



# Igus® 2500 Cable / Hose Drag Chain

## Cable / Hose Drag Chain 2500 Series



### Overview

The igus 2500 series features a snap-open mechanism along the chain's outer radius to allow convenient access to the chain's channel after installation. The hinged crossbar can be swiveled by more than 180° on both sides. This feature allows for lightning-fast closure by hand and a secure fit without additional locking devices. This saves time by allowing cables and hoses to be added or replaced after chain installation and does not limit the installer to only pulling hose and cable through the chain.

The 2500 series is constructed of rugged igumid® G and will support and protect cables up to 23mm [0.91in] in diameter. End brackets provide a secure mounting point for chains and have cable tie strain relief tabs for securing cables and hoses. This series may be designed into systems requiring 2.25m [7.4ft] of unsupported spans and is capable of extending up to 100m [328ft] in a gliding configuration. The chain is packaged in chain lengths of 1m [3.2ft] (22 connected links) and may be shortened or extended by one or more links to fit the application.

### Features

- igumid® G material
- Chain length 1.0m [3.2ft]
- Pitch per link: 46mm [1.81in]
- Links per meter [foot]: 22 [6.71]
- V max. unsupported: 20 m/s [66 ft/s]
- V max. gliding: 10 m/s [33 ft/s]
- Material flammability rating of UL 94 HB
- Operating temperature -40° to 120°C [-40° to 248°F]
- Each package contains 22 chain links (required brackets sold separately)
- One or more links may be added/removed to extend/shorten the chain length



**2500-03-055**



**2500-05-075**



***Snap-open mechanism opens left or right more than 180°***



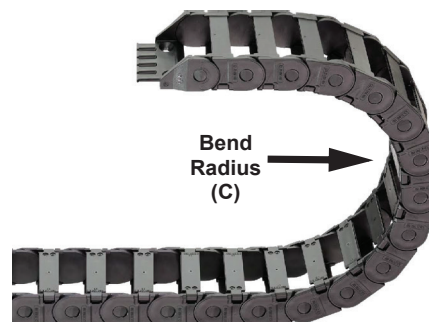
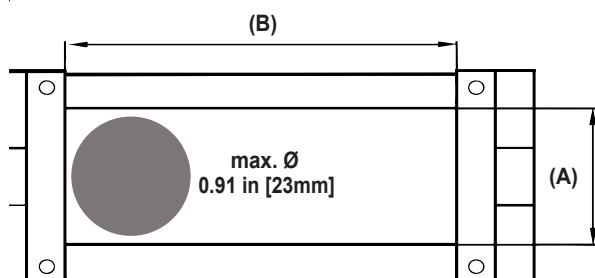
**2500-07-100**



