hardware offers a professional solution that satisfies your requirements for installing a cantilever gate, even with complicated applications or large dimensions. It is the perfect choice, with its complete line of accessories and a product configurator to calculate the correct dimensions for the gate. The bottom track covered carriages avoids many of the maintenance problems with traditional sliding gates. Moreover, the hardware can be used on any gate material.

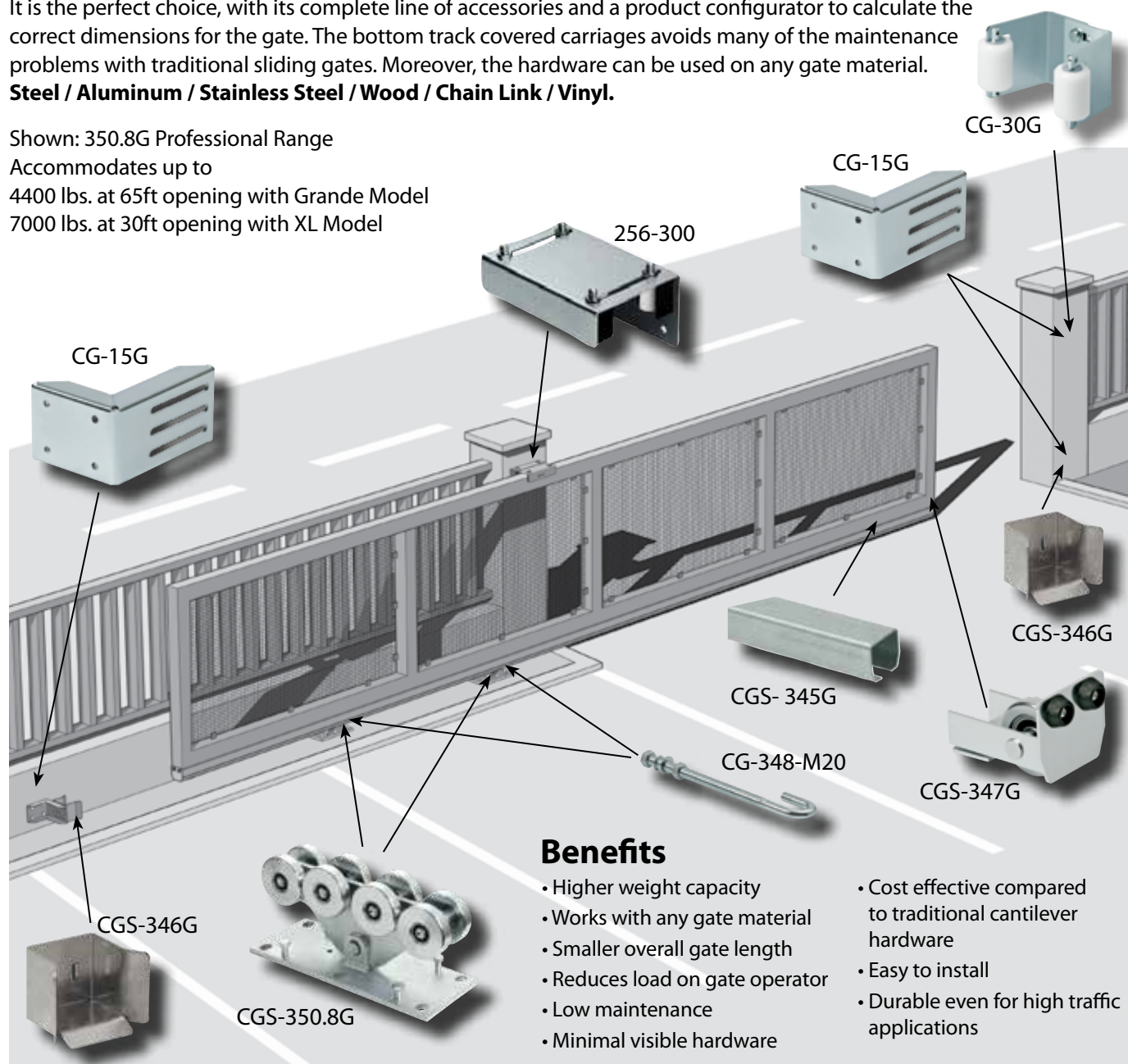
**Steel / Aluminum / Stainless Steel / Wood / Chain Link / Vinyl.**

Shown: 350.8G Professional Range

Accommodates up to

4400 lbs. at 65ft opening with Grande Model

7000 lbs. at 30ft opening with XL Model



## Benefits

- Higher weight capacity
- Works with any gate material
- Smaller overall gate length
- Reduces load on gate operator
- Low maintenance
- Minimal visible hardware
- Cost effective compared to traditional cantilever hardware
- Easy to install
- Durable even for high traffic applications

**NOTE: WE ONLY SUPPLY THE HARDWARE, NOT THE GATE ITSELF**

Call us at :

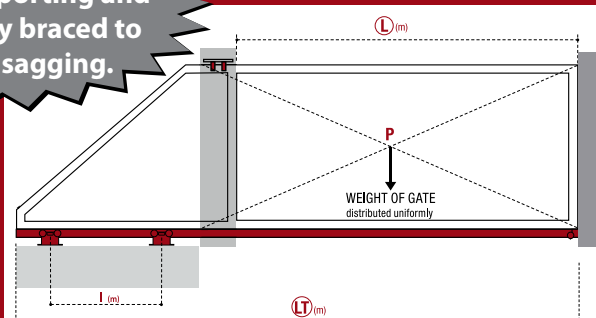
**800-784-7444**

for **FREE** assistance in configuring the specifications for your cantilever gate project.










**Based on the gate dimensions, we can supply you with:**

- Length of counter balance
- Load calculations
- Bill of materials
- Installation instructions

The gate itself must be self supporting and adequately braced to prevent sagging.

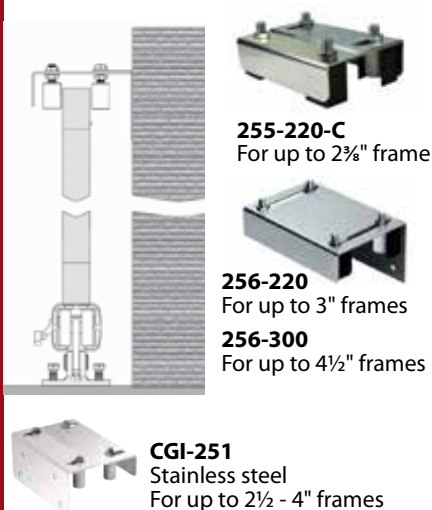




| GALVANIZED STEEL TRACK  |  |   |  |   |  |  |
|---|--|---|--|---|--|--|
| Model   | CGS - 350.5XL  | CGS - 350.8G                                      | CGS - 350.8P                                     | CGS - 250.8P                                    | CGS - 250.8M                                     | CGS - KIT150   |
| Opening & Weight Range  | 30 ft. up to 7700 lbs.<br>65 ft. up to 4400 lbs.                                   | 16 ft. up to 4000 lbs.<br>60 ft. up to 1800 lbs.  | 10 ft. up to 1700 lbs.<br>26 ft. up to 1000 lbs. | 8 ft. up to 1300 lbs.<br>19 ft. up to 800 lbs.  | 8 ft. up to 900 lbs.<br>14 ft. up to 500 lbs.    | 8 ft. up to 660 lbs.<br>13 ft. up to 330 lbs.  |
| Carriages   |  |   |  |   |  | <b>Included in Kit:</b><br><br>2x CGS-150.5M Mini Carriage Multiplate Body<br><br>Choice of<br>CGS-245M Small Galvanized Track:<br>1x 19'8"<br>3x 6'6"<br><br>1x CGS-347M End wheel<br><br>1x CGS-346M Bottom end cup<br><br>1x 255-220-C Top Guide with roller covers<br><br> |
|        | CGS-350.5XL<br>Extra Large Carriage Monobloc Body                                  | CGS-350.8G<br>Grande Carriage Monobloc Body       | CGS-350.8P<br>Large Carriage Monobloc Body       | CGS-250.8P<br>Large Carriage Multiplate Body    | CGS-250.8M<br>Small Carriage Multiplate Body     |  |
| Tracks available in 9'10" or 19'8" lengths  |  |   |  |   |  |  |
|        | CGS-345XL<br>Extra Large 7¼" W x 6½" H<br><b>Raw Track</b><br>Available 9'10" only | CGS-345G<br>Grande Galvanized Track 5½" W x 5½" H | CGS-345P<br>Large Galvanized Track 4" W x 3½" H  | CGS-245P<br>Large Galvanized Track 4" W x 3½" H | CGS-245M<br>Small Galvanized Track 2¾" W x 2¾" H |  |
| Accessories   |  |   |  |   |  |  |
| 2x     | CGS-347XL<br>End Wheel for UL325 Compliance  | CGS-347G<br>End Wheel for UL325 Compliance        | CGS-347P<br>End Wheel for UL325 Compliance       | CGS-347P<br>End Wheel for UL325 Compliance      | CGS-347M<br>End Wheel for UL325 Compliance       |  |
| 1x     | CGS-346XL<br>Bottom End Cup  | CGS-346G<br>Bottom End Cup                        | CGS-346P<br>Bottom End Cup                       | CGS-346P<br>Bottom End Cup                      | CGS-346M<br>Bottom End Cup                       |  |
| 1x     | CG-30P<br>Gate Receiver 3-3/8" to 4-1/2"   | CG-30M<br>Gate Receiver 2" to 3"                  | CG-30M<br>Gate Receiver 2" to 3"                 | CG-30M<br>Gate Receiver 2" to 3"                | CG-30M<br>Gate Receiver 2" to 3"                 |  |
| 2x    | CG-15G<br>Adjustable Mounting Bracket  | CG-15G<br>Adjustable Mounting Bracket             | CG-15P<br>Adjustable Mounting Bracket            | CG-15P<br>Adjustable Mounting Bracket           | CG-15M<br>Adjustable Mounting Bracket            |  |
| Anchoring and Installation Accessories  |  |   |  |   |  |  |
| 12x  | CG-348-M20<br>J-Bolt, Galvanized M20 x 15"   | CG-348-M20<br>J-Bolt, Galvanized M20 x 15"        | CG-348-M16<br>J-Bolt, Galvanized M16 x 15"       | CG-348-M16<br>J-Bolt, Galvanized M16 x 15"      | CG-348-M16<br>J-Bolt, Galvanized M16 x 15" 8x    |  |
| 2x   | CG-05G<br>Foundation Plate   | CG-05G<br>Foundation Plate                        | CG-05P<br>Foundation Plate                       | CG-05P<br>Foundation Plate                      | CG-05P<br>Foundation Plate                       |  |

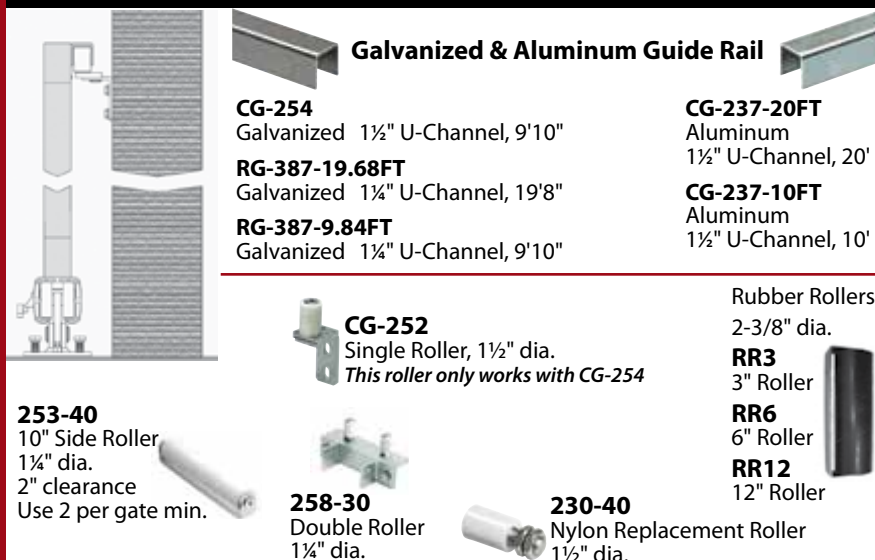
## TOP GUIDE OPTIONS


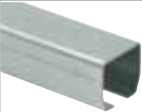






Adjustable Guiding Plate with roller covers to avoid pinch points.











## SIDE MOUNT GUIDE OPTIONS

USE FOR GATES WITH AN ARCHED TOP OR PROTRUDING PICKETS



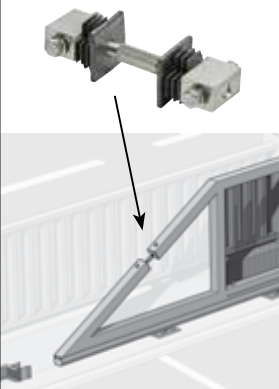
| STAINLESS TRACK  |   |
|--|---|
| <b>Model</b>   | CGI-350.5P  |
| <b>Opening &amp; Weight Range</b>  | 13 ft. up to 700 lbs.<br>26 ft. up to 400 lbs.          |
| <b>Carriages</b>   |   |
|               | CGI-350.5P<br>Large Carriage<br>Monobloc Body           |
| <b>Tracks available in 9'10" or 19'8" lengths</b>  |   |
|               | CGI-345P<br>Large Stainless Steel Track<br>4" W x 3½" H |
| <b>Accessories</b>   |   |
| <b>2x</b>     | CGI-347P<br>End Wheel<br>for UL325 Compliance           |
| <b>1x</b>     | CGI-346P<br>Bottom End Cup                              |
| <b>1x</b>     | CG-30M<br>Gate Receiver<br>2" to 3"                     |
| <b>2x</b>    | CG-15P<br>Adjustable Mounting Bracket                   |
| <b>Anchoring and Installation Accessories</b>  |   |
| <b>12x</b>  | CGI-348-M16<br>J-Bolt, Stainless Steel<br>M16 x 15"     |
| <b>2x</b>   | CGI-05P<br>Foundation Plate                             |

| ALUMINUM TRACK  |   |   |
|---|---|---|
| <b>Model</b>  | CGA - 350.5P  | CGA - 350.5M  |
| <b>Opening &amp; Weight Range</b>   | 20 ft. up to 700 lbs.<br>30 ft. up to 400 lbs.                | 10 ft. up to 550 lbs.<br>16 ft. up to 300 lbs.                |
| <b>Carriages with Nylon Wheels</b>  |   |   |
|               | CGA-350.5P<br>Large Carriage<br>Monobloc Body<br>Nylon Wheels | CGA-350.5M<br>Small Carriage<br>Monobloc Body<br>Nylon Wheels |
| <b>Tracks available in 9'10" or 19'8" lengths</b>   |   |   |
|               | CGA-345P<br>Large<br>Aluminum Track<br>4 ¾" W x 4 ½" H        | CGA-345M<br>Small<br>Aluminum Track<br>3 ¾" W x 3 ½" H        |
| <b>Accessories</b>  |   |   |
| <b>2x</b>      | CGA-347P<br>End Wheel<br>for UL325<br>Compliance              | CGA-347M<br>End Wheel<br>for UL325<br>Compliance              |
| <b>1x</b>      | CGS-346P<br>Bottom End Cup                                    | CGA-346M<br>Bottom End Cup                                    |
| <b>1x</b>      | CG-30M<br>Gate Receiver<br>2" to 3"                           | CG-30M<br>Gate Receiver<br>2" to 3"                           |
| <b>2x</b>   | CG-15P<br>Adjustable<br>Mounting Bracket                      | CG-15M<br>Adjustable Mounting<br>Bracket                      |
| <b>Anchoring and Installation Accessories</b>   |   |   |
| <b>12x</b>  | CG-348-M16<br>J-Bolt, Galvanized<br>M16 x 15"                 | CG-348-M16<br>J-Bolt, Galvanized<br>M16 x 15" <b>8x</b>       |
| <b>2x</b>   | CG-05P or CGI-05P<br>Foundation Plate                         | CG-05P or CGI-05P<br>Foundation Plate                         |

## CGI-40

Tension Bar - Stainless Steel  
Fits 50mm metric tubing  
USA 2½" sq. min. (shimmed)  
With turnbuckle action

