K Series

Cost-effective, heavy-duty cable carrier – also suitable for large additional loads

- TÜV design approved in accordance with 2 PfG 1036/10.97

- Enclosed stroke system provides protection from dirt/contamination
- Injection molded glide runners
- Optional C-Rail for strain relief elements
- Universal Mounting Brackets (UMB)
- Glide discs for longer life in side-mount gliding operation
- Minimized hinge wear thanks to the “life extending 2 disc principle”
- KE Plastic stays available in custom widths of 8 or 16 mm width increments
- KC Aluminum stays available in the width you require to the exact mm
- Many cavity partitioning options for separating and organizing cables & hoses
- Dividers can be fixed in place

Can be opened quickly on the inside and outside for easy cable and hose installation and service

Extremely robust thanks to heavy-duty sideband construction

Specifications are subject to change without notice.
Specifications are subject to change without notice.

KSA-L15015-GC

14

VARITRAK K

VARIO-LINE

CL

Total Machine Travel (L_s)

Extended

Retracted

Moving End

t = Link Pitch

K0650 = 2.56 (65)

Dimensions in inches (mm)

Technical Data

Series

K 0650

Mounting Height

H

Bend Radius

KR

Depot

U_B

Loop Length

L_B

Option A

8.07 (205)

2.95 (75)

6.61 (168)

14.41 (366)

Option B

11.22 (285)

4.53 (115)

8.19 (208)

19.37 (492)

Option C

13.58 (345)

5.71 (145)

9.37 (238)

23.07 (586)

Option D

15.94 (405)

6.89 (175)

10.55 (268)

26.77 (680)

Option E

19.49 (495)

8.66 (220)

12.32 (313)

32.36 (822)

Option F

24.79 (655)

11.81 (300)

15.47 (393)

42.24 (1073)

Calculation of Chain Length

L_s = total machine travel

L_B = 3.14 x KR + (2 x t safety factor)

L_K = chain length required

L_K = L_s ÷ 2 + length of the curve (L_B)*

* Assumes the Fixed Point is located at the Center of the Total Machine Travel.

Self-Supporting Lengths

For more information on extended travel systems, see pages 02.27 - 02.36

How To Order

1-800-443-4216

How To Order

1-800-443-4216

Number of Systems Req. x Carrier Type + Cavity Width (B_i) + Type Frame Stay + Bend Radius x # of Links Length + Type & Position Brackets + Dividers (vert / horz)

8 x KC0650 - 8.00” - RS - 75 x 35 Links + FU/MU + 2v/0h

Specifications are subject to change without notice.

www.kableschlepp.com/varitrakk.htm

VARITRAK K

14
LG Bar System

Features bolted-on heavy-duty split and bored aluminum bars.

Bar Widths (B<sub>st</sub>) are available from 2.50” (63.5 mm) through 23.50” (596.9 mm) in any width increment required by the customer.

**K0650 - 2.50” - LG - (# of links) - (# of brackets) - (# of holes)**

**K0650 - 23.50” - LG - (# of links) - (# of brackets) - (# of holes)**

**Why use LG system**

- By simply unscrewing 1 bolt per split-bar at either end of each bar and sliding out the upper half of the split-bar, cables & hoses can be easily installed (laid inside, in each specifically designed 1/2 round).
- Ideal when unique cables and hoses must be individually separated.
- Extremely rugged bolted-on bar construction forms an exceptionally strong “collar” around individual contents that resists twisting and deformation under load.
- Smooth, cable friendly and strong aluminum bar design that is made to match the individual cable and/or hose sizes and types. Cable manufacturers’ favorite frame stay system.
- Quick and easy in-field service from either the inside radius or the outside radius.
- Exact widths are available to fit any application’s width restrictions.

**Specifications**

- B<sub>st</sub> = Cut bar length
- B<sub>k</sub> = Outer chain width
- B<sub>EF</sub> = Outer chain width with optional glide buttons installed
- BhG = Split aluminum bar height
- hG = Outer chain link height
- D<sub>max</sub> = Maximum hole diameter
- C<sub>min</sub> = Minimum distance between holes
- a<sub>0min</sub> = Minimum hole offset from end

**Mounting Bracket Options**

For detailed drawings and dimensions of available options, please see pages: 14.08 - 14.09

Need help? 1-800-443-4216 or www.kabelschlepp.com
**RS Bar System**

Features twist in/out aluminum bars on both the inner and outer radius per frame stay.