**2500-10-125**



# Igus® 2500 Cable / Hose Drag Chain



Opening side - OUT only

**Cable / Hose Drag Chain Selection Chart 2500 Series**

| Part Number                 | Price   | Drawing Link        | Inside Height (A) |        | Inside Width (B) |        | Bend Radius (C) |        | Requires Mounting Bracket (sold separately)              |
|-----------------------------|---------|---------------------|-------------------|--------|------------------|--------|-----------------|--------|----------------------------------------------------------|
|                             |         |                     | mm                | in     | mm               | in     | mm              | in     |                                                          |
| <a href="#">2500-03-055</a> | \$59.00 | <a href="#">PDF</a> | 25mm              | 0.98in | 38mm             | 1.5in  | 55mm            | 2.16in | <a href="#">2030-34PZB</a> or <a href="#">2030-12PZB</a> |
| <a href="#">2500-03-075</a> | \$59.00 | <a href="#">PDF</a> | 25mm              | 0.98in | 38mm             | 1.5in  | 75mm            | 2.95in | <a href="#">2030-34PZB</a> or <a href="#">2030-12PZB</a> |
| <a href="#">2500-03-100</a> | \$59.00 | <a href="#">PDF</a> | 25mm              | 0.98in | 38mm             | 1.5in  | 100mm           | 3.94in | <a href="#">2030-34PZB</a> or <a href="#">2030-12PZB</a> |
| <a href="#">2500-03-125</a> | \$59.00 | <a href="#">PDF</a> | 25mm              | 0.98in | 38mm             | 1.5in  | 125mm           | 4.92in | <a href="#">2030-34PZB</a> or <a href="#">2030-12PZB</a> |
| <a href="#">2500-05-055</a> | \$64.00 | <a href="#">PDF</a> | 25mm              | 0.98in | 57mm             | 2.24in | 55mm            | 2.16in | <a href="#">2050-34PZB</a> or <a href="#">2050-12PZB</a> |
| <a href="#">2500-05-075</a> | \$64.00 | <a href="#">PDF</a> | 25mm              | 0.98in | 57mm             | 2.24in | 75mm            | 2.95in | <a href="#">2050-34PZB</a> or <a href="#">2050-12PZB</a> |
| <a href="#">2500-05-100</a> | \$64.00 | <a href="#">PDF</a> | 25mm              | 0.98in | 57mm             | 2.24in | 100mm           | 3.94in | <a href="#">2050-34PZB</a> or <a href="#">2050-12PZB</a> |
| <a href="#">2500-05-125</a> | \$64.00 | <a href="#">PDF</a> | 25mm              | 0.98in | 57mm             | 2.24in | 125mm           | 4.92in | <a href="#">2050-34PZB</a> or <a href="#">2050-12PZB</a> |
| <a href="#">2500-07-055</a> | \$69.00 | <a href="#">PDF</a> | 25mm              | 0.98in | 77mm             | 3.03in | 55mm            | 2.16in | <a href="#">2070-34PZB</a> or <a href="#">2070-12PZB</a> |
| <a href="#">2500-07-075</a> | \$69.00 | <a href="#">PDF</a> | 25mm              | 0.98in | 77mm             | 3.03in | 75mm            | 2.95in | <a href="#">2070-34PZB</a> or <a href="#">2070-12PZB</a> |
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| <a href="#">2500-07-125</a> | \$69.00 | <a href="#">PDF</a> | 25mm              | 0.98in | 77mm             | 3.03in | 125mm           | 4.92in | <a href="#">2070-34PZB</a> or <a href="#">2070-12PZB</a> |
| <a href="#">2500-10-055</a> | \$74.00 | <a href="#">PDF</a> | 25mm              | 0.98in | 103mm            | 4.06in | 55mm            | 2.16in | <a href="#">2100-34PZB</a> or <a href="#">2100-12PZB</a> |
| <a href="#">2500-10-075</a> | \$74.00 | <a href="#">PDF</a> | 25mm              | 0.98in | 103mm            | 4.06in | 75mm            | 2.95in | <a href="#">2100-34PZB</a> or <a href="#">2100-12PZB</a> |
| <a href="#">2500-10-100</a> | \$74.00 | <a href="#">PDF</a> | 25mm              | 0.98in | 103mm            | 4.06in | 100mm           | 3.94in | <a href="#">2100-34PZB</a> or <a href="#">2100-12PZB</a> |
| <a href="#">2500-10-125</a> | \$74.00 | <a href="#">PDF</a> | 25mm              | 0.98in | 103mm            | 4.06in | 125mm           | 4.92in | <a href="#">2100-34PZB</a> or <a href="#">2100-12PZB</a> |

Note: Each chain is 1.0 m [3.2 ft]



# Igus® 2500 Cable / Hose Drag Chain

## Cable / Hose Drag Chain Brackets 2500 Series

### Overview

The chain end brackets are made of black polyamide (PA). The end brackets are precisely adjusted to the respective chain width and only need to be snapped into each end of the chain. Please order one bracket kit that includes (1) male and (1) female end bracket for each chain system. The brackets should be fastened with M6 screws (not included). Both pivoting and locking brackets are built for locking connections with tie-wrap plates. Pivoting brackets are great for unsupported and gliding applications. Non-pivoting (locking) brackets are excellent for vertical hanging/standing installations, restricted installation spaces, and extreme accelerations.

| 2500 Series Locking Brackets |         |               |        |              |        |                     |
|------------------------------|---------|---------------|--------|--------------|--------|---------------------|
| Part Number                  | Price   | Inside Height |        | Inside Width |        | Drawing Link        |
|                              |         | mm            | in     | mm           | in     |                     |
| <a href="#">2030-12PZB</a>   | \$20.00 | 25mm          | 0.98in | 38mm         | 1.5in  | <a href="#">PDF</a> |
| <a href="#">2050-12PZB</a>   | \$22.00 | 25mm          | 0.98in | 57mm         | 2.24in | <a href="#">PDF</a> |
| <a href="#">2070-12PZB</a>   | \$23.00 | 25mm          | 0.98in | 77mm         | 3.03in | <a href="#">PDF</a> |
| <a href="#">2100-12PZB</a>   | \$25.00 | 25mm          | 0.98in | 103mm        | 4.06in | <a href="#">PDF</a> |