Use for minor adjustment  
of gate sag



# [duragates.com](http://duragates.com)

- Browse models
- Download
  - CAD drawings
  - Spec sheets
  - Installation Instructions
- Read FAQs
- View the project gallery
- Request a quote

| GALVANIZED STEEL TRACK |                    |        |  |                   |
|------------------------|--------------------|--------|--|-------------------|
| MODEL                  | TYPICAL GATE       |        | INCLUDES   | GATE RANGE        |
| CGS-KIT150             | GATE OPENING:      | 12FT   | 20ft of track, 2 carriages, 1 end cup,           | 8 ft at 660 lbs   |
|                        | WEIGHT OF OPENING: | 300LB  | 1 end wheel, and 1 top guide plate               | 13 ft at 330 lbs  |
|                        | TOTAL GATE LENGTH: | 18FT   |  |                   |
| CGS-250.8M             | GATE OPENING:      | 16FT   | 30ft of track, 2 carriages, 2 end cups,          | 8 ft at 900 lbs   |
|                        | WEIGHT OF OPENING: | 600LB  | 2 end wheels, 1 top guide plate and 8 J-bolts    | 14 ft at 500 lbs  |
|                        | TOTAL GATE LENGTH: | 22FT   |  |                   |
| CGS-250.8P             | GATE OPENING:      | 18FT   | 30ft of track, 2 carriages, 2 foundation plates, | 8 ft at 1300 lbs  |
|                        | WEIGHT OF OPENING: | 800LB  | 2 end cups, 2 end wheels,                        | 19 ft at 800 lbs  |
|                        | TOTAL GATE LENGTH: | 24FT   | 1 top guide plate and 12 J-bolts                 |                   |
| CGS-350.8P             | GATE OPENING:      | 24FT   | 40ft of track, 2 carriages, 2 foundation plates, | 10 ft at 1700 lbs |
|                        | WEIGHT OF OPENING: | 1200LB | 2 end cups, 2 end wheels,                        | 26 ft at 1000 lbs |
|                        | TOTAL GATE LENGTH: | 33FT   | 1 top guide plate and 12 J-bolts                 |                   |
| CGS-350.8G             | GATE OPENING:      | 30FT   | 40ft of track, 2 carriages, 2 foundation plates, | 16 ft at 4000 lbs |
|                        | WEIGHT OF OPENING: | 1800LB | 2 end cups, 2 end wheels,                        | 60 ft at 1800 lbs |
|                        | TOTAL GATE LENGTH: | 39FT   | 1 top guide plate and 12 J-bolts                 |                   |
| CGS-350.5XL            | GATE OPENING:      | 30FT   | 40ft of track, 2 carriages,                      | 30 ft at 7700 lbs |
|                        | WEIGHT OF OPENING: | 3800LB | 1 top guide plate and 12 J-bolts                 | 65 ft at 4400 lbs |
|                        | TOTAL GATE LENGTH: | 40FT   |  |                   |

| ALUMINUM TRACK |                    |       |  |                  |
|----------------|--------------------|-------|--|------------------|
| MODEL          | TYPICAL GATE       |       | INCLUDES   | GATE RANGE       |
| CGA-350.5M     | GATE OPENING:      | 16FT  | 30ft of track, 2 carriages, 2 end cups,          | 10 ft at 550 lbs |
|                | WEIGHT OF OPENING: | 300LB | 2 end wheels, 1 top guide plate and 8 J-bolts    | 16 ft at 300 lbs |
|                | TOTAL GATE LENGTH: | 21FT  |  |                  |
| CGA-350.5P     | GATE OPENING:      | 24FT  | 40ft of track, 2 carriages, 2 foundation plates, | 20 ft at 700 lbs |
|                | WEIGHT OF OPENING: | 600LB | 2 end cups, 2 end wheels,                        | 30 ft at 400 lbs |
|                | TOTAL GATE LENGTH: | 32FT  | 1 top guide plate and 12 J-bolts                 |                  |

| STAINLESS TRACK |                    |       |  |                  |
|-----------------|--------------------|-------|--|------------------|
| MODEL           | TYPICAL GATE       |       | INCLUDES   | GATE RANGE       |
| CGI-350.5P      | GATE OPENING:      | 20FT  | 30ft of track, 2 carriages, 2 foundation plates, | 13 ft at 700 lbs |
|                 | WEIGHT OF OPENING: | 300LB | 2 end cups, 2 end wheels,                        | 26 ft at 400 lbs |
|                 | TOTAL GATE LENGTH: | 26FT  | 1 top guide plate and 12 J-bolts                 |                  |

**CALL 800-784-7444 FOR DETAILED GATE CONFIGURATION  
OR  
VISIT DURAGATES.COM**

Company: \_\_\_\_\_ Contact: \_\_\_\_\_ Phone: \_\_\_\_\_

Email: \_\_\_\_\_ Job Name: \_\_\_\_\_

DuraGates cantilever hardware is an application specific engineered product. Each gate application should be configured based on the opening width of the gate (L) and the weight (P) "over the opening" to determine the total gate length (LT), carriage spacing (I), and the concrete foundation dimensions.

### IS THIS PROJECT?

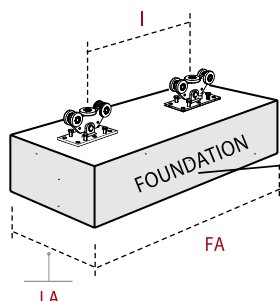
- ☐ A new gate  
☐ Existing Gate / Retrofit

Please provide the following information for an application specific configuration, parts list, and pricing.

|  |  |  |
|--|--|--|
| <b>1 MATERIAL OF THE GATE (OR FRAME)</b><br><input type="checkbox"/> Steel<br><input type="checkbox"/> Aluminum<br><input type="checkbox"/> Chain Link<br><input type="checkbox"/> Stainless Steel   | <b>DURAGATES TRACK MATERIAL REQUIRED</b><br><input type="checkbox"/> Wood<br><input type="checkbox"/> PVC<br><input type="checkbox"/> Galvanized Steel<br><input type="checkbox"/> Aluminum<br><input type="checkbox"/> Stainless Steel                      | <b>GATE FRAME SIZE</b><br><input type="checkbox"/> 1-1/2"<br><input type="checkbox"/> 2"<br><input type="checkbox"/> 2-1/2"<br><input type="checkbox"/> Other<br><input type="checkbox"/> Square<br><input type="checkbox"/> Round |
| <b>2 OPENING WIDTH</b><br>Typically the post to post measurement<br>L = _____ ft. / in.  |  |  |
| <b>3 WEIGHT OF THE GATE "over the opening"</b><br>If the weight is given for the full gate, specify the assumed gate length and label it as full gate weight<br>P = _____ lbs.<br>Full gate weight _____ lbs.<br>Assumed gate length _____ ft. / in. |  |  |
| <b>4 OPTIMIZE FOR MINIMUM TAIL LENGTH OR COST?</b><br>✦ Often two or more models will carry the load, so knowing which is more important for the application guides us to the best result.<br>✦ Space available in "Open" position. _____ ft. / in.  |  |  |
| <b>5 IS GATE FLAT ON TOP?</b><br><input type="checkbox"/> Yes<br><input type="checkbox"/> No _____   | <b>6 GATE LOCK OPTIONS</b><br><i>Manually Operated Gate</i><br><input type="checkbox"/> Key Operated Lock<br><input type="checkbox"/> Mechanical Code Lock<br><i>Automated Gate</i><br><input type="checkbox"/> Mag Lock<br><input type="checkbox"/> NO LOCK | <b>7 GATE AUTOMATION / DRIVE SYSTEM</b><br><input type="checkbox"/> Standard Carriages<br><input type="checkbox"/> Integrator Carriages  |

### FOUNDATION

LENGTH (LA)  
 WIDTH (FA)  
 DEPTH (PA)  
 INTERAXIS (I)

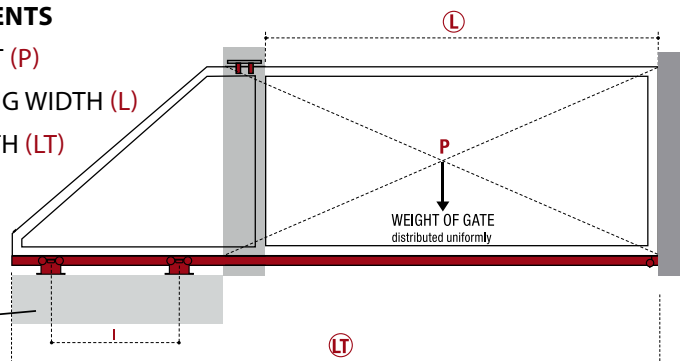


### MEASUREMENTS

GATE WEIGHT (P)

GATE OPENING WIDTH (L)

TOTAL LENGTH (LT)





## Frequently Asked Questions

### Q: Where do I start?

A: The first step is to think about what kind of gate design and gate material you want. The advantage of using our hardware is that you can use practically any gate design with any gate material. Then, let us know the size of the opening and the approximate weight of just the opening part of the gate. We will then come back to you with the suggested model, overall length of gate including counterbalance and size of the foundation required. Armed with that information you can then complete your gate design.

### Q: I have seen most cantilever track with a top track system. What are the advantages of the Duragates system over the top track system?

A: There are several advantages actually.

- First of all, the weight of the gate is transferred to the ground, hence it can bear a lot more load than a top track. Besides there are less chances of the track bending/buckling
- You can use any gate material versus mainly steel/aluminum for the top track system
- You can design any gate shape versus only a straight gate for the top track
- Performs better in the snow
- Looks much better versus the industrial look of the top track system
- Our system needs a smaller counterbalance versus the top track thus reducing the overall gate length
- You don't need an elaborate system of posts to mount the gate to. Posts tend to shift over time causing problems in the future. Our system only needs a top guide plate that can be installed even on masonry columns

### Q: Can I use any gate material?

A: Yes, you can use practically any gate material as long as you can mechanically attach the gate to the bottom track. In case of a steel or aluminum gate you can just weld the gate to the track, or even use the track itself as the bottom frame of the gate.

### Q: The system looks very simple. What am I missing?

A: You are not missing anything ! The system is actually very simple. Just a track, 2 wheels and some related accessories. Not just that, it is also very aesthetically appealing with minimal visible hardware.

### Q: I live in very heavy snow conditions. How does it perform in these conditions?

A: The product actually works better in the snow than most traditional sliding gate hardware systems.

- The wheels are always covered with the track, hence you never have to clean the wheels.
- There are no exposed rollers unlike some other cantilever systems
- The path of the gate travel has to be cleared of snow, which would have to be done for any gate
- You may have to adjust the foundation depth based on the frost line in your local area

### Q: I don't know the weight of my gate. Where do I go from here?

A: We urge you to at least roughly estimate the weight of the gate based on the materials and design used. It is an important starting point in order for us to help you configure the overall gate dimensions.

### Q: My gate is very small. Can I use your system?

A: Absolutely. Our system can be used for openings as small as 2 to 3 ft in residential and even indoor applications. You don't need to pour a foundation for small gates/doors such as these. See our project gallery for examples.

### Q: Which gate operator can I use?

A: Our system is totally independent of the gate operator. You can use a gate operator of your choice. In fact the face of the bottom track provides a nice surface to mount the gear rack to (for rack/pinion type operators). The track slides very smoothly on the carriages thereby reducing the load on the operator.

### Q: What kind of maintenance does it require?

A: None really. The carriages have sealed bearings. Depending on usage, the bearings may wear out eventually and it is then advisable to replace the entire carriage. If you ever want to service the gate, simply remove the end caps and slide the gate off the track.

### Q: How much effort will I need to operate the gate?

A: The track slides very smoothly on the carriages and you can operate the gate with just one hand. Of course, depending on the weight of the gate and the application you may want to install a gate operator. Due to the smooth operation, the load on the operator is also reduced.

### Q: Can the gate travel at an incline?

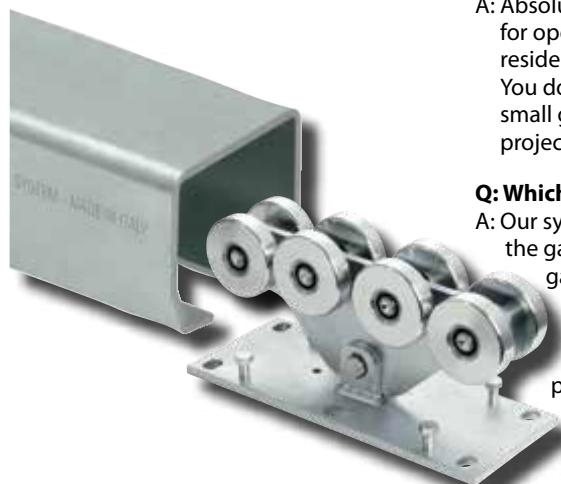
A: Unfortunately that is one application where the gate won't work. The carriages have to be installed horizontally and in one line. However, since it is cantilevered off the ground, the ground itself can be at an incline. You just have to install the gate high enough to clear the highest point on the ground.

### Q: Can I install the carriages on a post instead of on the ground?

A: We highly discourage installing the carriages on the post as it will not be able to bear a high load and will also cause problems once the post starts to shift. In fact the system is designed to avoid all the problems associated with mounting the carriages to a post. We realize that there is an added cost involved in making a foundation. However, for light duty applications, many of our customers have been able to post mount the carriages or not pour a foundation. Once you understand how the system works, please use your judgment to determine what could work in your application.

### Q: I have an arch top on my gate. What do I use for the top guide?

A: For arched and other gate shapes we recommend using the monorail CG-254 and the roller CG-252. This galvanized steel monorail can be installed horizontally somewhere along the full length of the gate and will provide adequate support.

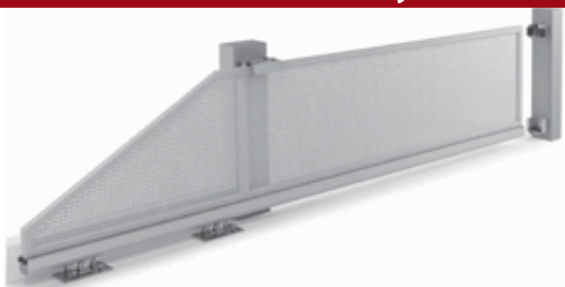


**[duragates.com](http://duragates.com)**



# WHY CHOOSE OVER OTHER SLIDING/ROLLING GATE SYSTEMS?

## DuraGates enclosed roller system



### Benefits of using DuraGates Hardware!

- **Higher Weight Capacity**

With the weight of the gate transferred to the ground, gate openings up to 59 feet with a weight of 4000 pounds can be accommodated.

- **Enclosed Track**

Enclosed track system helps comply with ASTM F2200 & UL325 safety standards. This system is perfect for snowy, icy, rainy.... basically any environment as the rollers are enclosed inside the track and are not affected by precipitation thus eliminating the need for constant cleaning and maintenance.

- **Use with any Gate Material**

The gate can be either welded or mechanically attached to the bottom track.

- **Smaller Overall Gate Length**

The counterbalance is less than traditional cantilever hardware which works especially well when space is restricted.

- **Easy Installation**

Once the 2 carriages are mounted on the concrete pad, simply slide the gate on the carriages and add the end wheels.

- **Durability**

High quality rollers and track result in years of troublefree operation.

- **Reduced Load on Gate Motor**

The gate will roll smoothly and can even be operated with one hand. This reduces the load on the gate motor resulting in a longer life and reduced maintenance on the motor.

- **Low Maintenance**

Enclosed, sealed bearing equipped roller construction, no lubrication required! The sealed bearings really stand up to dusty environments where grit would eat up non-sealed bearing designs.

- **Minimal Visible Hardware**

Since no unsightly wires or overhead track are needed with DuraGates, our hardware makes for a more aesthetically pleasing gate system. It can also be adapted for a gate with an arched top.

- **Unobstructed Driveway**

No track on the ground to trip over. The driveway can be uneven and sloping since the gate is off the ground.

## V-track systems

### Pros:

- Nice slide action if there is nothing in the way of the rollers like a garden hose, rock, or other obstruction.



### Cons:

- Needs digging of trench along length of driveway for proper installation.
- Ground track can be obstructed by objects laying over it.
- Rollers can possibly be derailed.
- In freezing weather, snow and ice can obstruct the track, and when the gate is open, the track would potentially be in the way of snow plowing.
- In freezing weather the rollers can freeze up, compromising the smooth slide action of the gate.

## Overhead track systems

### Pros:

- Sometimes a closed roller system, meaning the rollers are sheltered from the elements within the track, this way snow and ice doesn't impede the rolling action of the gate.