Usable Cavity Widths ($B_i$) are available from **2.00” (50.8 mm)** through **15.00” (381 mm)**.

Ten **standard width** sizes are available from stock. **Custom widths** are also available in any width increment required by the customer.

---

### KC0650 - 2.00” - RS - (# of links) - (brackets) - (dividers)

<table>
<thead>
<tr>
<th>Models</th>
<th>Minimum Width</th>
<th>Maximum Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>KC0650 - 2.00”</td>
<td>$B_i = 2.00$ (50.8)</td>
<td>$B_i = 3.10$ (78.8)</td>
</tr>
<tr>
<td></td>
<td>$h_G = 2.26$ (57.5)</td>
<td>$h_i = B_k = B_i + 1.10$ (28)</td>
</tr>
</tbody>
</table>

**Note:** For extended widths, multiple chain-band designs are available, please consult factory: 1-800-443-4216

---

### KC0650 - 15.00” - RS - (# of links) - (brackets) - (dividers)

<table>
<thead>
<tr>
<th>Models</th>
<th>Minimum Width</th>
<th>Maximum Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>KC0650 - 15.00”</td>
<td>$B_i = 15.00$ (381)</td>
<td>$B_i = 16.10$ (409)</td>
</tr>
<tr>
<td></td>
<td>$h_G = 2.26$ (57.5)</td>
<td>$h_i = B_k = B_i + 1.42$ (36)</td>
</tr>
</tbody>
</table>

**Note:** For extended widths, multiple chain-band designs are available, please consult factory: 1-800-443-4216

---

**Why use RS system**

- Simply by twisting on or twisting off the aluminum bar 90 degrees, cables & hoses can be quickly and easily installed (laid inside).
- Ideal when light weight and cost effective designs are required.
- Twist-in locking bars on the inside and outside radius form an extremely strong “box” compartment around the contents.
- Smooth, cable friendly and strong aluminum bars.
- Quick and easy in-field service.
- Quick and easy in-field service from either the inside radius or the outside radius.
- Rolling round Delrin® sleeves can be added to RS bars for additional protection of hoses (consult factory).

---

**RS System Assembly Detail**

**Mounting Bracket Options**

For detailed drawings and dimensions of available options, please see pages: 14.08 - 14.09

Specifications are subject to change without notice.
### Easy Snap-In Cavity Partitioning for Varitrak KC 0650 RS Bar System

When multiple cables/hoses or cables/hoses with different diameters are to be placed inside the same carrier system and require vertical stacking, a simple to install snap-in cavity partitioning system should be used. This system easily allows for varying carrier system cavity compartment heights (shelves) and widths (dividers) necessary to properly accommodate each cable or hose.

#### Dimension

<table>
<thead>
<tr>
<th>Part Number</th>
<th>A</th>
<th>B</th>
<th>C</th>
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</thead>
<tbody>
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<td>0.16 (4.5)</td>
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<tr>
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<td>0.16 (4)</td>
</tr>
<tr>
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<td>71516</td>
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<td>0.16 (4.5)</td>
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</tr>
</tbody>
</table>

Specifications are subject to change without notice.
**KE0650 - 68mm - RE - (KR) - (# of links) - (brackets) - (dividers)**

**RE Bar System**

Features two twist-in/twist-out glass fiber reinforced nylon bars per frame stay.

**Usable Cavity Widths** ($B_i$) are available from 2.68” (68 mm) through 10.24” (260 mm) in 25 width options sized in even increments of 0.32” (8 mm).

Available Cavity Widths ($B_i$) = 2.68 (68), 2.99 (76), 3.31 (84), 3.62 (92), 3.94 (100), 4.25 (108), 4.57 (116), 4.88 (124), 5.20 (132), 5.51 (140), 5.83 (148), 6.14 (156), 6.46 (164), 6.77 (172), 7.09 (180), 7.40 (188), 7.72 (196), 8.03 (204), 8.35 (212), 8.66 (220), 8.98 (228), 9.29 (236), 9.61 (244), 9.92 (252), 10.24 (260) (width sizes shown in blue are from stock).