Note: Mounting hardware not included.

| 2500 Series Pivoting Brackets |         |               |        |              |        |                     |
|-------------------------------|---------|---------------|--------|--------------|--------|---------------------|
| Part Number                   | Price   | Inside Height |        | Inside Width |        | Drawing Link        |
|                               |         | mm            | in     | mm           | in     |                     |
| <a href="#">2030-34PZB</a>    | \$20.00 | 25mm          | 0.98in | 38mm         | 1.5in  | <a href="#">PDF</a> |
| <a href="#">2050-34PZB</a>    | \$22.00 | 25mm          | 0.98in | 57mm         | 2.24in | <a href="#">PDF</a> |
| <a href="#">2070-34PZB</a>    | \$23.00 | 25mm          | 0.98in | 77mm         | 3.03in | <a href="#">PDF</a> |
| <a href="#">2100-34PZB</a>    | \$25.00 | 25mm          | 0.98in | 103mm        | 4.06in | <a href="#">PDF</a> |

Note: Mounting hardware not included.



Locks at 0° or 90°

[2030-12PZB](#)



Pivots 48° to 90°

\*See design guide for details

[2030-34PZB](#)

## Cable / Hose Drag Chain Separators 2500 Series

### Overview

Made from black polyamide (PA), these separators are commonly used with the Igus 2500 E-chain to keep cables and hoses organized, prevent wear, and extend their lifespan. They are particularly useful in dynamic and side-mounted applications. A general design guideline is to install a separator in every other E-chain link.

| 2500 Series Separators  |        |               |        |          |                     |
|-------------------------|--------|---------------|--------|----------|---------------------|
| Part Number             | Price  | Inside Height |        | Quantity | Drawing Link        |
|                         |        | mm            | in     |          |                     |
| <a href="#">25.1-12</a> | \$7.00 | 25mm          | 0.98in | 12       | <a href="#">PDF</a> |

Note: For a standard configuration where cable segregation is needed, separators are assembled every other e-chain link.



[25.1-12](#)



# Igus® 2500 Cable / Hose Drag Chain

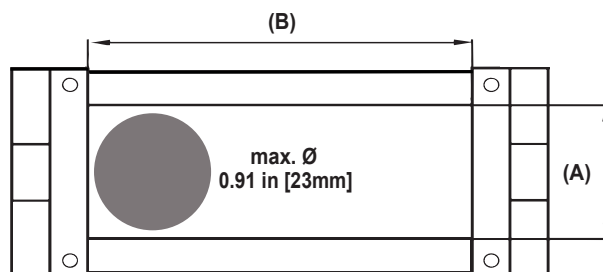
## 2500 Series Design Guide

The following Design Guide section walks through 7 steps to select the correct part numbers and to optimize drag chain system design. Drag chain inside width requirement, bend radius, maximum unsupported length, and stroke length will be calculated. In step 4, generalized tables are provided for reference. The intention of these tables is to provide conservative estimates of cable linear weight; the designer should consult manufacturer cable specification sheets to verify cable specifications.

### Step 1: Part Number Selection – Inside Width

- Verify cable outer diameter (OD) is less than 0.91in [23mm]

| Cable / Hose Drag Chain Selection Chart 2500 Series |                   |        |                  |        |                 |        |
|-----------------------------------------------------|-------------------|--------|------------------|--------|-----------------|--------|
| Part Number                                         | Inside Height (A) |        | Inside Width (B) |        | Bend Radius (C) |        |
|                                                     | mm                | in     | mm               | in     | mm              | in     |
| <a href="#">2500-03-055</a>                         | 25mm              | 0.98in | 38mm             | 1.5in  | 55mm            | 2.16in |
| <a href="#">2500-03-075</a>                         | 25mm              | 0.98in | 38mm             | 1.5in  | 75mm            | 2.95in |
| <a href="#">2500-03-100</a>                         | 25mm              | 0.98in | 38mm             | 1.5in  | 100mm           | 3.94in |
| <a href="#">2500-03-125</a>                         | 25mm              | 0.98in | 38mm             | 1.5in  | 125mm           | 4.92in |
| <a href="#">2500-05-055</a>                         | 25mm              | 0.98in | 57mm             | 2.24in | 55mm            | 2.16in |
| <a href="#">2500-05-075</a>                         | 25mm              | 0.98in | 57mm             | 2.24in | 75mm            | 2.95in |
| <a href="#">2500-05-100</a>                         | 25mm              | 0.98in | 57mm             | 2.24in | 100mm           | 3.94in |
| <a href="#">2500-05-125</a>                         | 25mm              | 0.98in | 57mm             | 2.24in | 125mm           | 4.92in |