### Cons:

- Bearings used in these systems are not commonly a sealed bearing, so maintenance is required, grease must be used to keep the bearings within the trucks rolling smoothly. This type of lubrication accumulates grit, especially in dusty environments and requires a cleaning of the track and roller surfaces to maintain a smooth gate action.
- Overhead systems usually do not work with gates that are meant to be ornamental or even just aesthetic, the track looks quite industrial from the outside if it is not hidden by the gate.
- It is not possible to do an arched top gate.
- Gate is constantly pulling down on the track resulting in limited weight capacity.

## Chainlink exposed-roller systems

### Pros:

- Economical: Because this type of system uses the bottom pipe of the chainlink gate as a track, there is no track to purchase. This means that all you have to buy are rollers to support and guide the gate.



### Cons:

- These gates have practically no aesthetic appeal, this is why they are commonly used in industrial applications.
- Due to using the chainlink panel frames as the channel for the rollers, the gate itself can get quite dirty from lubrication of the rollers getting onto the gate frame.
- These gates can have the least smooth action.
- The rollers are exposed and need constant cleaning.
- Needs at least 50% counter balance
- As the gate posts may eventually shift, the rollers may need constant adjustment.



This residence is on a busy street and did not have the space for a swing gate. The homeowner needed an ornamental sliding gate with a decorative top to blend in with an existing fence.

The solution, DuraGates. By using the monorail track, CG-254, and the nylon roller, CG-252, the gate was fabricated with the matching spear points of the fence.



This large entrance required sturdy gates with minimal visible hardware. This client decided to use DuraGates Aluminum Track Model, CGA-350.5P. The gate cantilevers over the driveway instead of having V-Groove track mounted on the ground in the entrance. When the gates are both open, they tuck nicely behind the two brick walls. By choosing the aluminum model, there is no chance of rust or corrosion, making these gates a low maintenance addition to the property.

Both gates have been installed with a Deimos gate operator by BFT and are controlled via remote control.



To deter unauthorized parking, property management required an automated sliding gate so that only their tenants would have access to the apartment parking lot.

To achieve this, DuraGates cantilever hardware was installed as a ground track system would not be possible due to the uneven ground at the entry point. DuraGates also complies with the required ASTM F2200 & UL325 safety standards.



Scan the QR code to view more DuraGates projects.



Due to the hardware's versatility, this gate was fabricated to match the deck rails on a porch in order to keep the owner's dogs from venturing out into the yard. The CGS-250.8M galvanized steel track model was used. Due to the small size of the carriages and minimal hardware used to create the gate, it is quite aesthetically pleasing. To a passerby, this front porch would look to be enclosed, since the gate hardware is mostly hidden.



This client chose Integrator model CGS-500.8M for his sliding gate. The Integrator is a new galvanized steel cantilever system with an internal gear-rack drive system. This means the gear rack is installed inside of the DuraGates bottom track hiding it from view. From the outside of the property there is no visible gate hardware. The gate blends seamlessly into the surrounding fence.

**THE EVOLUTION CONTINUES**

# The Integrator

The all new galvanized steel cantilever system with internal gear-rack drive system.

**Integrated protection:**

- ...from the weather
- ...from tampering
- ...from personal injury
- ...from unsightly chains

Automation ready.

Makes the mechanics disappear for a clean simple look.

Comunello quality - DuraGates support!



**Manufactured by**  
**COMUNELLO**  
LIFE MADE EASY



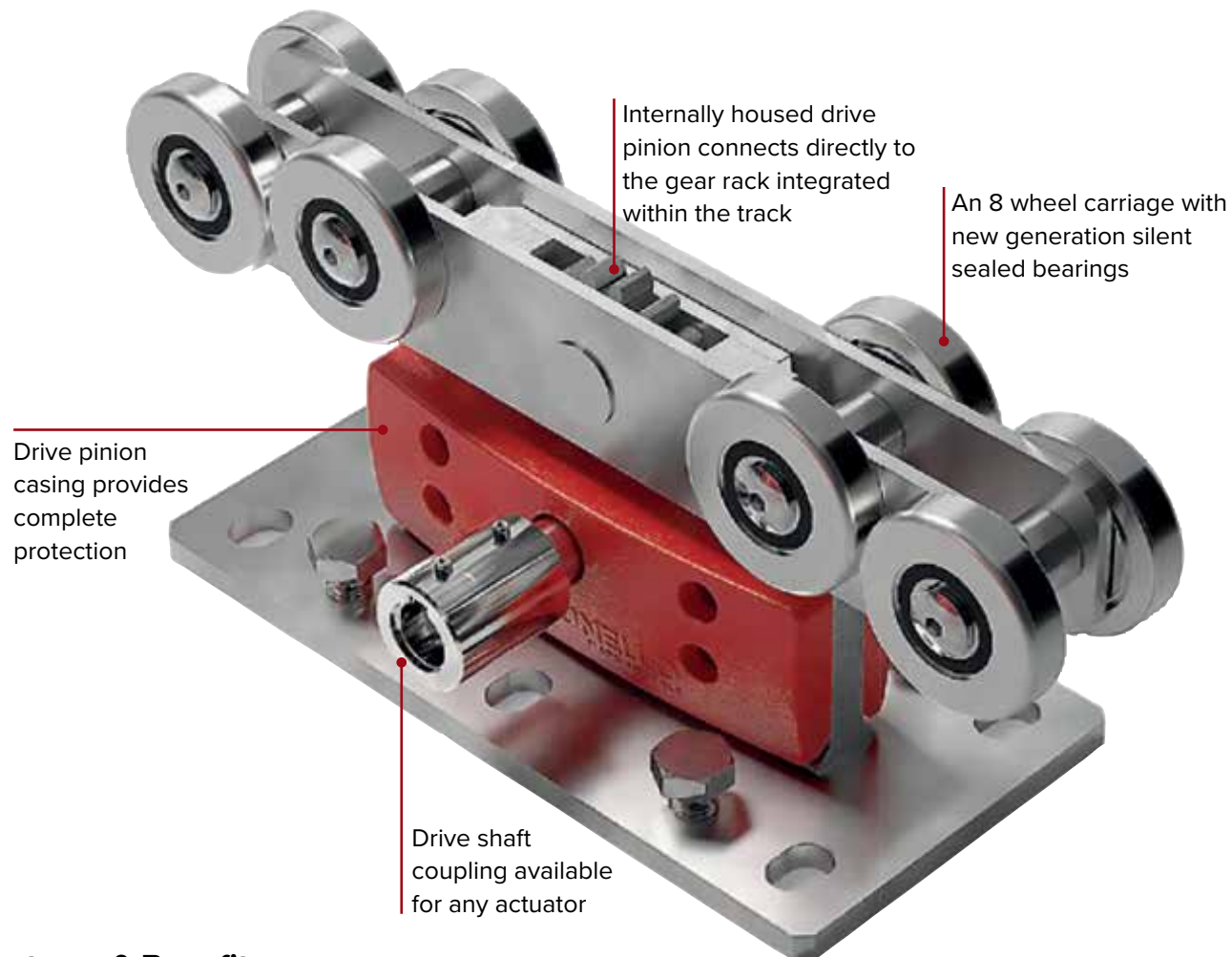
Watch a video for more information.


















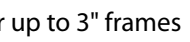
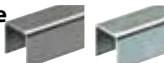

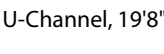
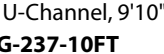




**The Integrator** hides the drive gear in the carriage and the gear rack inside the track and couples the gate operator directly to the carriage for a unique integrated system that completely hides the drive mechanics.

- The drive pinion and gear rack are completely protected inside the carriage and track, which guarantees excellent protection from ice blockages and other weather related problems.
- Carriage with integrated pinion provides for an easy installation: simply connect the carriage directly to the gate operator using the drive shaft coupling
- Suitable for temperatures ranging from -22°F to 176°F.
- The integrated drive system protects the moving parts and gives a clean, elegant look while increasing personal safety.



## Features & Benefits:

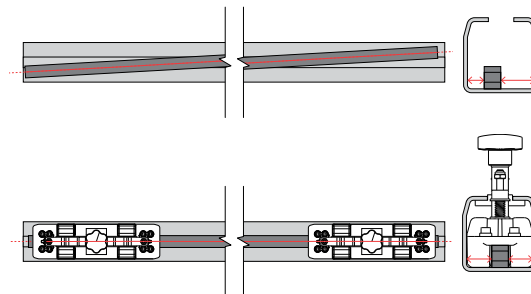
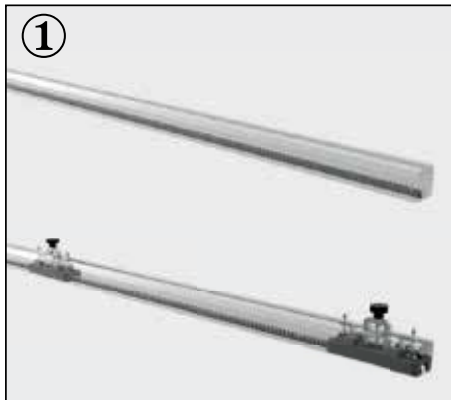
- Noiseless bearings of new generation shielded to protect against dust suitable for temperatures from -22°F to 176°F
- Self-balancing
- 8 support wheels for each carriage
- Quiet operation
- Increased personal safety
- Next Gen technology

| Model   | CGS-500.8M  | CGS-500.8P  | CGS-500.8G  |
|---|---|---|---|
| Opening range:<br>Weight:   | Up to 23 ft.<br>Up to 1100 lbs.   | Up to 26 ft.<br>Up to 1760 lbs.   | Up to 52 ft.<br>Up to 2645 lbs.   |
| <b>CARRIAGES</b><br>   | <b>CGS-500.8M</b><br>Small Primary/Secondary<br>8-Wheel Carriage Set<br>• Driven Primary Carriage<br>• Secondary Carriage   | <b>CGS-500.8P</b><br>Large Primary/Secondary<br>8-Wheel Carriage Set<br>• Driven Primary Carriage<br>• Secondary Carriage   | <b>CGS-500.8G</b><br>Grande Primary/Secondary<br>8-Wheel Carriage Set<br>• Driven Primary Carriage<br>• Secondary Carriage  |
| <b>TRACK</b><br>   | <b>CGS-345M</b><br>Small, galvanized steel<br>19'8" or 9'10" lengths  | <b>CGS-345P</b><br>Large, galvanized steel<br>19'8" or 9'10" lengths  | <b>CGS-345G</b><br>Grande, galvanized steel<br>19'8" or 9'10" lengths   |
| <b>RACK</b><br>  | <b>CG-50M</b><br>4'11" Gear Rack<br>w/Mounting Screws   | <b>CG-50P</b><br>4'11" Gear Rack<br>w/Mounting Screws   | <b>CG-50G</b><br>3'4" Gear Rack<br>w/Mounting Screws  |
| <b>TEMPLATE</b><br>  | <b>CG-55M</b><br>Gear rack centering device<br>Set of 2 pieces<br>Installation tool to center and align gear rack in track  | <b>CG-55P</b><br>Gear rack centering device<br>Set of 2 pieces<br>Installation tool to center and align gear rack in track  | <b>CG-55G</b><br>Gear rack centering device<br>Set of 2 pieces<br>Installation tool to center and align gear rack in track  |
| <b>ADAPTER</b><br>  | <b>CG-58</b><br>Drive Shaft Coupling  | <b>CG-58</b><br>Drive Shaft Coupling  | <b>CG-58G</b><br>Drive Shaft Coupling   |
| <b>TYPICAL ACCESSORIES</b><br><br>2x <br><br>1x <br><br>2x <br><br>1x <br><br>12x <br><br>2x  | <b>CGS-347M</b><br>End Wheel for UL325 Compliance<br><br><b>CGS-346M</b><br>Bottom End Cup<br><br><b>CG-15M</b><br>Adjustable mounting bracket<br><br><b>CG-30M</b><br>Gate receiver, 2" - 3" frame<br><br><b>CG-348-M16</b><br>Threaded J-bolt for mounting carriages.<br><br><b>CG-05P</b><br>Foundation plate for carriage | <b>CGS-347P</b><br>End Wheel for UL325 Compliance<br><br><b>CGS-346P</b><br>Bottom End Cup<br><br><b>CG-15P</b><br>Adjustable mounting bracket<br><br><b>CG-30M</b><br>Gate receiver, 2" - 3" frame<br><br><b>CG-348-M16</b><br>Threaded J-bolt for mounting carriages.<br><br><b>CG-05P</b><br>Foundation plate for carriage   | <b>CGS-347G</b><br>End Wheel for UL325 Compliance<br><br><b>CGS-346G</b><br>Bottom End Cup<br><br><b>CG-15G</b><br>Adjustable mounting bracket<br><br><b>CG-30M</b><br>Gate receiver, 2" - 3" frame<br><br><b>CG-348-M20</b><br>Threaded J-bolt for mounting carriages.<br><br><b>CG-05G</b><br>Foundation plate for carriage |
| <b>TOP GUIDE OPTIONS</b><br><br>Adjustable Guiding Plate with roller covers to avoid pinch points.<br><br> <b>255-220-C</b><br>For up to 2 3/8" frame<br><br> <b>256-220</b><br>For up to 3" frames<br><br> <b>256-300</b><br>For up to 4 1/2" frames  |   | <b>SIDE MOUNT GUIDE OPTIONS</b><br><br>Galvanized & Aluminum Guide Rail<br> <b>CG-254</b><br>Galvanized 1 1/2" U-Channel, 9'10"<br> <b>RG-387-19.68FT</b><br>Galvanized 1 1/4" U-Channel, 19'8"<br> <b>RG-387-9.84FT</b><br>Galvanized 1 1/4" U-Channel, 9'10"<br> <b>CG-237-20FT / CG-237-10FT</b><br>Aluminum 1 1/2" U-Channel, 20' / 10'<br><br> <b>CG-252</b><br>Single Roller, 1 1/2" dia.<br><i>This roller only works with CG-254</i><br><br> <b>258-30</b><br>Double Roller 1 1/4" dia.<br><br> <b>230-40</b><br>Nylon Replacement Roller 1 1/2" dia.<br><br> <b>253-40</b><br>10" Side Roller 1 1/4" dia.<br>2" clearance<br>Use 2 per gate min. |   |
| USE FOR GATES WITH AN ARCHED TOP OR PROTRUDING PICKETS  |   |   |   |

## The Integrator Gear Rack Installation Tool



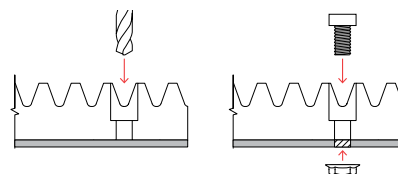
The integrator installation tool is a centering and alignment guide. It quickly and simply centers the gear rack along its length by sliding into position inside the track. The central slot in the guide base holds the gear rack centered in the track. The screw adjustment locks the tool in position so that the pre-drilled holes on the gear rack can be used as a template for drilling into the track. When a second piece of gear rack is required, just position the guide between the two gear racks and tighten the locking screw. This will perfectly align the teeth between the two gear racks.



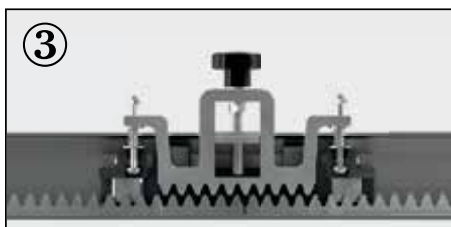
Position the first piece of gear rack inside the track. Use two template guides, one positioned at each end of the gear rack to center the gear rack lengthways within the track.