**Why use RE system**

- By simply twisting on or twisting off the glass fiber reinforced nylon bars 90 degrees, cables & hoses can be quickly and easily installed (laid inside).
- Dividers can either be installed so they can be slid into position or locked in place.
- Ideal when ultra-light weight and cost effective designs are required.
- By using the twist-in snap locking bar construction, a strong "box" compartment is formed surrounding the contents.
- Versatile, light and rugged nylon bars.
- Quick and easy in-field service from either the inside radius or the outside radius.
- Widths are available to fit any application’s width restrictions in 0.32” (8 mm) increments.

**Mounting Bracket Options**

For detailed drawings and dimensions of available options, please see pages: 14.08 - 14.09
Easy Snap-In Cavity Partitioning for Varitrak KE 0650 RE Bar System

When multiple cables/hoses or cables/hoses with different diameters are to be placed inside the same carrier system and require vertical stacking, a simple to install snap-in cavity partitioning system should be used. This system easily allows for varying carrier system cavity compartment heights (shelves) and widths (dividers) necessary to properly accommodate each cable or hose.

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</tr>
</tbody>
</table>

Horizontal shelves can be easily pressed and locked into place between the specially designed RE vertical dividers. This makes horizontal and vertical partitioning of the carrier’s cavity easy to install and highly flexible to meet your application’s unique needs.
### K 0650 Wedge Style Mounting Brackets

**Mounting Bracket Dimensions**

Wedge Style Brackets made of nylon

Optionally available with C-Channel, slot width 11–12 mm. Fits commercial saddle type clamps with small base and KabelClamp SZL strain relief clamps. (see cable carrier accessories)

### Ordering Wedge Type Brackets

**Bracket End**

- **F** - Fixed End
- **M** - Moving End

**Bracket Type and Orientation**

- **A** - wedge type bracket with mounting surface facing the outside radius (standard)
- **I** - wedge type bracket with mounting surface facing the inside radius (toward KR)

Examples: **FA/MA**  **FI/MI**

### Example Wedge Type Mounting Bracket Positions

<table>
<thead>
<tr>
<th>Bracket Type</th>
<th>Orientation</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>FA/MA</td>
<td>M</td>
<td>MA</td>
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<tr>
<td>FA/MI</td>
<td>A</td>
<td>MI</td>
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<tr>
<td>FI/MI</td>
<td>I</td>
<td>MI</td>
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</table>

### Fixed End Brackets

<table>
<thead>
<tr>
<th>Connection</th>
<th>Dimensions</th>
</tr>
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<tbody>
<tr>
<td>FA (Standard)</td>
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<tr>
<td>FI</td>
<td><img src="image2" alt="Diagram" /></td>
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### Moving End Brackets

<table>
<thead>
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<th>Connection</th>
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<tr>
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<td><img src="image3" alt="Diagram" /></td>
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<tr>
<td>MI</td>
<td><img src="image4" alt="Diagram" /></td>
</tr>
</tbody>
</table>

**Specifications are subject to change without notice.**

KSA-L15015-GC
K 0650 Universal Style Mounting Brackets

Mounting Bracket Dimensions
Universal KSA Style Brackets made of nylon

Optionally available with C-Channel, slot width 11–12 mm. Fits commercial saddle type clamps with small base and KabelClamp SZL strain relief clamps. (see cable carrier accessories)

Ordering Universal Type Brackets

Bracket End
F - Fixed End
M - Moving End

Bracket Type and Orientation
U - Universal KSA Style Bracket

The bracket type and orientation at the Fixed End and at the Moving End can be combined and subsequently changed if required.

Please state the desired connection type and orientation when ordering.