A: Inside Height  
B: Inside Width

### Step 2: Part Number Selection – Bend Radius

- Determine the **minimum cable bend radius**
  - Located on the cable/hose supplier specification
- Determine the **drag chain bend radius**
  - Located in the [technical specification](#)
- Select drag chain part number
  - Drag Chain bend radius (C) > Minimum cable bend radius

|                       |                                                                                                                                 |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Conductor & Stranding | 0.5 mm <sup>2</sup> (20AWG) 16/32 bare copper                                                                                   |
| Voltage Ratings       | 600V per UL<br>Tested to 2000V                                                                                                  |
| Min. Bend Radius      | e-Chain®, 6.8 x diameter<br>Flexible*, 5.0 x diameter<br>Fixed, 4.0 x diameter                                                  |
| Temperature Ratings   | e-Chain, +41°F to +158°F (5°C to +70°C)<br>Flexible*, +23°F to +158°F (-5°C to +70°C)<br>Fixed, +5°F to +158°F (-15°C to +70°C) |

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#### igus® 0.5 mm<sup>2</sup> (20AWG) Flexible Cable CF5 Series Uns

| 0.5 mm <sup>2</sup> (20AWG) Multi-Conductor Flexing Control Cable Specifications |                                                                                                                                 |                      |  |
|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------|--|
| Conductors Gauge & Stranding                                                     | 0.5 mm <sup>2</sup> (20AWG) 16/32 bare copper                                                                                   | Conductor Insulation |  |
| Voltage Ratings                                                                  | 600V per UL<br>Tested to 2000V                                                                                                  | Conductor Markings   |  |
| Min. Bend Radius                                                                 | e-Chain®, 6.8 x diameter<br>Flexible*, 5.0 x diameter<br>Fixed, 4.0 x diameter                                                  | Outer Jacket         |  |
| Temperature Ratings                                                              | e-Chain, +41°F to +158°F (5°C to +70°C)<br>Flexible*, +23°F to +158°F (-5°C to +70°C)<br>Fixed, +5°F to +158°F (-15°C to +70°C) | UV Resistance        |  |
| Max. Velocity                                                                    | Sliding, 33 ft/s (10 m/s)<br>Giding, 16 ft/s (5 m/s)                                                                            | Oil Resistance       |  |
| Max. Acceleration                                                                | 262.5 ft/s <sup>2</sup> (80 m/s <sup>2</sup> )                                                                                  | Flame Retardant      |  |
| Length of Travel                                                                 | Unsupported travel distances and for sliding applications up to 328 ft (100m)                                                   | Approvals            |  |
| Version                                                                          | 100' relation with 3.281 ft (1m) of cable length                                                                                | Sample Print Legend  |  |

\* Per EN 60911-504 standard

e-Chain® is a trademarked flexible cable carrier by igus®. igus® cable can be used in any suitable cable carrier.

| 0.5 mm <sup>2</sup> (20AWG) Multi-Conductor Flexing Control Cable |                                        |     |                            |
|-------------------------------------------------------------------|----------------------------------------|-----|----------------------------|
| Part Number                                                       | Number of Conductors (includes ground) | AWG | Strand                     |
|                                                                   |                                        |     | Maximum O.D. (Inches ±10%) |
|                                                                   |                                        |     | Minimum Cat Length (ft)    |