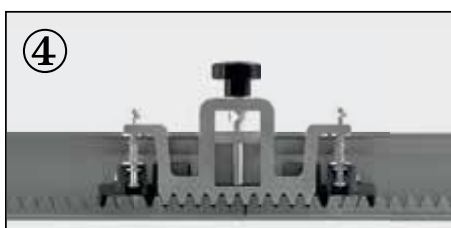
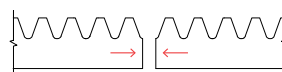
Using the pre-drilled gear rack as a guide, drill mounting holes in the track. Screw the gear rack to the track.



| Drill Bit Sizes: |        |
|------------------|--------|
| CG-50M           | 5.2mm  |
| CG-50P           | 6.2mm  |
| CG-50G           | 10.2mm |



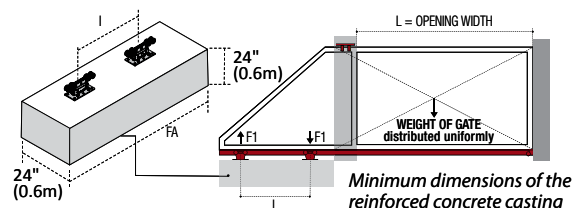
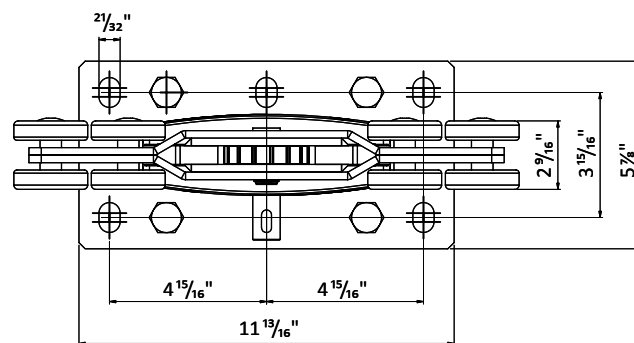
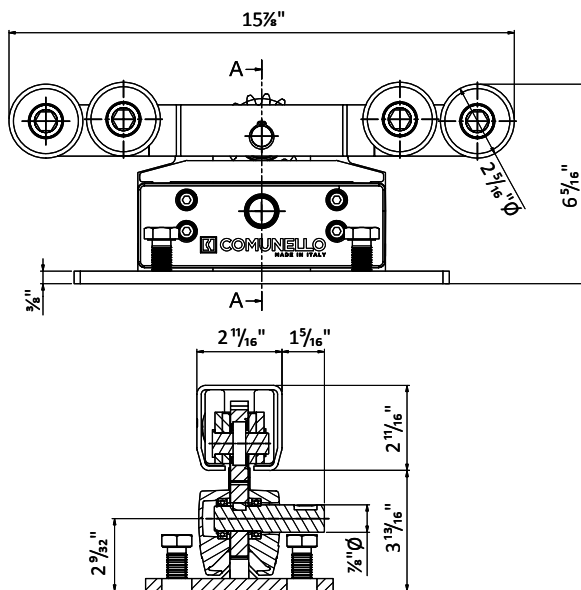
Insert the second piece of gear rack.



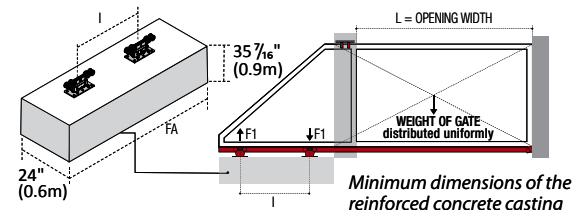
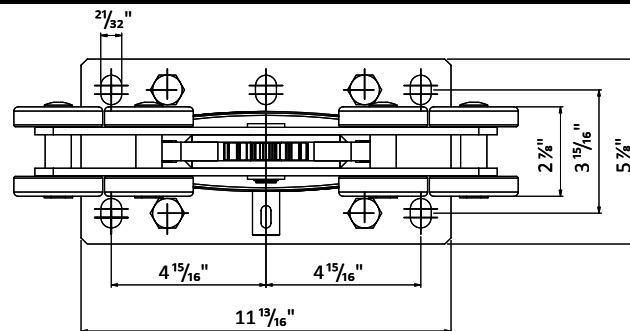
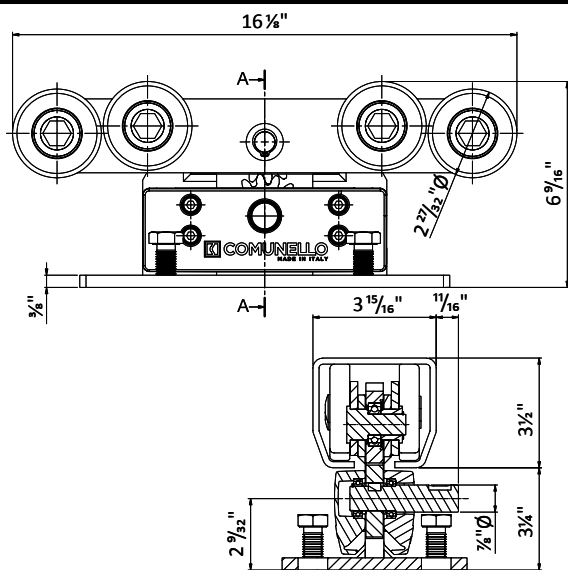
Position the template guide between two pieces of gear rack and tighten the locking screw. The gear rack teeth are registered and spaced correctly as the guide is tightened into place. After locking the second guide at the far end of the gear rack, use the pre-drilled gear rack as a guide to continue drilling mounting holes in the track.

## The Integrator Specifications

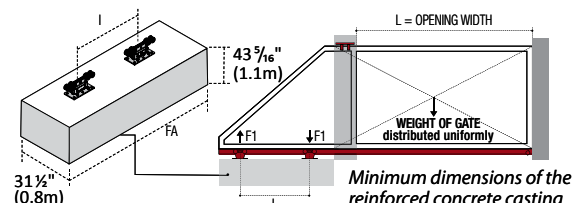
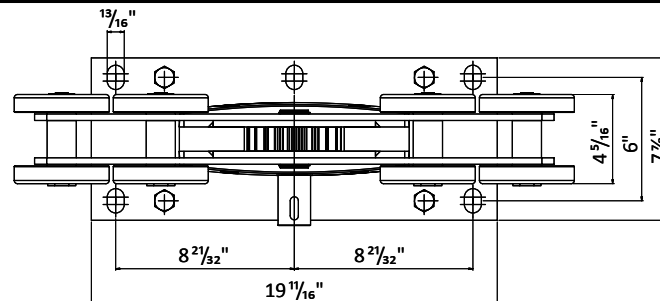
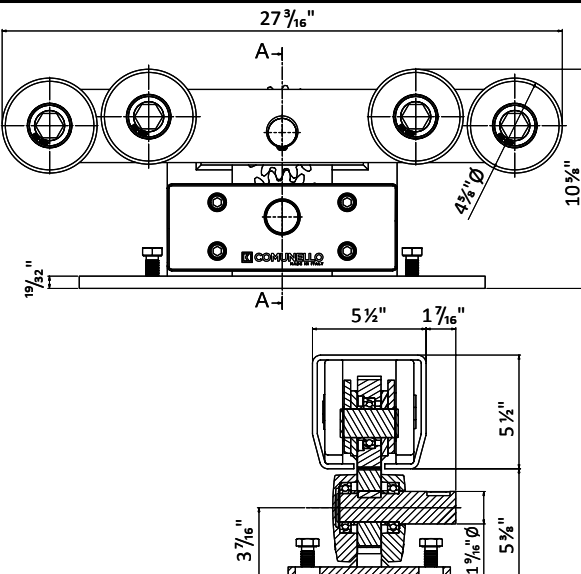
CGS-500.8M



CGS-500.8P



CGS-500.8G





CGS-500.8M (F1max=1100 Lbs)

|              | L=6'7"  |        | L=9'10" |        | L=13'2" |        | L=16'5" |        | L=19'8" |        | L=23'   |        |
|--------------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|
| Weight (Lbs) | FA (in) | I (in) | FA (in) | I (in) | FA (in) | I (in) | FA (in) | I (in) | FA (in) | I (in) | FA (in) | I (in) |
| 220          | 48      | 20     | 60      | 32     | 67      | 40     | 79      | 52     | 91      | 60     | 99      | 71     |
| 330          | 48      | 20     | 60      | 32     | 67      | 40     | 79      | 52     | 91      | 60     | 99      | 71     |
| 440          | 48      | 20     | 60      | 32     | 67      | 40     | 79      | 52     | 91      | 60     | 99      | 71     |
| 550          | 48      | 20     | 60      | 32     | 67      | 40     | 79      | 52     | 91      | 60     | 99      | 71     |
| 660          | 48      | 20     | 60      | 32     | 67      | 40     | 79      | 52     | 91      | 60     | 99      | 71     |
| 770          | 52      | 24     | 60      | 32     | 67      | 40     | 79      | 52     | 91      | 63     | 103     | 75     |
| 880          | 56      | 28     | 67      | 40     | 79      | 52     | 91      | 63     | 103     | 75     | 115     | 87     |
| 990          | 60      | 32     | 71      | 44     | 87      | 60     | 103     | 75     | 119     | 91     | 134     | 107    |
| 1100         | 67      | 40     | 83      | 56     | 99      | 71     | 115     | 87     | 134     | 107    | 154     | 126    |

CGS-500.8P (F1max=1760 Lbs)

|              | L=9'10" |        | L=13'2" |        | L=16'5" |        | L=19'8" |        | L=23'   |        | L=26'3" |        |
|--------------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|
| Weight (Lbs) | FA (in) | I (in) | FA (in) | I (in) | FA (in) | I (in) | FA (in) | I (in) | FA (in) | I (in) | FA (in) | I (in) |
| 220          | 60      | 32     | 67      | 40     | 79      | 52     | 87      | 60     | 99      | 71     | 107     | 79     |
| 330          | 60      | 32     | 67      | 40     | 79      | 52     | 87      | 60     | 99      | 71     | 107     | 79     |
| 440          | 60      | 32     | 67      | 40     | 79      | 52     | 87      | 60     | 99      | 71     | 107     | 79     |
| 550          | 60      | 32     | 67      | 40     | 79      | 52     | 87      | 60     | 99      | 71     | 107     | 79     |
| 660          | 60      | 32     | 67      | 40     | 79      | 52     | 87      | 60     | 99      | 71     | 107     | 79     |
| 770          | 60      | 32     | 67      | 40     | 79      | 52     | 87      | 60     | 99      | 71     | 107     | 79     |
| 880          | 60      | 32     | 67      | 40     | 79      | 52     | 87      | 60     | 99      | 71     | 107     | 79     |
| 990          | 60      | 32     | 67      | 40     | 79      | 52     | 87      | 60     | 99      | 71     | 107     | 79     |
| 1100         | 60      | 32     | 67      | 40     | 79      | 52     | 87      | 60     | 99      | 71     | 107     | 79     |
| 1210         | 60      | 32     | 67      | 40     | 79      | 52     | 87      | 60     | 99      | 71     | 111     | 83     |
| 1320         | 63      | 36     | 71      | 44     | 83      | 56     | 95      | 67     | 107     | 79     | 119     | 91     |
| 1430         | 67      | 40     | 79      | 52     | 91      | 63     | 103     | 75     | 119     | 91     | 130     | 103    |
| 1540         | 71      | 44     | 83      | 56     | 99      | 71     | 111     | 83     | 126     | 99     | 142     | 115    |
| 1650         | 75      | 48     | 91      | 63     | 107     | 79     | 123     | 95     | 138     | 111    | 154     | 126    |
| 1760         | 79      | 52     | 95      | 67     | 115     | 87     | 130     | 103    | 150     | 123    | 170     | 142    |

CGS-500.8G (F1max=2640 Lbs)

|              | L=26'3" |        | L=29'6" |        | L=32'10" |        | L=36'1" |        | L=39'4" |        | L=42'8" |        | L=45'11" |        | L=49'3" |        | L=52'6" |        |
|--------------|---------|--------|---------|--------|----------|--------|---------|--------|---------|--------|---------|--------|----------|--------|---------|--------|---------|--------|
| Weight (Lbs) | FA (in) | I (in) | FA (in) | I (in) | FA (in)  | I (in) | FA (in) | I (in) | FA (in) | I (in) | FA (in) | I (in) | FA (in)  | I (in) | FA (in) | I (in) | FA (in) | I (in) |
| 1100         | 115     | 79     | 126     | 91     | 134      | 99     | 146     | 111    | 154     | 119    | 166     | 130    | 174      | 138    | 186     | 150    | 193     | 158    |
| 1210         | 115     | 79     | 126     | 91     | 134      | 99     | 146     | 111    | 154     | 119    | 166     | 130    | 174      | 138    | 186     | 150    | 193     | 158    |
| 1320         | 115     | 79     | 126     | 91     | 134      | 99     | 146     | 111    | 154     | 119    | 166     | 130    | 174      | 138    | 186     | 150    | 193     | 158    |
| 1430         | 115     | 79     | 126     | 91     | 134      | 99     | 146     | 111    | 154     | 119    | 166     | 130    | 174      | 138    | 186     | 150    | 193     | 158    |
| 1540         | 115     | 79     | 126     | 91     | 134      | 99     | 146     | 111    | 154     | 119    | 166     | 130    | 174      | 138    | 186     | 150    | 193     | 158    |
| 1650         | 115     | 79     | 126     | 91     | 134      | 99     | 146     | 111    | 154     | 119    | 166     | 130    | 174      | 138    | 186     | 150    | 193     | 158    |
| 1760         | 115     | 79     | 126     | 91     | 134      | 99     | 146     | 111    | 154     | 119    | 166     | 130    | 174      | 138    | 186     | 150    | 193     | 158    |
| 1870         | 115     | 79     | 126     | 91     | 134      | 99     | 146     | 111    | 154     | 119    | 166     | 130    | 174      | 138    | 186     | 150    | 193     | 158    |
| 1980         | 115     | 79     | 126     | 91     | 134      | 99     | 146     | 111    | 154     | 119    | 166     | 130    | 174      | 138    | 186     | 150    | 193     | 158    |
| 2090         | 115     | 79     | 126     | 91     | 134      | 99     | 146     | 111    | 154     | 119    | 166     | 130    | 174      | 138    | 186     | 150    | 201     | 166    |
| 2200         | 115     | 79     | 126     | 91     | 134      | 99     | 146     | 111    | 158     | 123    | 170     | 134    | 182      | 146    | 197     | 162    | 209     | 174    |
| 2310         | 115     | 79     | 126     | 91     | 138      | 103    | 150     | 115    | 162     | 126    | 178     | 142    | 189      | 154    | 205     | 170    | 221     | 186    |
| 2420         | 119     | 83     | 130     | 95     | 146      | 111    | 158     | 123    | 170     | 134    | 186     | 150    | 201      | 166    | 217     | 182    | 233     | 197    |
| 2530         | 126     | 91     | 138     | 103    | 150      | 115    | 166     | 130    | 178     | 142    | 193     | 158    | 209      | 174    | 225     | 189    | 245     | 209    |
| 2640         | 130     | 95     | 142     | 107    | 158      | 123    | 170     | 134    | 186     | 150    | 201     | 166    | 221      | 186    | 237     | 201    | 256     | 221    |

# V-GROOVE ROLLING GATE SYSTEM

Mfg. in Italy by **COMUNELLO**  
LIFE MADE EASY

Manufactured in Italy by Comunello, this galvanized V-groove rolling gate hardware is a high quality system for residential and commercial applications. The V-groove track can either be cemented in the ground or bolted in place. A wide variety of wheels are available with weight capacities ranging from 485lbs - 4200lbs based on size and method for attaching to the gate.

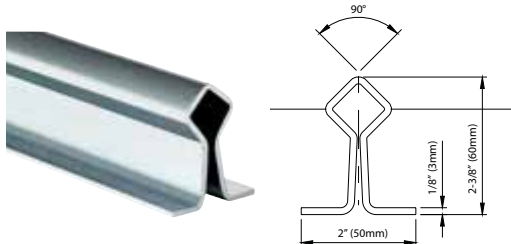


## V-GROOVE TRACK - GALVANIZED

### 292-10FT

### 292-20FT

V-groove track to be recessed into the concrete foundation.



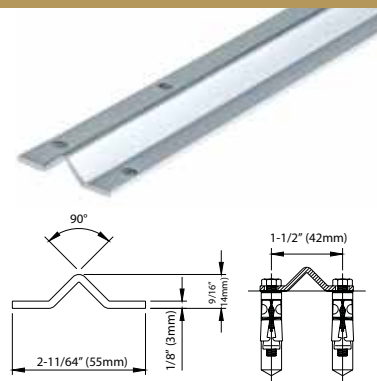
### 293-10FT

### 293-20FT

V-groove track to be bolted in place.

Hole size: 1/4" x 5/16"

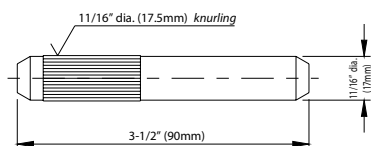
Spacing: 19-5/8" offset each side



## V-GROOVE CONNECTION PINS - GALVANIZED

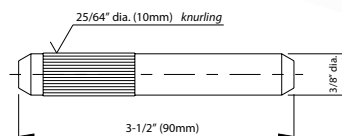
### 294

Connection pin to be used with track item 292



### 295

Connection pin to be used with track item 293



ALL DIMENSIONS ARE APPROXIMATE.

