QUANTUM

Light, extremely quiet and low-vibration for high speeds and accelerations*

- Suitable for clean rooms:
  - Clean room certification "Class 1" possible – no hinges, no link wear**
  - Extremely quiet, 31 db (A)***
  - Extremely lightweight
  - For high accelerations up to 300 m/s²
  - For travel speeds up to 40 m/s
- Very long service life:
  - 25 million cycles = unsurpassed service life
- TÜV design approved in accordance with 2PfG 1036/10.97
  ** Tested: Q040.77.RE-70-1000 by the Fraunhofer Institute, travel speed V1 = 0.2 m/s and V2 = 0.9 m/s
  *** Tested: Q060.100.100 by TÜV Rheinland. The measurement area sound pressure level was measured at a distance of 0.5 m for uniform and jerky movement.

C-Rail for strain relief elements or strain relief comb

Replaceable glide shoes

Universal connectors (UMB)

Extremely low-noise and low-vibration operation

Aluminium stays available in 1 mm width sections

Plastic stays available in 8 or 16 mm width sections

Large choice of stay systems and ways of separating the cables

Ideal for highly dynamic applications – extruded side bands

The operation of the QUANTUM is extremely quiet and low-vibration. Due to the link-free design and the very small pitch, the so-called polygon effect is minimized. Due to the low noise during operation, the QUANTUM cable carrier system is optimally suited for applications with low-vibration linear drives.

Suitable for clean rooms and long service life

Extruded sidebands are installed. In contrast to conventional pin-hole joints, there is almost no wear (link wear), whereby QUANTUM is excellent for use in clean rooms. Extremely long service life due to:
- No link wear on pin-hole joints
- Special plastic and steel cables in the supporting base

Ideal for highly dynamic applications

3D movements: The driver connection can move sideways and can be turned through up to ± 30 degrees

Side bands made of extruded special plastic and steel cables in the supporting base for extremely long service life

*Some features can be different for certain types for design reasons. Our specialists are happy to advise you.
Specifications are subject to change without notice.

KSA-L15015-GC

**Technical Data**

**Series**

**Q 040**

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<th>Option</th>
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* Bend Radius (KR) tolerance is +5%/-10%.

**Dimensions in inches (mm)**

**Calculation of Chain Length**

\[ L_e = \text{total machine travel} \]
\[ L_b = 3.14 \times KR + (12 \times t \text{ safety factor}) \]
\[ L_k = \text{chain length required} \]
\[ L_e = \frac{LS}{2} + \text{length of the curve (LB)} \]*

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

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**Unsupported Length**

Extended Travel:
When application travel exceeds the maximum unsupported length of the carrier, QUANTUM carrier systems are designed to glide on themselves in a guide-channel.

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

**Number of Systems Req.**

50 x Q040 - 4.00” - RS - 90 x 1300 mm + FU/MU + 2v/1h
RS Bar System

Features twist in/out aluminum bars on the inner and outer radius.

Usable Cavity Widths (B_i) are available from 1.10” (28 mm) through 14.00” (355.6 mm) in any width increment required by the customer.

**Q040 - 1.10” - RS**

Recommended **MINIMUM** Width

- B_k = 2.72 (69)
- B_k = B_i + 1.57 (40)
- h_G = 1.57 (40)
- B_i = 1.10 (28)

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

**Q040 - 14.00” - RS**

Recommended **MAXIMUM** Width

- B_k = 15.57 (395.6)
- B_i = 14.00 (355.6)
- h_G = 1.57 (40)
- h_i = Inner chain cavity (usable) height
- B_k = Outer chain width
- h_G = Outer chain (usable) width
- ST = Vertical divider thickness

**Why use RS system**

- Simply by twisting on or twisting off the smooth aluminum bar 90 degrees, cables & hoses can be quickly and easily installed (laid inside).
- Ideal when lightweight designs are required.
- Smooth, cable friendly and strong aluminum bars.
- Exact widths are available to fit any application’s width restrictions.
- A wide range of horizontal and vertical partitioning options are available.

**RS System Assembly Detail**

Mounting Bracket Options

For detailed drawings and dimensions of available options, please see page: 19.22
Features twist-in/twist-out glass fiber reinforced nylon bars on the inner and outer radius.

Usable Cavity Widths ($B_i$) are available from 1.10" (28 mm) through 11.18" (284 mm) in 33 width options sized in even increments of 0.31" (8 mm).