| Cable / Hose Drag Chain Selection Chart 2500 Series |                   |        |                  |        |                 |        |
|-----------------------------------------------------|-------------------|--------|------------------|--------|-----------------|--------|
| Part Number                                         | Inside Height (A) |        | Inside Width (B) |        | Bend Radius (C) |        |
|                                                     | mm                | in     | mm               | in     | mm              | in     |
| <a href="#">2500-07-055</a>                         | 25mm              | 0.98in | 77mm             | 3.03in | 55mm            | 2.16in |
| <a href="#">2500-07-075</a>                         | 25mm              | 0.98in | 77mm             | 3.03in | 75mm            | 2.95in |
| <a href="#">2500-07-100</a>                         | 25mm              | 0.98in | 77mm             | 3.03in | 100mm           | 3.94in |
| <a href="#">2500-07-125</a>                         | 25mm              | 0.98in | 77mm             | 3.03in | 125mm           | 4.92in |
| <a href="#">2500-10-055</a>                         | 25mm              | 0.98in | 103mm            | 4.06in | 55mm            | 2.16in |
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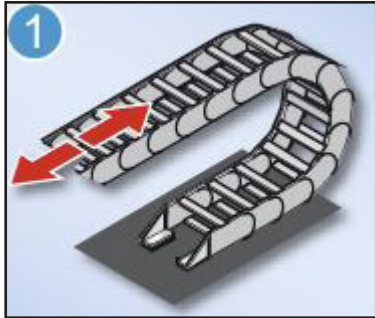


# Igus® 2500 Cable / Hose Drag Chain

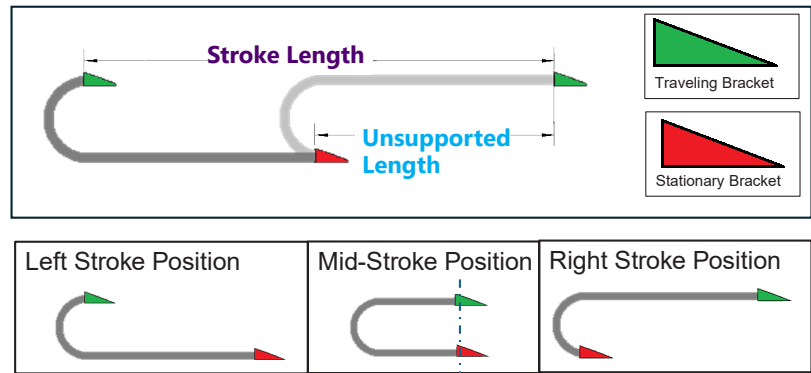
## Step 3: Stroke Length – Unsupported

Determine **Stroke Length ( $L_s$ )**

- **Stroke Length** = 2 x **Unsupported Length**



Steps 3, 4, and 5 apply to Installation Options 1, 7, and 8 - see the Installation Options page below.



Vertically aligning the **Traveling Bracket** and **Stationary Bracket** at the mid stroke position will reduce the length of chain needed and may reduce system wear due to extra mass.

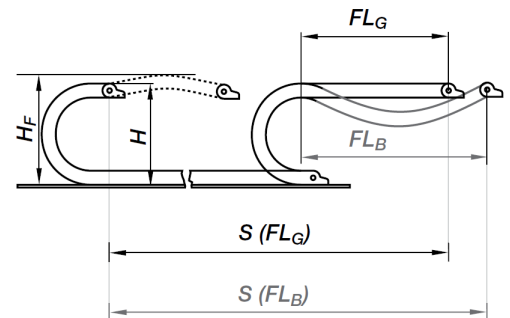
## Step 4: Max Stroke Length – Unsupported

**4a:** Determine cable fill linear weight

- Use cable spec sheets to add linear weights
- Use table below for estimating linear weights

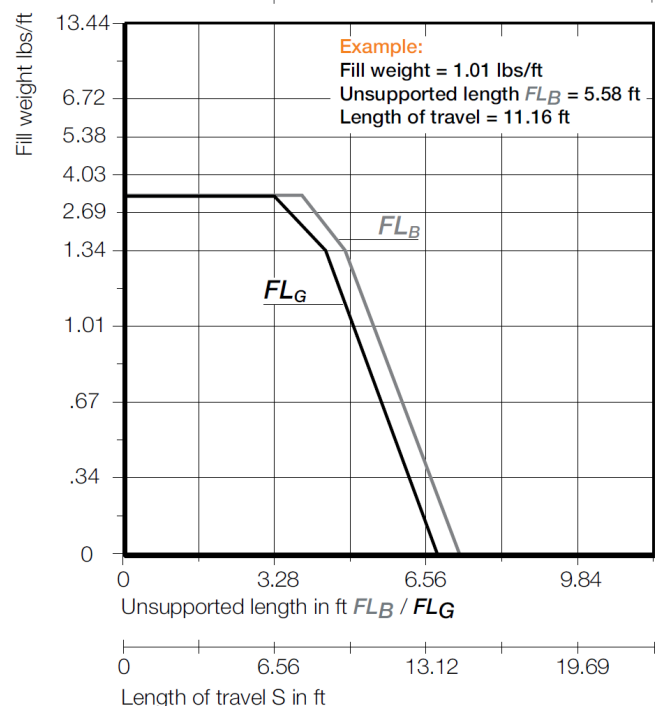
**4b:** Determine linear weight vs max unsupported distance