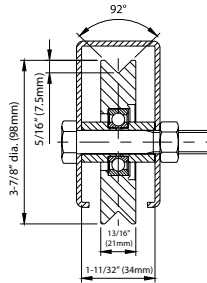
# V-GROOVE ROLLING GATE SYSTEM

## STANDARD V-GROOVE WHEELS - GALVANIZED



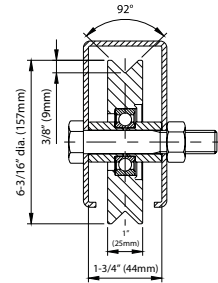
### 300V-100

- 4" wheel with **single bearing**
- M14 x 70mm wheel pin
- 485lb capacity per wheel



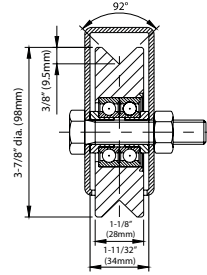
### 300V-160

- 6" wheel with **single bearing**
- M16 x 70mm wheel pin
- 640lb capacity per wheel



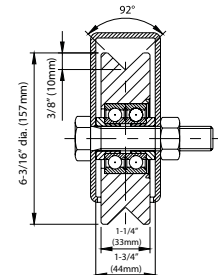
### 305V-100

- 4" wheel with **double bearing**
- M14 x 70mm wheel pin
- 940lb capacity per wheel



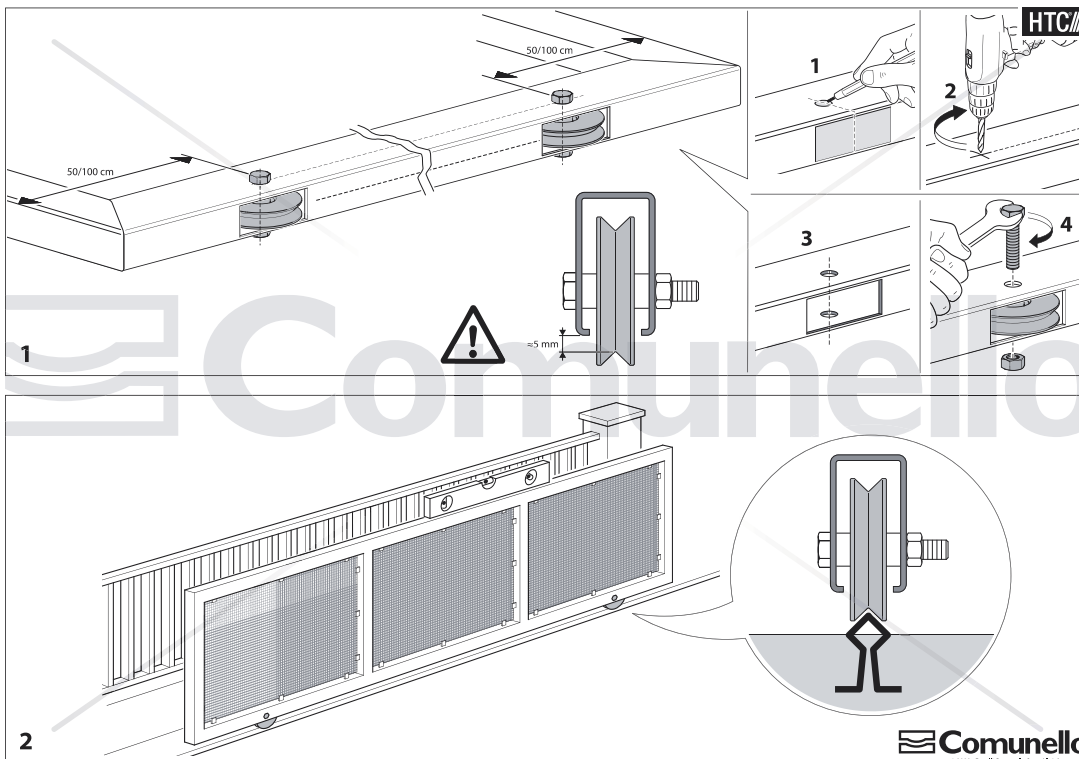
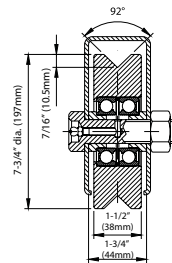
### 305V-160

- 6" wheel with **double bearing**
- M16 x 70mm wheel pin
- 1270lb capacity per wheel



### 322V-200

- 8" heavy duty wheel with **double bearing**
- M18 x 70mm wheel pin
- 2205lb capacity per wheel
- grease zerk fittings in axle



ALL DIMENSIONS ARE APPROXIMATE.

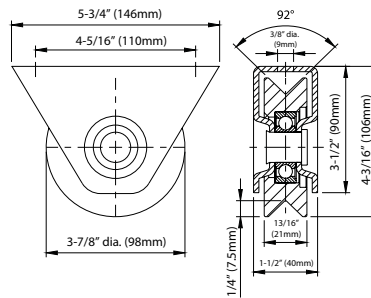
# V-GROOVE ROLLING GATE SYSTEM

## SURFACE MOUNTED V-GROOVE WHEELS - GALVANIZED



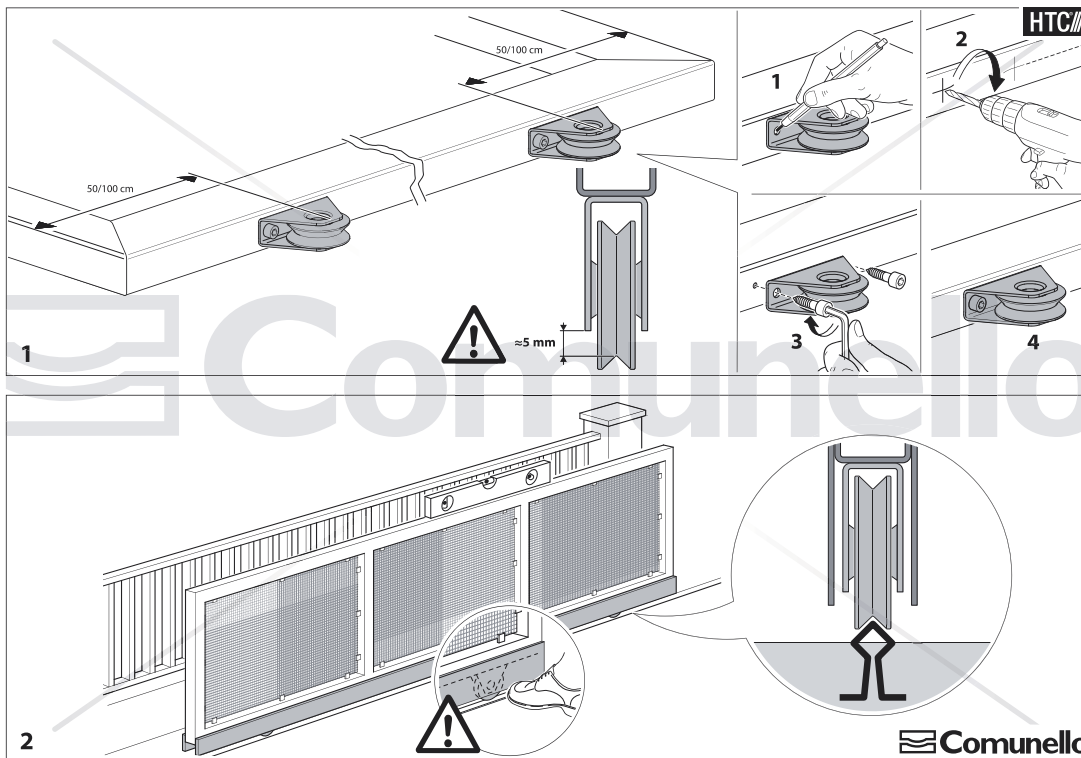
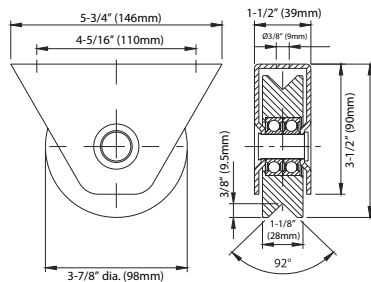
### 325V-100

- 4" wheel with **single bearing** and external surface mount support
- 485lb capacity per wheel

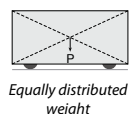


### 326V-100

- 4" wheel with **double bearing** and external surface mount support
- 890lb capacity per wheel



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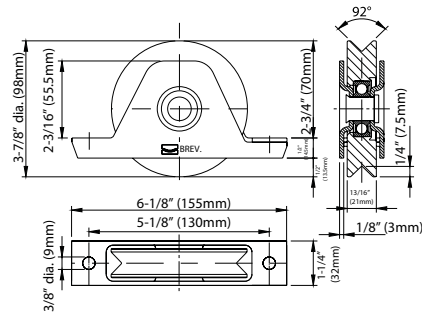
# V-GROOVE ROLLING GATE SYSTEM

## RECESSED MOUNT V-GROOVE WHEELS - GALVANIZED



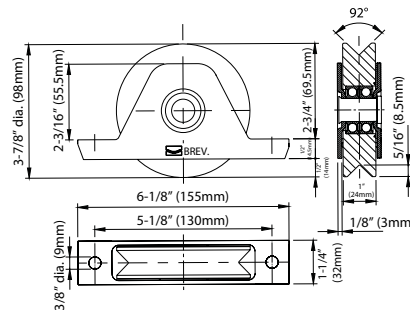
### 335V-100

- 4" wheel with **single bearing** and recessed mounting plate
- 440lb capacity per wheel



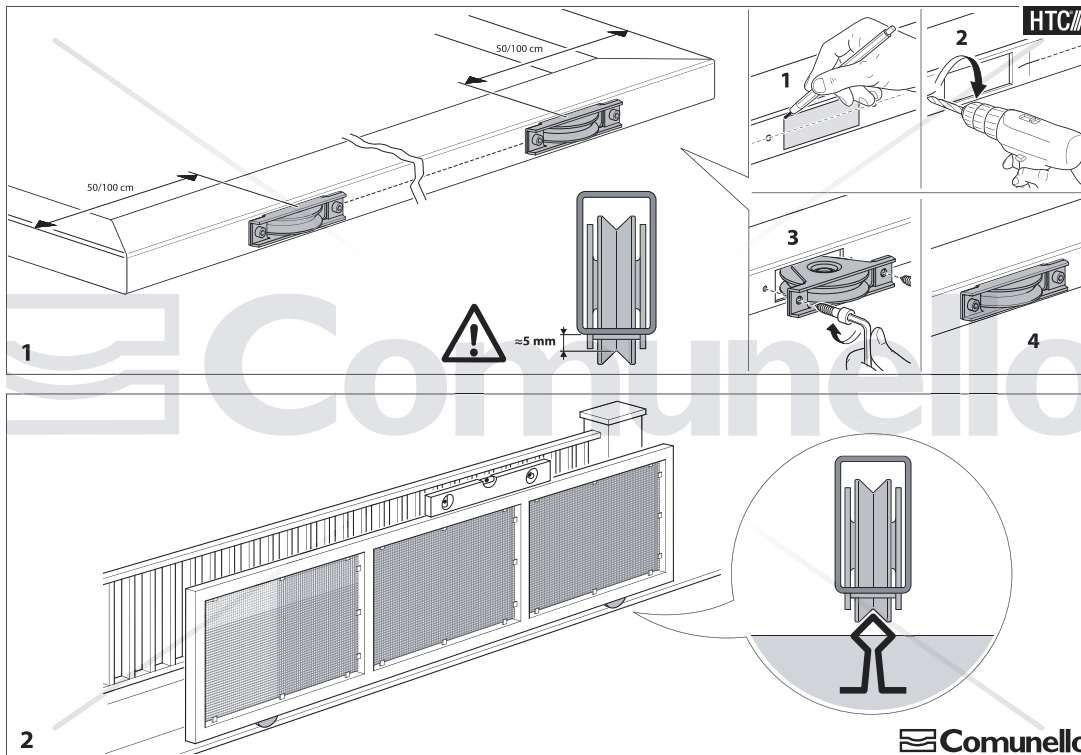
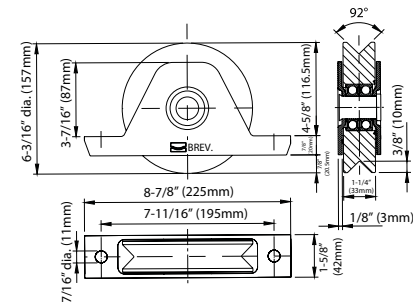
### 336V-100

- 4" wheel with **double bearing** and recessed mounting plate
- 840lb capacity per wheel



### 336V-160

- 6" wheel with **double bearing** and recessed mounting plate
- 1410lb capacity per wheel



ALL DIMENSIONS ARE APPROXIMATE.

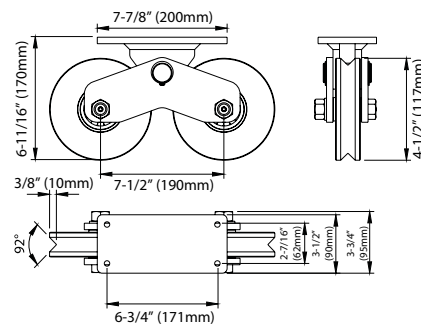
# V-GROOVE ROLLING GATE SYSTEM

## HD TWIIN WHEEL V-GROOVE - GALVANIZED



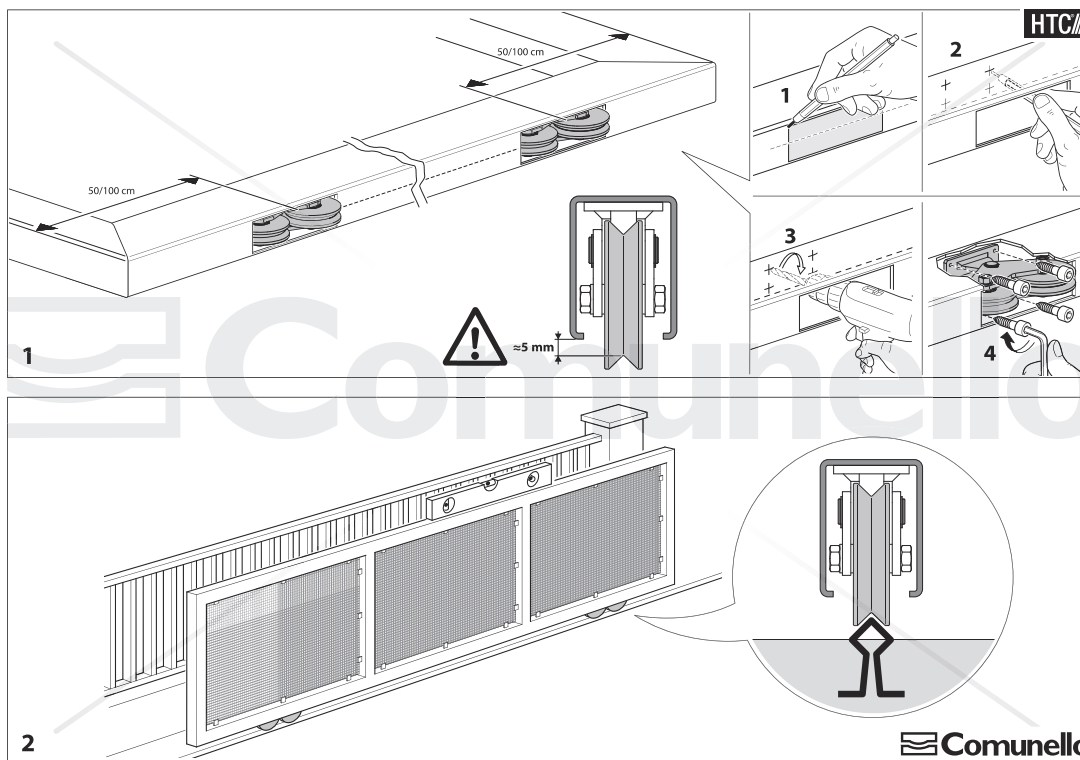
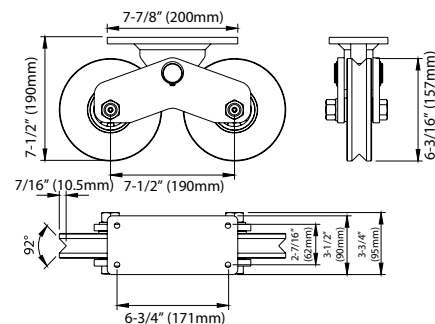
### 339V-120

- 4-3/4" heavy duty surface mounted twin wheels with **double bearing**
- M18 x 80mm wheel pin
- 2645lb capacity per wheel
- grease zerk fittings in axle

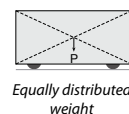


### 339V-160

- 6" heavy duty surface mounted twin wheels with **double bearing**
- M18 x 80mm wheel pin
- 4230lb capacity per wheel
- grease zerk fittings in axle



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# V-GROOVE ROLLING GATE SYSTEM

## TOP GUIDE OPTIONS - GALVANIZED

**Adjustable Guiding Plate with roller covers to avoid pinch points.**



**255-220-C**

For up to 2 3/8" frame



**256-220**

For up to 3" frames

**256-300**

For up to 4 1/2" frames



**247**

For 1 1/4" to 2" Frames



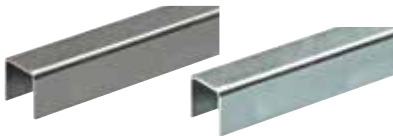
**247F**

For up to 3" frames

## SIDE MOUNT GUIDE OPTIONS - GALVANIZED

**USE FOR GATES WITH AN ARCHED TOP OR PROTRUDING PICKETS**

### Galvanized & Aluminum Guide Rail



**CG-254**

Galvanized 1 1/2" U-Channel, 9'10"

**RG-387-19.68FT**

Galvanized 1 1/4" U-Channel, 19'8"

**RG-387-9.84FT**

Galvanized 1 1/4" U-Channel, 9'10"

**CG-237-20FT**

Aluminum 1 1/2" U-Channel, 20'

**CG-237-10FT**

Aluminum 1 1/2" U-Channel, 10'



**258-30**

Double Roller

1 1/4" dia.