Examples: FU/MU or different types of brackets can be used at each end of the chain i.e. FU/MA
**Specifications are subject to change without notice.**

---

### VARITRAK K

#### Series

<table>
<thead>
<tr>
<th>Option</th>
<th>Mounting Height</th>
<th>Bend Radius</th>
<th>Depot Length</th>
<th>Loop Length</th>
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<tbody>
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<td>A</td>
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<td>5.12 (130)</td>
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<td>B</td>
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<tr>
<td>C</td>
<td>22.28 (566)</td>
<td>9.65 (245)</td>
<td>14.69 (373)</td>
<td>37.40 (950)</td>
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<td>D</td>
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<td>E</td>
<td>33.31 (846)</td>
<td>15.16 (385)</td>
<td>20.20 (513)</td>
<td>54.72 (1390)</td>
</tr>
</tbody>
</table>

- **Mounting Height (H)**: The height at which the carrier system is mounted.
- **Bend Radius (KR)**: Represents the radius of the bend in the carrier system.
- **Depot Length (UB)**: Distance from the beginning of the travel to the start of the depot.
- **Loop Length (LB)**: Distance from the end of the depot to the end of the travel cycle.

#### How To Order

**1-800-443-4216**

**Number of Systems**

- **4 x KC0900 - 10.00” - RS - 190 x 100 Links + FA/MA + 3v/1h**

---

**Technical Data**

**Dimensions in inches (mm)**

- **Type K0900**
- **Mounting Height**: 13.23 (336 mm)
- **Bend Radius**: 5.12 (130 mm)
- **Depot Length**: 10.16 (258 mm)
- **Loop Length**: 23.19 (589 mm)

**Additional Load Support**

- **Unsupported Length**:
  - **Type K0900**
  - **Maximum Unsupported Length**:
    - **3.3 ft (1 m)**: 40 lbs (18 kg)
    - **6.6 ft (2 m)**: 30 lbs (14 kg)
    - **9.8 ft (3 m)**: 20 lbs (9 kg)
    - **13.1 ft (4 m)**: 10 lbs (5 kg)
    - **16.4 ft (5 m)**: 0 lbs (0 kg)

**Extended Travel**

- When application travel exceeds the self-supporting length of the carrier, Varitrak K carrier systems are designed to glide on themselves in a guide-channel.

---

**EVA Value**

A product group’s EVA score is a general indicator that allows a customer to quickly and easily compare a product group’s basic price, features, capabilities and value relative to other comparably sized products within the KS product range.
**Features**
Twist in/out aluminum bars on both the inner and outer radius per frame stay.

Usable Cavity Widths ($B_i$) are available from **3.00” (76.2 mm)** through **16.00” (406.4 mm)**.

Ten **standard width** sizes are available from stock. **Custom widths** are also available in any width increment required by the customer.

**RS Bar System**

**KC0900 - 3.00” - RS - (# of links) - (brackets) - (dividers)**

**Recommended MINIMUM Width**

Optional replaceable glide buttons are available to extend system life in side-mount applications or in guide channels. Consult factory for details.

**KC0900 - 16.00” - RS - (# of links) - (brackets) - (dividers)**

**Recommended MAXIMUM Width**

**Why use RS system**

- Simply by twisting on or twisting off the aluminum bar 90 degrees, cables & hoses can be quickly and easily installed (laid inside).
- Ideal when light weight and cost effective designs are required.
- Twist-in locking bars on the inside and outside radius form an extremely strong “box” compartment around the contents.
- Smooth, cable friendly and strong aluminum bars.
- Quick and easy in-field service from either the inside radius or the outside radius.
- Exact widths are available to fit any application’s width restrictions.
- Rolling round Delrin® sleeves can be added to RS bars for additional protection of hoses (consult factory).

**RS System Assembly Detail**

**Mounting Bracket Options**

For detailed drawings and dimensions of available options, please see pages: 14.18 - 14.19
**Why use RE system**

- By simply twisting on or twisting off the glass fiber reinforced nylon bars 90 degrees, cables & hoses can be quickly and easily installed (laid inside).
- Dividers can either be installed so they can be slid into position or locked into place.
- Ideal when ultra-light weight and cost effective designs are required.
- By using the twist-in snap locking bar construction, a strong “box” compartment is formed surrounding the contents.
- Cable friendly, light and rugged nylon bars.
- Quick and easy in-field service from either the inside radius or the outside radius.
- Widths are available to fit any application’s width restrictions in 0.63” (16 mm) increments.