Available Cavity Widths ($B_i$) = 1.10 (28), 1.42 (36), 1.73 (44), 2.05 (52), 2.36 (60), 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), 10.55 (268), 10.87 (276), 11.18 (284)

(width sizes shown in blue are from stock)

**Why use RE system**

- By simply twisting on or twisting off the 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 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.
- Widths are available to fit any application’s width restrictions in 0.31 (8 mm) increments.
### DESIGN AND LAYOUT NOTES

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<tr>
<td>Dept.:</td>
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<tr>
<td>Company:</td>
<td>Fax:</td>
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<td>Machine Type/Name:</td>
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Specifications are subject to change without notice.
**Specifications are subject to change without notice.**

**KSA-L15015-GC**

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**Series:** Q 060

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**Calculation of Chain Length**

\[ L_s = \text{total machine travel} \]

\[ L_c = 3.14 \times KR + (12 \times t \text{ safety factor}) \]

\[ L_k = \text{chain length required} \]

\[ L_u = L_s + 2 + \text{length of the curve (L_B)} \]

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

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**Unsupported Length**

**How To Order**

1-800-443-4216

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**Number of Systems Req.**

**Carrier Type**

**Cavity Width (B1)**

**Type Frame Stay**

**Bend Radius**

**System Length**

**Type & Position Brackets**

**Dividers (#vert / #horz)**

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10 x Q060 - 12.00” - RS - 150 x 1380 mm + FU/MU + 8v/0h

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**Download 3D CAD files, videos, updated product info & much more at:**

www.kabelschlepp.com/quantum.htm

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**ECONOMIC VALUE ADDED**

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.

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**For more information on extended travel systems, see pages 02.27 - 02.36**
RS Bar System

Features twist in/out aluminum bars on the inner and outer radius.

Usable Cavity Widths ($B_i$) are available from 2.00” (50.8 mm) through 20.00” (508 mm).

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

**Q060 - 2.00” - RS**

Recommended MINIMUM Width

$$h_G' = 2.00 \text{ (50.8)}}$$

Replaceable glide shoes are available for extending system life in long travel gliding applications. Consult factory for details.

**Q060 - 20.00” - RS**

Recommended MAXIMUM Width

$$h_G = 2.36 \text{ (60)}}$$

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 smooth aluminum bar 90 degrees, cables & hoses can be quickly and easily installed (laid inside).
- Ideal when light weight designs are required.
- Smooth, cable friendly and strong aluminum bars.
- Exact widths are available to fit any application’s width restrictions.
- Round, rolling Delrin® sleeves can be added to RS bars for additional protection of hoses (consult factory).
- A wide range of horizontal and vertical partitioning options are available including RMA cavity height extensions.

Specifications are subject to change without notice.

KSA-L15015-GC

19.07

Need help? 1-800-443-4216 or www.kabelschlepp.com
Features twist-in/twist-out glass fiber reinforced nylon bars on the inner and outer radius.

Usable Cavity Widths ($B_i$) are available from 2.68” (68 mm) through 10.87” (276 mm) in 27 width options sized in even increments of 0.31” (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), 10.55 (268), 10.87 (276) (width sizes shown in blue are from stock)

Why use RE system

- By simply twisting on or twisting off the 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 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.
- Widths are available to fit any application’s width restrictions in 0.31 (8 mm) increments.

Q060 - 68mm - RE - (KR) - (# of links) - (brackets) - (dividers)

Recommended MINIMUM Width

$B_i$ = 2.68 (68)

$B_K$ = $B_i + 2.05 (52)$

$B_{EF}$ = $B_i + 2.20 (56)$

$B_K = 4.72 (120)$

$B_{EF} = 4.88 (124)$

$B_K = 12.91 (328)$

$B_{EF} = 13.07 (332)$

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

Q060 - 276mm - RE - (KR) - (# of links) - (brackets) - (dividers)

Recommended MAXIMUM Width

$B_i$ = 10.87 (276)

$B_K = 12.91 (328)$

$B_{EF} = 13.07 (332)$

Maximum Cable O.D. = $h_i \times 0.9$

Maximum Hose O.D. = $h_i \times 0.8$

$B_K = 13.07 (332)$

$B_{EF} = 13.07 (332)$
Easy Snap-In Cavity Partitioning System for QUANTUM Q 060 RE Bar

Specifications are subject to change without notice.

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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.
## Technical Data

<table>
<thead>
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<th>Series</th>
<th>Mounting Height H</th>
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* Bend Radius (KR) tolerance is ±5%-10%.

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### Calculation of Chain Length

$L_s = \text{total machine travel}$

$L_s = 3.14 \times KR + (12 \times t \text{ safety factor})$

$L_s = \text{chain length required}$

$L_s = \text{LS} + 2 + \text{length of the curve (LB)*}$

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

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### How To Order

1-800-443-4216

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

5 x Q080 - 346 mm - RE - 320 x 2500 mm + FU/MU + 12v/1h
RS Bar System

Series Q 080

Features twist in/out aluminum bars on the inner and outer radius.

Usable Cavity Widths ($B_i$) are available from 2.00” (50.8 mm) through 22.00” (558.8 mm).

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

Q080 - 2.00” - RS - (# of links) - (brackets) - (dividers)

Q080 - 22.00” - RS - (# of links) - (brackets) - (dividers)

Why use RS system

- Simply by twisting on or twisting off the smooth aluminum bar 90 degrees, cables & hoses can be quickly and easily installed (laid inside).
- Ideal when lightweight designs are required.
- Smooth, cable friendly and strong aluminum bars.
- Exact widths are available to fit any application’s width restrictions.
- Round, rolling 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 page: 19.22
Features twist-in/twist-out glass fiber reinforced nylon bars on the inner and outer radius.