- Unsupported chains will experience less wear if chain sag is less than 17.5mm [0.69in]
- Sag will increase as unsupported length and/or weight are increased
- Refer to the chart to determine maximum conditions



| Cable Drag Chain Max Stroke Length |                       |                        |                                                      |             |             |           |
|------------------------------------|-----------------------|------------------------|------------------------------------------------------|-------------|-------------|-----------|
| Cable Type                         | Outer Diameter (inch) | Linear Weight (lbs/ft) | MAX Stroke Length [ft] (2x max unsupported distance) |             |             |           |
|                                    |                       |                        | Single Fill                                          | Double Fill | Triple Fill | Quad Fill |
| Ethernet                           | < 0.25                | < 0.034                | 13.3                                                 | 13.2        | 13.1        | 13.0      |
|                                    | 0.25 - 0.315          | < 0.053                | 13.3                                                 | 13.1        | 12.9        | 12.7      |
| Control/VFD Cable                  | < 0.25                | < 0.044                | 13.3                                                 | 13.2        | 13.0        | 12.8      |
|                                    | 0.25 - 0.32           | < 0.074                | 13.2                                                 | 12.9        | 12.7        | 12.4      |
|                                    | 0.32 - 0.40           | < 0.132                | 13.0                                                 | 12.5        | 12.1        | 11.6      |
|                                    | 0.40 - 0.45           | < 0.180                | 12.8                                                 | 12.2        | 11.6        | 10.9      |
|                                    | 0.45 - 0.50           | < 0.211                | 12.7                                                 | 12.0        | 11.2        | 10.5      |
|                                    | 0.50 - 0.55           | < 0.271                | 12.5                                                 | 11.6        | 10.6        | 9.6       |
|                                    | 0.55 - 0.59           | < 0.328                | 12.3                                                 | 11.2        | 10.0        | 8.8       |
|                                    | 0.60 - 0.69           | < 0.392                | 12.1                                                 | 10.7        | 9.3         | 7.9       |
|                                    | .70 - .79             | < 0.42                 | 12.0                                                 | 10.5        | 9.0         | 7.5       |

Note: For managing hoses, consult the hose manufacturer for diameter and weights.



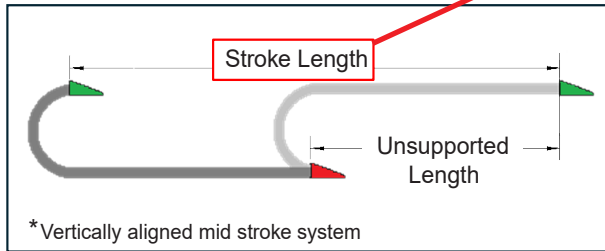


# Igus® 2500 Cable / Hose Drag Chain

## Step 5: Chain Length – Unsupported

Each drag chain part number is 3.2 ft [1m] in length (22 links) and additional links may be added to extend the chain.

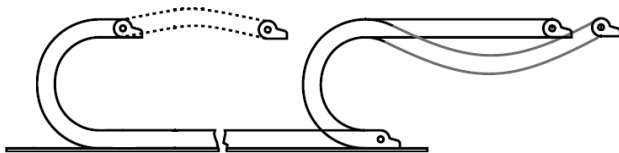
$$\text{Chain length} = \frac{1}{2} \text{ Stroke Length} + (3.14 \times \text{Bend Radius})$$