**CG-252**

Single Roller

1 1/2" dia.

*This roller only works with CG-254*

Non Marring  
Rubber Rollers  
2-1/4" dia.

**NR3**

3" Roller

**NR6**

6" Roller

**253-40**

10" Side Roller

1-1/4" dia.

2" clearance

Use 2 per gate min.



Rubber Rollers  
2-3/8" dia.

**RR3**

3" Roller

**RR6**

6" Roller

**RR12**

12" Roller



## GATE STOP - GALVANIZED



**202**

- Runaway stop
- Mounted via screws
- 4-3/4" high



**202F-A**

Damped runaway  
stop. Mounted via  
screws.

## NYLON REPLACEMENT ROLLER



**230-30**

1-3/16" dia.  
(30mm)

**230-40**

1-1/2" dia.  
(39mm)

ALL DIMENSIONS ARE APPROXIMATE.

# GATE ROLLERS

The SafeGlide® Cantilever Gate Roller can be used with cantilever gates. Easily installed & maintenance-free, the roller ensures reliable performance in industrial, commercial & residential applications. Mounting brackets available for 4" and 6-5/8" round posts; 4" and 6" square posts. Specify the roller alone, or pair it with a gate operator.

## Specifications:

- Manual or automatic gate operation
- Roller: 6", 18,000 lb. PSI rating
- Bearings: 3,100 lb. rating, injection-molded for 2-3/8" dia. pipe, press-fit for 2" sq. pipe
- Mounting bracket: yellow zinc chromate for 4" O.D. pipe
- Made in USA



Top Roller



Bottom Roller



Bottom roller shown

## 575010 (Round)

Cantilever Roller Set

- For 2-3/8" dia. pipe
- Top & Bottom Roller

*Requires 2 sets per gate*



Top roller shown

## 575007 (Square)

Cantilever Roller Set

- For 2" sq. tube
- Top & Bottom Roller

*Requires 2 sets per gate*

## RUBBER ROLLERS

2-3/8" dia.

### RR3

3" Roller

### RR6

6" Roller

### RR12

12" Roller



## NON MARRING RUBBER ROLLERS

2-1/4" dia.

### NR3

3" Roller

### NR6

6" Roller



## NYLON ROLLERS

### 253-40

10" Side Roller

1 1/4" dia.

2" clearance

Use 2 per gate min.



### 230-40

Nylon Replacement Roller

1 1/2" dia.

### 230-30

Nylon Replacement Roller

1 3/16" dia.

ALL DIMENSIONS ARE APPROXIMATE.



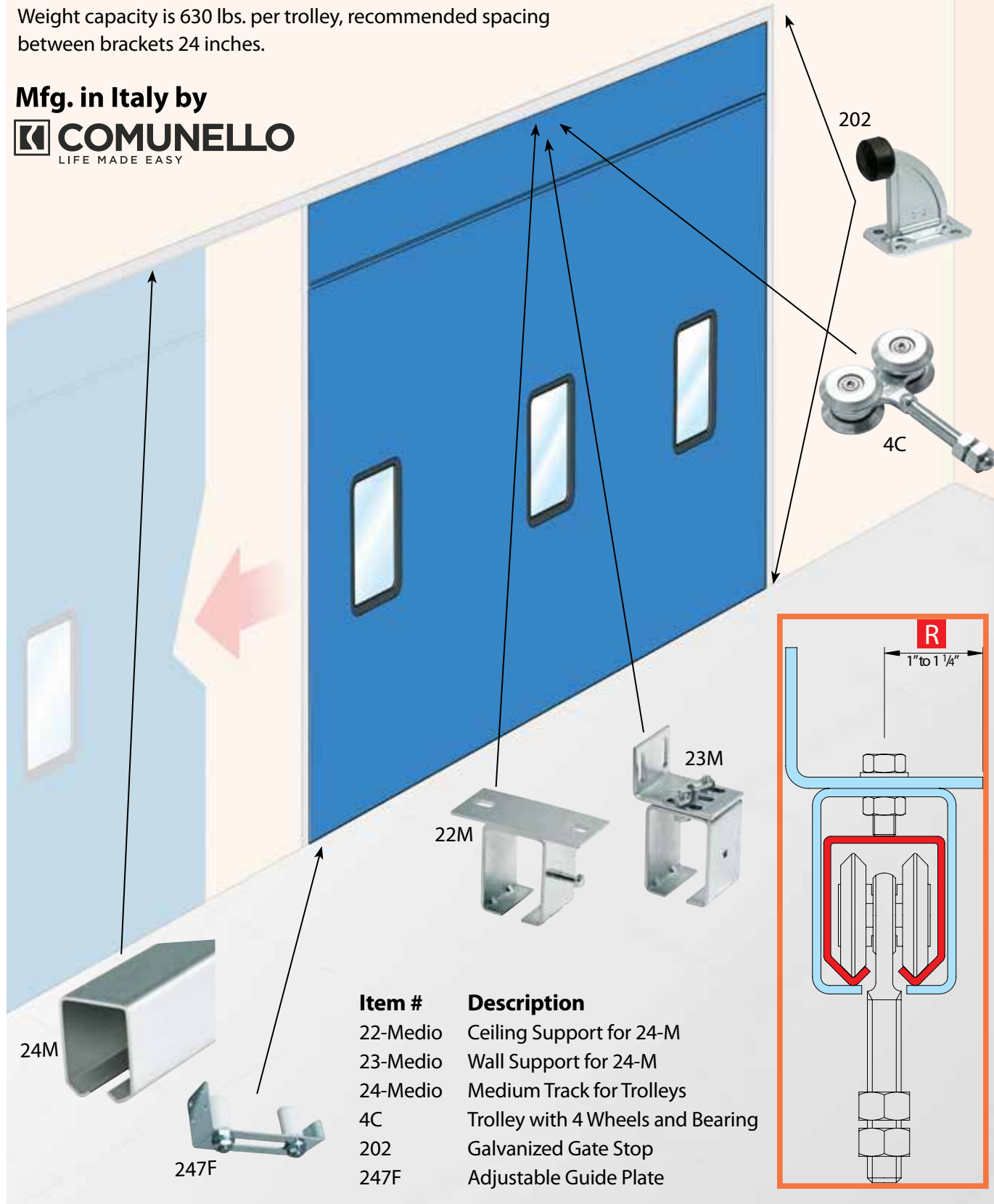
# OVERHEAD TRACK SYSTEM FOR SLIDING DOOR

Sliding solution for industrial doors. Trolleys and tracks for upper sliding doors for all applications, even when guides cannot be installed in the floor. The trolleys feature shielded bearings that provide greater load capacity and are quieter than ball bearings. All accessories are galvanized.

Weight capacity is 630 lbs. per trolley, recommended spacing between brackets 24 inches.

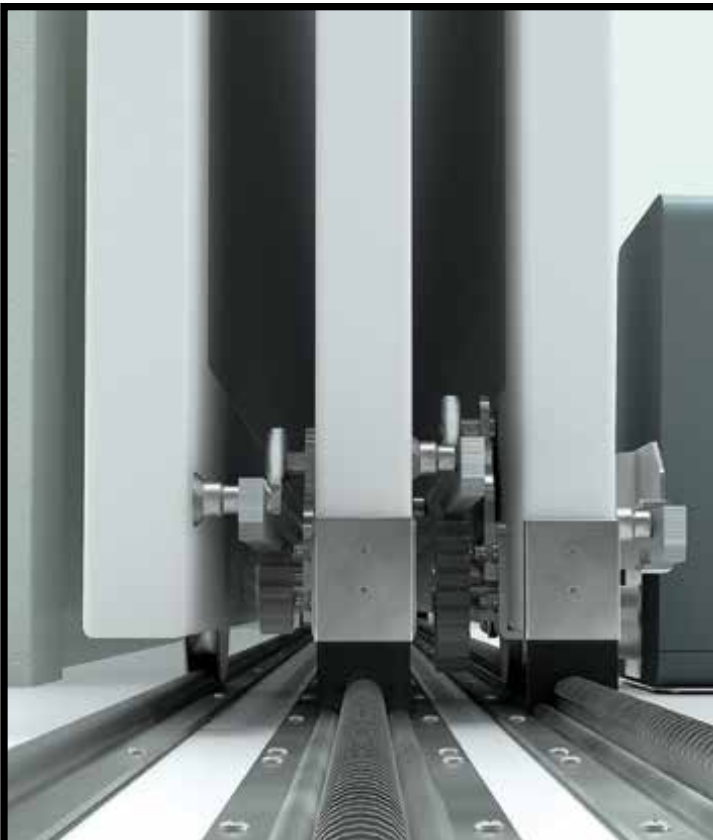
Mfg. in Italy by

**COMUNELLO**  
LIFE MADE EASY



| Item #   | Description                       |
|----------|-----------------------------------|
| 22-Medio | Ceiling Support for 24-M          |
| 23-Medio | Wall Support for 24-M             |
| 24-Medio | Medium Track for Trolleys         |
| 4C       | Trolley with 4 Wheels and Bearing |
| 202      | Galvanized Gate Stop              |
| 247F     | Adjustable Guide Plate            |

ALL DIMENSIONS ARE APPROXIMATE.



# Ranger

The Comunello telescoping gate system.

- Up to 40ft opening requiring only 15ft of space to slide into
- Low maintenance
- Maintains precision
- No unsightly cables

Manufactured by  
**COMUNELLO**  
LIFE MADE EASY

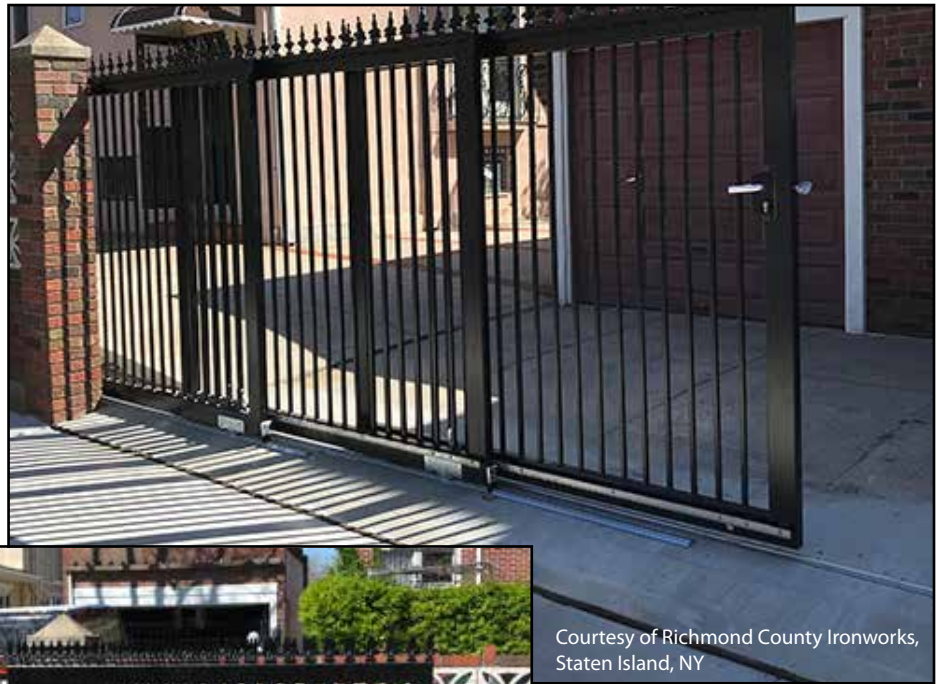
Telescoping  
Sliding Gate  
Configurator  
available at  
[locks4gates.com](http://locks4gates.com)

The Ranger telescoping system uses an innovative ground mounted rack track to drive a second leaf from the first. This track transmits movement using a system of hidden pinions that connect to the side gear rack, driving the next leaf. The simplicity of the Ranger system ensures that it is easy to install, performs reliably, and requires little maintenance. No cables are used so there is no stretching and no regular adjustments are needed. The rack track is brushed clean on every opening by the two cleaning brushes installed on the front and back of each gate leaf.



Watch a video for more information.