**Specifications are subject to change without notice.**
Easy Snap-In Cavity Partitioning for Varitrak KE 0900 RE Bar System

When multiple cables/hoses or cables/hoses with different diameters are to be placed inside the same carrier system and require vertical stacking, a simple to install snap-in cavity partitioning system should be used. This system easily allows for varying carrier system cavity compartment heights (shelves) and widths (dividers) necessary to properly accommodate each cable or hose.

Horizontal shelves can be easily pressed and locked into place between the specially designed RE vertical dividers. This makes horizontal and vertical partitioning of the carrier’s cavity easy to install and highly flexible to meet your application’s unique needs.
Series KC 0900

**RV Bar System**

Features wide twist-in/twist-out aluminum bars on both the outer radius and the inner radius per frame stay.

Usable Cavity Widths ($B_i$) are available from **3.00” (76.2 mm)** through **20.00” (508 mm)** in any width increment required by the customer.

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**Why use RV system**

- Simply by twisting on or twisting off the wide aluminum bar 90 degrees, cables & hoses can be quickly and easily installed (laid inside).
- Can be used with easy snap-in horizontal and vertical cavity partitioning system for simple and effective separation of cables and hoses within the cavity.
- Smooth aluminum wide bar construction forms an extremely strong “box” compartment around the contents that resists twisting and deformation under load.
- Quick and easy in-field service from either the inside radius or the outside radius.
- Exact widths are available to fit any application’s width restrictions.

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**KC0900 - 3.00” - RV** - (KR) - (# of links) - (brackets) - (dividers)

**Recommended MINIMUM Width**

| $B_st$ | $B_k$ | $B_{EF}$ |
| 3.00 (76.2) | 2.61 (66.2) | 0.63 (16) |

*Note: For extended widths, multiple chain-band designs are available, please consult factory: 1-800-443-4216*

**KC0900 - 20.00” - RV** - (KR) - (# of links) - (brackets) - (dividers)

**Recommended MAXIMUM Width**

| $B_st$ | $B_k$ | $B_{EF}$ |
| 19.61 (498) | 21.22 (539) | 21.77 (553) |

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**Mounting Bracket Options**

For detailed drawings and dimensions of available options, please see pages: 14.16 - 14.19

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Specifications are subject to change without notice.
Easy Snap-In Cavity Partitioning for Varitrak KC 0900 RV Bar System

When multiple cables/hoses or cables/hoses with different diameters are to be placed inside the same carrier system and require vertical stacking, a simple to install snap-in cavity partitioning system should be used. This system easily allows for varying carrier system cavity compartment heights (shelves) and widths (dividers) necessary to properly accommodate each cable or hose.

Horizontal shelves can be easily pressed and locked into place between the specially designed RV vertical dividers. This makes horizontal and vertical partitioning of the carrier's cavity easy to install and highly flexible to meet your application's unique needs.
**RMR Bar System**

Features heavy-duty double bolted-on aluminum bar with integrated roller system on the outer radius and on the inner radius per frame stay.

Usable Cavity Widths ($B_i$) are available from **3.00” (76.2 mm)** through **24.00” (609.6 mm)** in any width increment required by the customer.

**Why use RMR system**

- By unscrewing the 2 bolts per bar at either end of each bar and carefully removing the horizontal rollers and vertical rolling dividers, cables & hoses can be installed.
- Ideal when heavy duty designs involving hoses are required.
- Extremely rugged bolted-on bar construction forms an extremely strong “box” compartment around the contents that resists twisting and deformation under load.
- Smooth, cable friendly and strong aluminum bars with rolling Delrin® surfaces form nearly a frictionless cavity compartment.
- Quick and easy in-field service from either the inside radius or the outside radius.
- Exact widths are available to fit any application’s width restrictions.

**Mounting Bracket Options**

For detailed drawings and dimensions of available options, please see pages: 14.18 - 14.19

**Specifications are subject to change without notice.**

KSA-L15015-GC

**KC0900 - 3.00” - RMR - (# of links) - (brackets) - (dividers)**

Recommended **MINIMUM** Width

<table>
<thead>
<tr>
<th>$B_i$</th>
<th>$B_i$</th>
<th>$B_i$</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.88</td>
<td>1.88</td>
<td>1.88</td>
</tr>
<tr>
<td>47.8</td>
<td>47.8</td>
<td>47.8</td>
</tr>
</tbody>
</table>

Optional replaceable glide buttons are available to extend system life in side-mount applications or in guide channels. Consult factory for details.