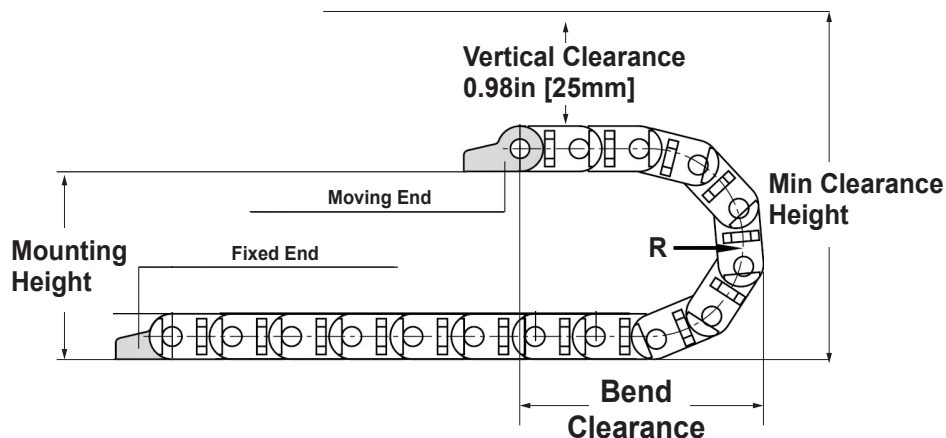
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|-----------------------------------------------------|-------------------|--------|------------------|--------|-----------------|--------|
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|                                                     | mm                | in     | mm               | in     | mm              | in     |
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| <a href="#">2500-10-125</a>                         | 25mm              | 0.98in | 103mm            | 4.06in | 125.00          | 4.92in |

## Step 6: Drag Chain Mounting

- Mounting height of traveling bracket is specified for each chain bend radius
- Vertical clearance must be maintained to account for chains bowing height of unloaded chains
- See the following page for installation options



| Drag Chain Mounting Selection Chart |      |                 |      |                       |      |                |      |
|-------------------------------------|------|-----------------|------|-----------------------|------|----------------|------|
| Radius R                            |      | Mounting Height |      | Min. Clearance Height |      | Bend Clearance |      |
| mm                                  | in   | mm              | in   | mm                    | in   | mm             | in   |
| 55                                  | 2.16 | 36              | 1.42 | 60                    | 2.36 | 40             | 1.57 |
| 75                                  | 1.10 | 56              | 2.20 | 80                    | 3.15 | 50             | 1.97 |
| 38                                  | 1.50 | 76              | 2.99 | 100                   | 3.94 | 60             | 2.36 |
| 48                                  | 1.89 | 96              | 3.78 | 120                   | 4.72 | 70             | 2.76 |
| 58                                  | 2.28 | 116             | 4.57 | 140                   | 5.51 | 80             | 3.15 |

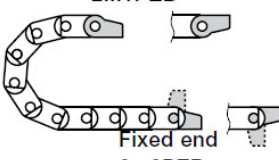
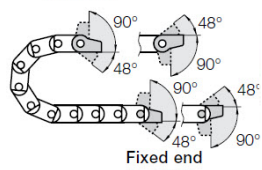
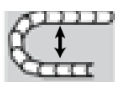
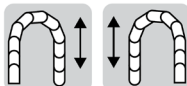




# Igus® 2500 Cable / Hose Drag Chain

## Step 7: Brackets

- Mounting height of traveling bracket is specified for each chain bend radius
- Vertical clearance must be maintained to account for chains bowing height of unloaded chains

| Bracket Design Guide                     |                                                                                     |                                                                                                                                                 |                                                                                                                                                  |
|------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Applications and Features                |                                                                                     | Pivoting Bracket                                                                                                                                | Locking Bracket                                                                                                                                  |
|                                          |                                                                                     | <p>Moving end<br/>2...1PZB</p>  <p>Fixed end<br/>2...2PZB</p> | <p>Moving end<br/>2...3PZB</p>  <p>Fixed end<br/>2...4PZB</p> |
| Horizontal Unsupported                   |    | +                                                                                                                                               | +                                                                                                                                                |
| Horizontal Gliding                       |   | +                                                                                                                                               | +                                                                                                                                                |
| Detachable Strain Relief Cable Tie Plate |  | Included                                                                                                                                        | Included                                                                                                                                         |
| Speed and Acceleration                   |  | +                                                                                                                                               | ++                                                                                                                                               |
| Low Profile Height                       |  | +                                                                                                                                               | ++                                                                                                                                               |
| Vertical Installation                    |  | +                                                                                                                                               | ++                                                                                                                                               |

Key: + = Good; ++ = Better



# Igus® 2500 Cable / Hose Drag Chain

## Installation Options For Cable / Hose Drag Chains