# TELESCOPING SLIDING GATE SYSTEM PROJECTS



Courtesy of Richmond County Ironworks,  
Staten Island, NY



Watch the  
client video



Courtesy of RBJ Welding, Waianae, HI



Watch the  
client video



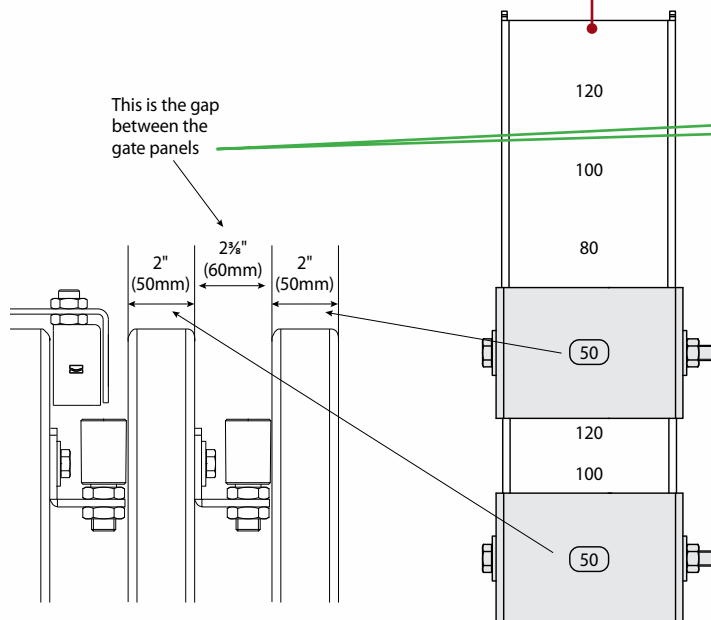
# RANGER TELESCOPING SLIDING GATE SYSTEM

## Ranger features:

- 2 leaf telescoping system  
—Max Gate Leaf 14'4" and 880 lbs.
- 3 leaf telescoping system  
—Max Gate Leaf of 14'7" and 440 lbs.
- Durable galvanized and zinc coated steel hardware
- Large gate opening possible for compact spaces
- Precise, high quality, ground-mounted rack driven track system
- Cableless rack and pinion transmission of movement between the leaves

### The RG-10P template guide

sets the spacing between the gate panels at 2-3/8" (60mm) for proper spacing alignment for the top guide wheels and drive rack and pinion combination. Set the template guide to 50 for 2" gate profiles as shown. *See page 446 for more information.*



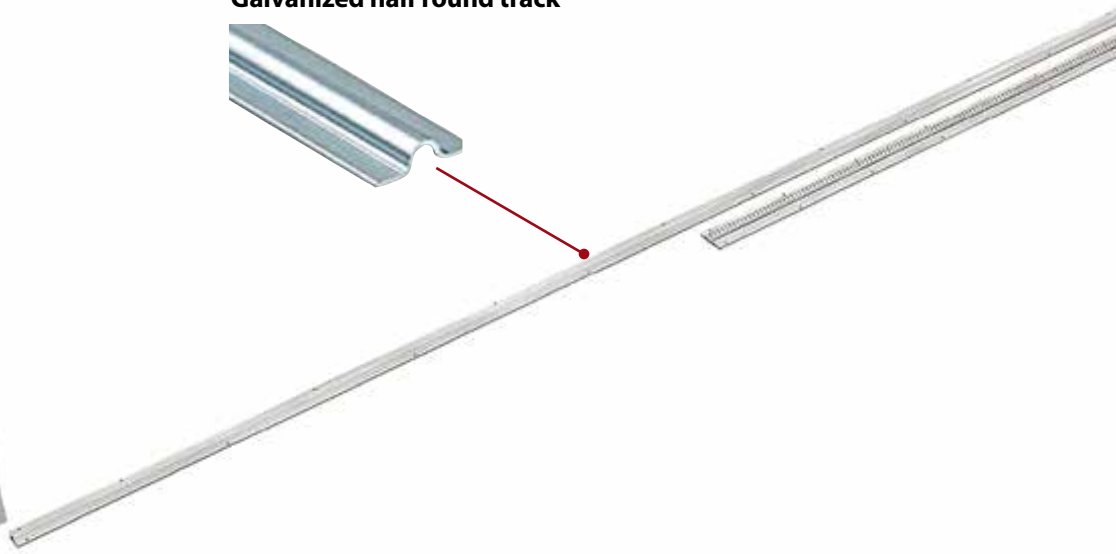
**CG-15M**  
Adjustable  
mounting bracket



**CG-30M**  
Gate receiver

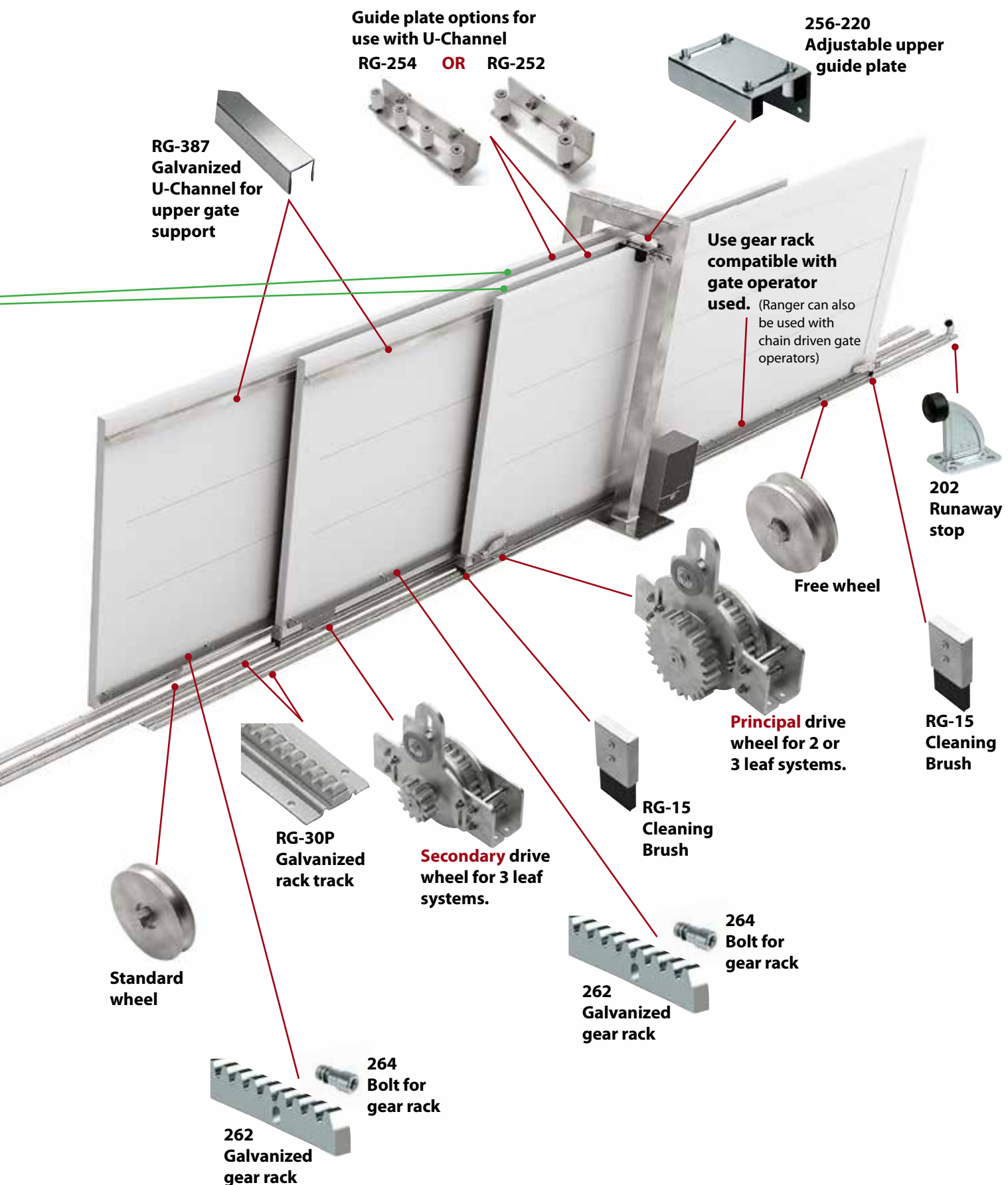


**289G**  
Galvanized half round track





# RANGER TELESCOPING SLIDING GATE SYSTEM



## Ranger Kit RG2-120-50

Configurator for

**2 leaf gates**

- Fits **2" x 4" frame**
- 880 pounds per leaf maximum
- 26ft maximum opening

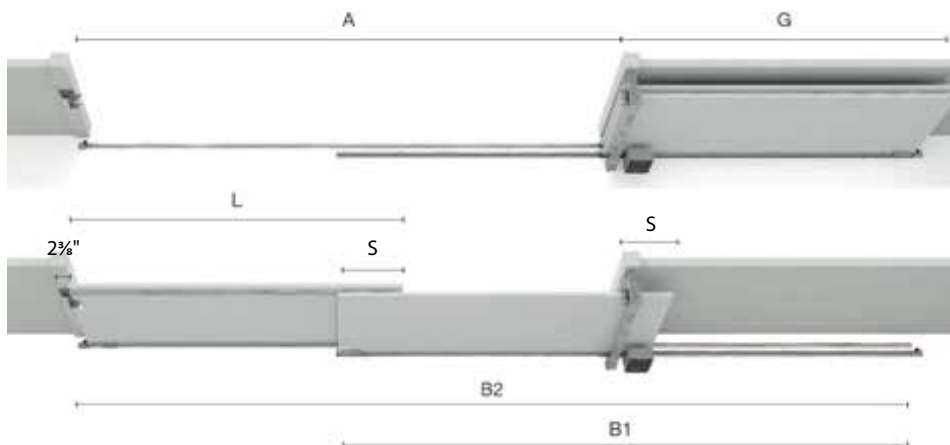


Table is based on the minimum 14" overlap.

### GATE FORMULAS

S = Gate Overlap  
Minimum is 14"

Gate Leaf Length  
 $L \text{ (in)} = (A + 2.5) \div 2 + S$

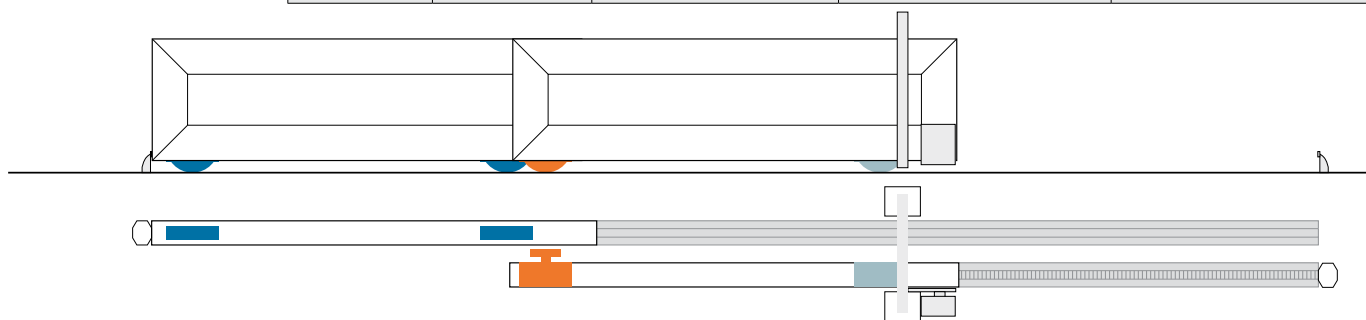
Min Space when Open  
 $G \text{ (in)} = L + 8$

Rack Drive Track Length  
 $B1 \text{ (in)} = L \times 2 - S$

Half Round Track Length  
 $B2 \text{ (in)} = L \times 3 - (S \times 2)$

Note: The parameters in **BOLD** in the formulas above are inches.

| Opening Width<br><b>A</b> (ft) | Gate Leaf Length<br><b>L</b> (ft) | Minimum Clear Space<br>on Open Side<br><b>G</b> (ft) | Rack Track Length<br>Item RG-30<br><b>B1</b> (ft) | Half Round Track Length<br>Item 289<br><b>B2</b> (ft) |
|--------------------------------|-----------------------------------|--|---|---|
| 6                              | 4'4"                              | 5'   | 7'6"  | 10'8"   |
| 8                              | 5'4"                              | 6'   | 9'6"  | 13'9"   |
| 10                             | 6'4"                              | 7'   | 11'6"   | 16'9"   |
| 12                             | 7'4"                              | 8'   | 13'6"   | 19'9"   |
| 14                             | 8'4"                              | 9'   | 15'6"   | 22'9"   |
| 16                             | 9'4"                              | 10'  | 17'6"   | 25'9"   |
| 18                             | 10'4"                             | 11'  | 19'6"   | 28'9"   |
| 20                             | 11'4"                             | 12'  | 21'6"   | 31'9"   |
| 22                             | 12'4"                             | 13'  | 23'6"   | 34'9"   |
| 24                             | 13'4"                             | 14'  | 25'6"   | 37'9"   |
| 26                             | 14'4"                             | 15'  | 27'6"   | 40'9"   |



### 2 LEAF KIT

Opening Range: 26ft max • Weight: 880lbs per leaf max

#### WHEELS



#### RG2-120-50

1 drive wheel

1 free wheel

2 standard wheels with half-round groove

#### TRACK



#### RG-30P

Galvanized Rack Track  
6'6" sections

Use table above to calculate track  
needed by using (B1)



#### 289G-19.68FT

#### 289G-9.84FT

Galvanized Half Round Track  
Use table above to calculate track  
needed by using (B2)



#### 291

Connection Pin

#### RACK



#### 262

Galvanized Gear Rack  
3'3" sections



#### 266

Gear rack connection  
to screw rack to gate



#### 264

Gear rack connection to  
weld rack to steel gate

(3 connectors are needed per 3'3" section of gear rack)

## Ranger Kit RG3-120-50

Configurator for  
**3 leaf gates**

- Fits 2" x 4" frame
- 440 pounds per leaf maximum
- 40ft maximum opening

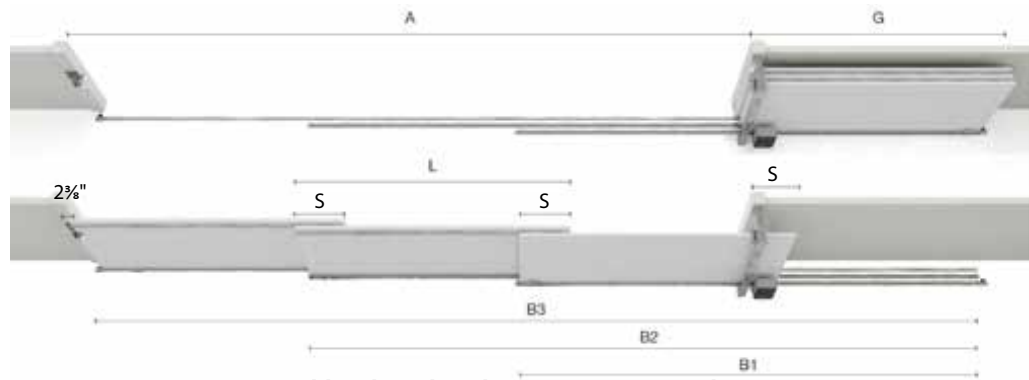


Table is based on the minimum 14" overlap.

| Opening Width<br>A (ft) | Gate Leaf Length<br>L (ft) | Minimum Clear Space<br>on Open Side<br>G (ft) | Rack Track Length<br>Item RG-30<br>B1 (ft) | Rack Track Length<br>Item RG-30<br>B2 (ft) | Half Round Track Length<br>Item 289<br>B3 (ft) |
|-------------------------|----------------------------|---|--|--|--|
| 6                       | 3'3"                       | 3'11"   | 5'4"                                       | 7'5"                                       | 9'9"   |
| 8                       | 3'11"                      | 4'7"  | 6'8"                                       | 9'5"                                       | 12'5"  |
| 10                      | 4'7"                       | 5'3"  | 8'   | 11'5"                                      | 15'1"  |
| 12                      | 5'3"                       | 5'11"   | 9'4"                                       | 13'5"                                      | 17'9"  |
| 14                      | 5'11"                      | 6'7"  | 10'8"                                      | 15'5"                                      | 20'5"  |
| 16                      | 6'7"                       | 7'3"  | 12'  | 17'5"                                      | 23'1"  |
| 18                      | 7'3"                       | 7'11"   | 13'4"                                      | 19'5"                                      | 25'9"  |
| 20                      | 7'11"                      | 8'7"  | 14'8"                                      | 21'5"                                      | 28'5"  |
| 22                      | 8'7"                       | 9'3"  | 16'  | 23'5"                                      | 31'1"  |
| 24                      | 9'3"                       | 9'11"   | 17'4"                                      | 25'5"                                      | 33'9"  |
| 26                      | 9'11"                      | 10'7"   | 18'8"                                      | 27'5"                                      | 36'5"  |
| 28                      | 10'7"                      | 11'3"   | 20'  | 29'5"                                      | 39'1"  |
| 30                      | 11'3"                      | 11'11"  | 21'4"                                      | 31'5"                                      | 41'9"  |
| 32                      | 11'11"                     | 12'7"   | 22'8"                                      | 33'5"                                      | 44'5"  |
| 34                      | 12'7"                      | 13'3"   | 24'  | 35'5"                                      | 47'1"  |
| 36                      | 13'3"                      | 13'11"  | 25'4"                                      | 37'5"                                      | 49'9"  |
| 38                      | 13'11"                     | 14'7"   | 26'8"                                      | 39'5"                                      | 52'5"  |
| 40                      | 14'7"                      | 15'3"   | 28'  | 41'5"                                      | 55'1"  |

### GATE FORMULAS

S = Gate Overlap  
Minimum is 14"

Gate Leaf Length  
L (in) = (A + **2.5**) ÷ 3 + S

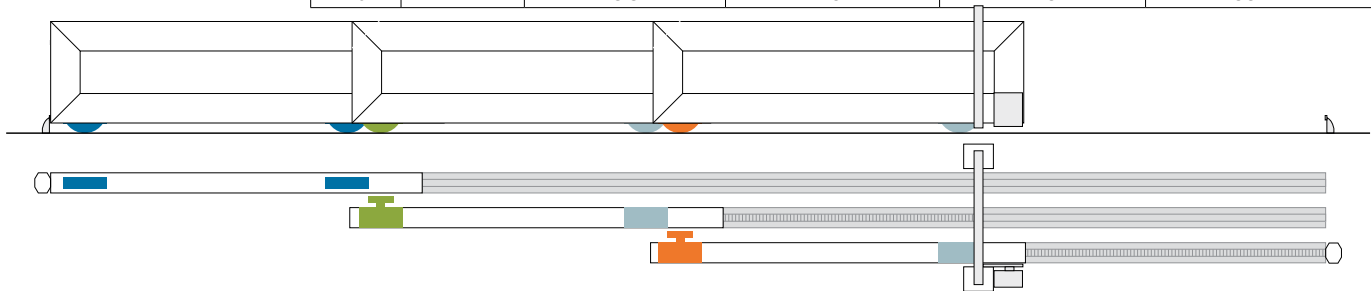
Min Space when Open  
G (in) = L + **8**

Rack Drive Track Length  
B1 (in) = L x 2 - S

Rack Drive Track Length  
B2 (in) = L x 3 - (S x 2)

Half Round Track Length  
B3 (in) = L x 4 - (S x 3)

Note: The parameters in  
**BOLD** in the formulas  
above are inches.