**KC0900 - 24.00” - RMR - (# of links) - (brackets) - (dividers)**

Recommended **MAXIMUM** Width

<table>
<thead>
<tr>
<th>$B_i$</th>
<th>$B_i$</th>
<th>$B_i$</th>
</tr>
</thead>
<tbody>
<tr>
<td>24.00</td>
<td>24.00</td>
<td>24.00</td>
</tr>
<tr>
<td>609.6</td>
<td>609.6</td>
<td>609.6</td>
</tr>
</tbody>
</table>

Note: For extended widths, multiple chain-band designs are available, please consult factory: 1-800-443-4216

**RMR System Assembly Detail**

For detailed drawings and dimensions of available options, please see pages: 14.18 - 14.19
**VARIITRAK K**

modular • hybrid • open style • customizable widths

**LG Bar System**

Features bolted-on heavy-duty split and bored aluminum bars.

Bar Widths ($B_{ST}$) are available from 3.00” (76.2 mm) through 27.50” (698.5 mm) in any width increment required by the customer.

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**KC0900 - 3.00” - LG - (# of links) - (brackets) - (# of holes)**

**Recommended MINIMUM Width**

Optional replaceable glide buttons are available to extend system life in side-mount applications or in guide channels. Consult factory for details.

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**KC0900 - 27.50” - LG - (# of links) - (brackets) - (# of holes)**

**Recommended MAXIMUM Width**

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**Why use LG system**

- By simply unscrewing 1 bolt per split-bar at either end of each bar and sliding out the upper half of the split-bar, cables & hoses can be easily installed (laid inside, in each specifically designed 1/2 round).
- Ideal when unique cables and hoses must be individually separated.
- Extremely rugged bolted-on bar construction forms an exceptionally strong “collar” around the individual contents that resists twisting and deformation under load.
- Smooth, cable friendly and strong aluminum bar design that is made to match the individual cable and/or hose sizes and types. Cable manufacturers’ favorite frame stay system.
- Quick and easy in-field service from either the inside radius or the outside radius.
- Exact widths are available to fit any application’s width restrictions.

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**Mounting Bracket Options**

For detailed drawings and dimensions of available options, please see pages: 14.18 - 14.19
K 0900 Wedge Type Mounting Brackets

Mounting Bracket Dimensions
Wedge Style Brackets made of nylon

 Optionally available with C-Channel, slot width 16 - 17 mm. Fits commercial saddle type clamps with small base and KabelClamp SZL strain relief clamps. (see cable carrier accessories)

Ordering Wedge Type Brackets
Bracket End
F - Fixed End
M - Moving End

Bracket Type and Orientation
A - wedge type bracket with mounting surface facing the outside radius (standard)
I - wedge type bracket with mounting surface facing the inside radius (toward KR)

The bracket type and orientation at the Fixed End and at the Moving End can be combined and subsequently changed if required.
Please state the desired connection type and orientation when ordering.
Examples: FA/MA or different types of brackets can be used at each end of the chain i.e. FI/MU

Example Wedge Type Mounting Bracket Positions

Fixed End Brackets
Moving End Brackets

Specifications are subject to change without notice.
### K 0900 Universal Style Mounting Brackets

**Mounting Bracket Dimensions**
Universal KSA Style Brackets made of nylon

Optionally available with C-Channel, slot width 16-17 mm. Fits commercial saddle type clamps with small base and KabelClamp SZL strain relief clamps. (see cable carrier accessories)

### Ordering Universal Type Brackets

**Bracket End**
- **F** - Fixed End
- **M** - Moving End

**Bracket Type and Orientation**
- **U** - Universal KSA Style Bracket

The bracket type and orientation at the Fixed End and at the Moving End can be combined and subsequently changed if required.

Please state the desired connection type and orientation when ordering.

**Examples:** FU/MU or different types of brackets can be used at each end of the chain i.e. FU/MA