### 3 LEAF KIT

Opening Range: 40ft max • Weight: 440lbs per leaf max

#### WHEELS



#### RG3-120-50

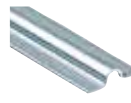
- 1 drive wheel
- 1 drive wheel with low gear ratio
- 2 free wheels
- 2 standard wheels with half-round groove

#### TRACK



#### RG-30P

Galvanized Rack Track 6'6" sections  
Use table above to calculate track  
needed by adding (B1) and (B2)



#### 289G-19.68FT / 289G-9.84FT

Galvanized Half Round Track  
Use table above to calculate track  
needed by using (B3)

#### 291

Connection Pin



#### RACK



#### 262

Galvanized Gear Rack  
3'3" sections



#### 266

Gear rack connection  
to screw rack to gate



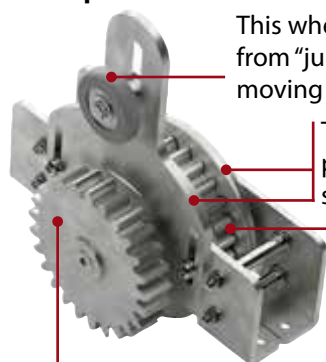
#### 264

Gear rack connection to  
weld rack to steel gate

(3 connectors are needed per 3'3" section of gear rack)

## KIT COMPONENTS

### Principal drive wheel for 2 or 3 leaf systems

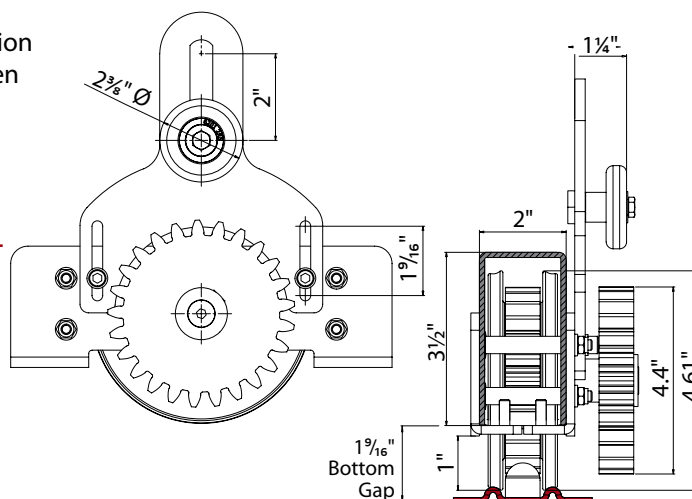


This wheel helps to keep the drive pinion from "jumping" out of the rack rail when moving down the track.

The wheel sits on two external profiles of the rack track for a smoother movement.

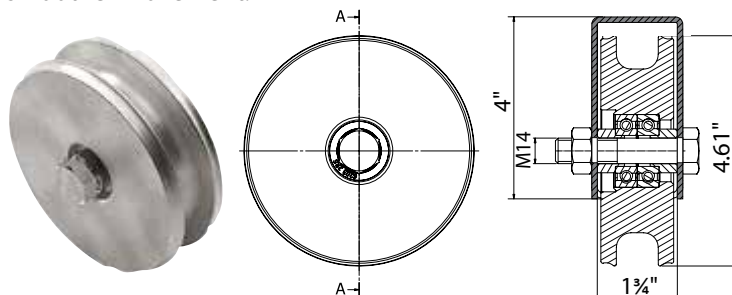
Wheel unit is made up of a principal pinion drive wheel, that when rolling on the rack track, generates the rotation of the external secondary pinion.

The movement via the second external pinion is transmitted to the rack mounted onto the side of the second gate leaf.



### Free wheel

The wheel rides on two external profiles of the track for so the gears in the track and pinion do not bind for a smoother movement.

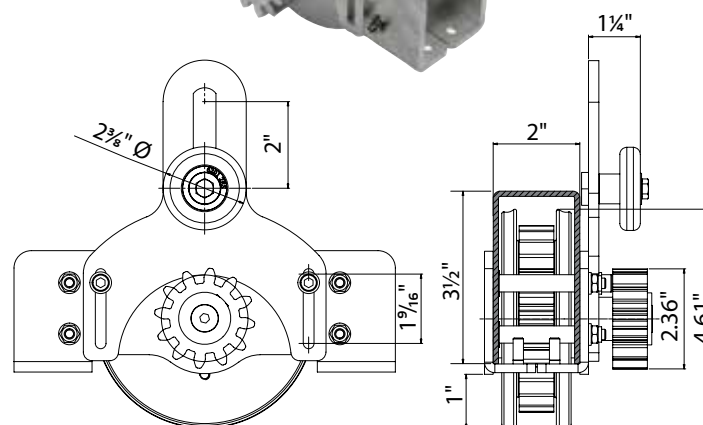
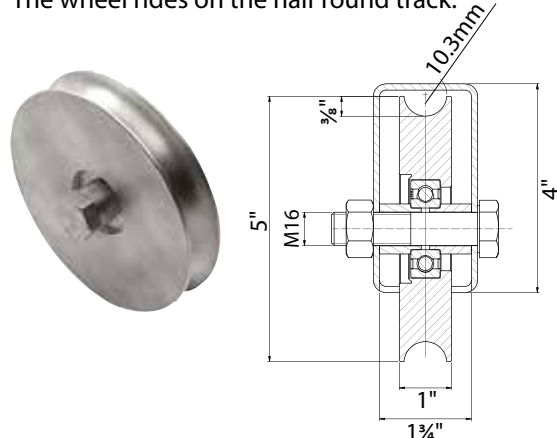


### Secondary drive wheel for 3 leaf systems.



### Standard wheel with half round groove

The wheel rides on the half round track.





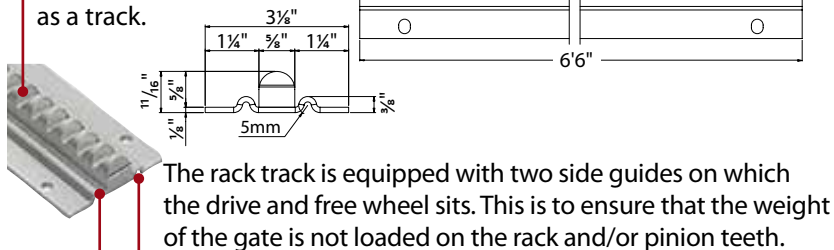
# RANGER TELESCOPING SLIDING GATE ACCESSORIES

## GROUND TRACK - CONNECTOR PIN - BRUSHES

### RG-30P

Galvanized rack track  
6'6" sections

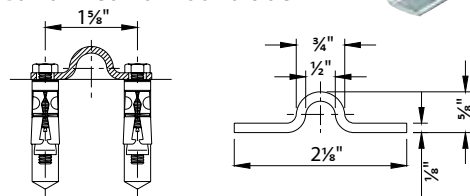
Movement is generated by the ground mounted rack that also functions as a track.



### 289G-19.68FT

### 289G-9.84FT

Galvanized half round track



### 291

Connection Pin



### RG-15

Cleaning Brush,  
2 per gate.

To be used with  
Rack Track  
(RG-30P)

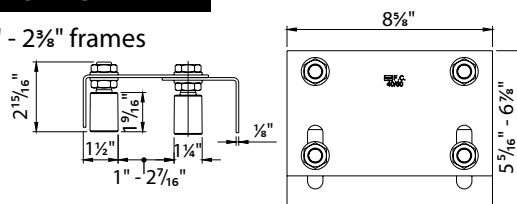
### 256-220

For up to - 3 3/8" frames



## UPPER GUIDES FOR 1ST LEAF

255-220-C - For 1 1/4" - 2 3/8" frames



## UPPER GUIDES FOR 2ND & 3RD LEAVES

### RG-387-19.68FT

Galvanized 1 1/4" U-Channel, 19'8"

### RG-387-9.84FT

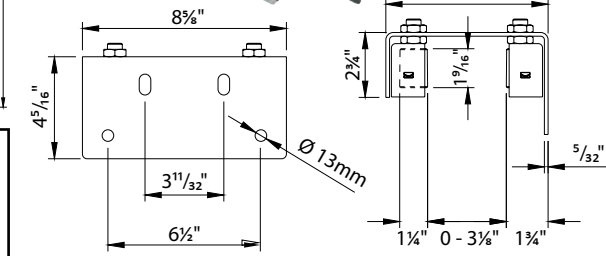
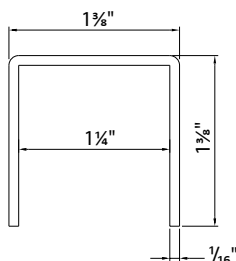
Galvanized 1 1/4" U-Channel, 9'10"

### CG-237-20FT

Aluminum 1 1/2" U-Channel, 20'

### CG-237-10FT

Aluminum 1 1/2" U-Channel, 10'



### RG-254

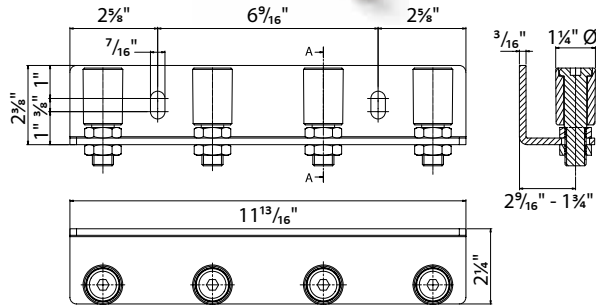
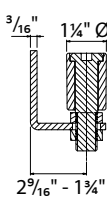
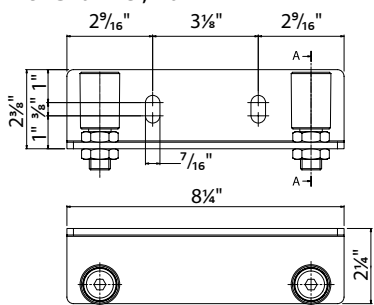
Guide plate  
for use with  
U-Channel



Comunello recommends this  
guide for added stability  
with changing wind  
speeds and smoother  
rolling gates.

### RG-252

Guide plate  
for use with  
U-Channel



## RECEIVER BRACKETS



### CG-15M

Adjustable  
mounting bracket



### CG-30M

Gate receiver,  
2" - 3" frame



Top cup gate receiver  
w/shock absorber

199-50 - 2" ID

199-60 - 2 3/8" ID

## GATE STOPS



### 202

Runaway stop  
Mounted via screws



### 202F-A

Damped runaway  
stop. Mounted via  
screws.

## ADAPTER



### CG-58

Drive Shaft Coupling. Use when  
connecting a gate operator to the  
principal drive wheel.

# RANGER TELESCOPING SLIDING GATE ACCESSORIES

## GATE AUTOMATION SPEED REDUCTION



### RG-40

Ranger speed reduction system

Highly recommended for 3 leaf systems

The RG-40 speed reducer cuts the speed of the first panel by 50%, to reduce the speed of 2 or 3 leaf Ranger telescoping gates. The gear box is mounted to the pad and connected directly to the rack on the first leaf. The motor is then coupled using the CG-58 adapter, directly to the speed reduction system drive shaft. Telescoping systems move twice or three times the speed of single gates, so reducing the speed of the leading edge is critical for safety.



### RG-45

Electromechanical limit switch

The RG-45 switches replace the limit switches that come with the gate operator. As the gate operator is moved back from the gate by several inches to fit the RG-40, the typical limit switches may not attach or work easily.

#### Specs:

- NC Normally Closed contact
- IP 67 Rated Enclosure
- 12/24V DC



## INSTALLATION TOOLS

Templates are purchased once and can be reused for subsequent installations.

### RG-10P

#### 2 template guide kit for Rack Track installation

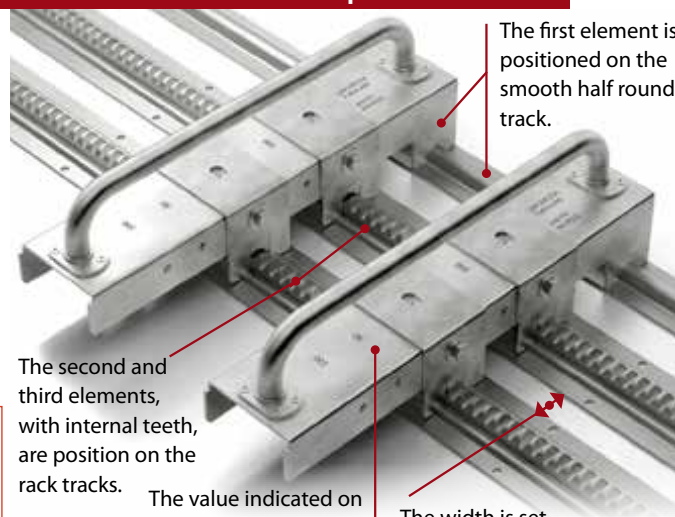
These alignment guide tools ensure a rapid and precise installation of the rack tracks that make up the 2 and 3 leaf telescoping systems. The smooth half round track (#289) is installed first, and is used as the reference for the proper parallel placement and alignment of the rack tracks. The two alignment guide tools are used to maintain the correct spacing between the tracks, according to the gate frame width value selected on the tools. These guides also ensure that the rack teeth are aligned and in sync when connecting additional rack track sections together.

#### GATE FOOTPRINT:

Two leaf systems take approx. 11" of space

Three leaf systems take approx. 15-1/2" of space

This **template guide** sets the spacing between the gate panels at 2-3/8" (60mm) for proper spacing alignment for the top guide wheels and drive rack and pinion combination. Set the template guide to 50 for 2" gate profiles as shown.



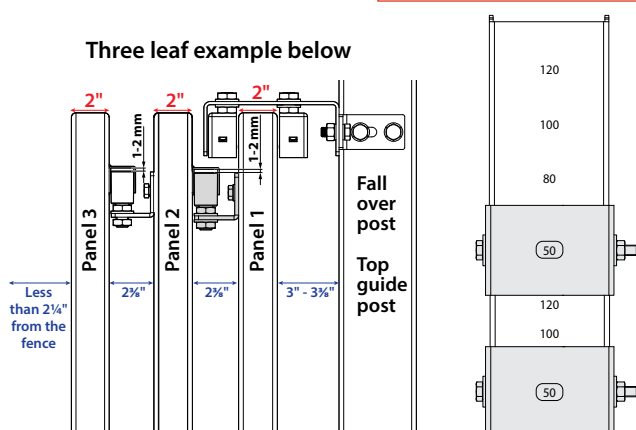
The first element is positioned on the smooth half round track.

The second and third elements, with internal teeth, are position on the rack tracks.

The value indicated on the template indicate the size of the gate frame. Use the setting "50" for 2" wide profiles.

The width is set according to the gate frame size used to construct the gate.

#### Three leaf example below



The rack track installation templates are used to ensure a precise and parallel alignment of the ground tracks, and can be width-regulated depending on the profile width of the gate frame tubing used in the construction of the gate. When joining two pieces of rack track, the precise position for the teeth can be achieved using the toothed element of the template guide, positioning it directly on the joint where the two pieces of track meet.



### RG-20

#### 2 template kit for wheel installation

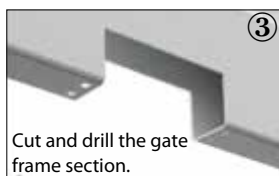
#### Steps for installing the gate wheels in the frame.



Using the template, mark the area to cut and drill.



The gate frame section is marked and ready to be cut.



Cut and drill the gate frame section.



The drive wheel is recessed into the cutout.