Usable Cavity Widths ($B_i$) are available from 2.91” (74 mm) through 22.44” (570 mm) in 32 width options sized in even increments of 0.63” (16 mm).

Available Cavity Widths ($B_i$) = 2.91 (74), 3.54 (90), 4.17 (106), 4.80 (122), 5.43 (138), 6.06 (154), 6.69 (170), 7.32 (186), 7.95 (202), 8.58 (218), 9.21 (234), 9.84 (250), 10.51 (266), 11.10 (282), 11.73 (298), 12.36 (314), 12.99 (330), 13.62 (346), 14.25 (362), 14.88 (378), 15.51 (394), 16.14 (410), 16.77 (426), 17.40 (442), 18.03 (458), 18.66 (474), 19.29 (490), 19.93 (506), 20.55 (522), 21.18 (538), 21.81 (554), 22.44 (570) (width sizes shown in blue are from stock)

**RE Bar System**

- By simply twisting on or twisting off the 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 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.
- Widths are available to fit any application’s width restrictions in 0.63” (16 mm) increments.

**Why use RE system**

**Q080 - 74mm - RE - (KR) - (# of links) - (brackets) - (dividers)**

**Q080 - 570mm - RE - (KR) - (# of links) - (brackets) - (dividers)**

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

**RE System Assembly Detail**

**Mounting Bracket Options**

For detailed drawings and dimensions of available options, please see page: 19.22
Easy Snap-In Cavity Partitioning System for QUANTUM Q 80 RE Bar

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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Specifications are subject to change without notice.

PN: 71512

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.
RV Bar System

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

Usable Cavity Widths \( (B_i) \) are available from 2.00” (50.8 mm) through 24.00” (609.6 mm) in any width increment required by the customer.

**Why use RV system**

- Simply by twisting on or twisting off the smooth and 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 bar construction forms an extremely strong “box” compartment surrounding contents that resists twisting and deformation under load.
- Exact widths are available to fit any application’s unique width restrictions.

**Q080 - 2.00” - RV**

| Recommended MINIMUM Width | \( h_G = 3.46 \) (88) |

| \( B_k \) = Outer chain width | \( B_k = 4.83 \) (122.8) |
| \( B_k = B_i + 2.83 \) (72) |
| \( B_{EF} = B_i + 3.13 \) (79.5) |

**Q080 - 24.00” - RV**

| Recommended MAXIMUM Width | \( h_G = 3.15 \) (80) |

| \( B_k \) = Outer chain width | \( B_k = 26.83 \) (681.6) |
| \( B_k = B_i + 3.13 \) (79.5) |

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

**RV System Assembly Detail**

- Replaceable glide shoes are available for extending system life in long travel gliding applications. Consult factory for details.

- Dividers can be slid into position.

- For detailed drawings and dimensions of available options, please see page: 19.22

Specifications are subject to change without notice.
Easy Snap-In Cavity Partitioning System for QUANTUM Q80 RV Bar

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.

**Specifications**

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<th>C (mm)</th>
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KSA-L15015-GC

QUANTUM

VARIO-LINE

CL

Total Machine Travel (L_s)

Extended Retracted Moving End

Fixed End

t = Link Pitch

Calculations of Chain Length

L_s = total machine travel

L_b = 3.14 x KR + (12 x t safety factor)

L_c = chain length required

L_u = L_s ÷ 2 + length of the curve (L_b)*

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

Additional Load

Unsupported Length

Extended Travel:

When application travel exceeds the maximum unsupported length of the carrier, QUANTUM carrier systems are designed to glide on themselves in a guide-channel.

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

How To Order

1-800-443-4216

Number of Systems Req. x Carrier Type + Cavity Width (B1) + Type Frame Stay + Bend Radius x System Length + Type & Position Brackets + Dividers (Fig. vert/ horz)

20 x Q100 - 18.00" - RV - 460 x 2820 mm + FU/MU + 12v/2h

Dimensions in inches (mm)

Technical Data

Series Q 100

Option A

Option B

Option C

Option D

Option E

Option F

Mounting Height H = 19.80 (503) 25.31 (643) 29.25 (743) 34.76 (883) 41.85 (1063) 52.87 (1343)

Bend Radius KR = 7.09 (180) 9.84 (250) 11.81 (300) 14.57 (370) 18.11 (460) 23.62 (600)

Depot U_B = 17.01 (432) 19.76 (502) 21.73 (552) 24.49 (622) 28.03 (712) 33.54 (852)

Loop Length L_B = 36.46 (926) 45.08 (1145) 51.26 (1302) 59.92 (1522) 71.06 (1805) 88.35 (2244)

* Bend Radius (KR) tolerance is +5%/10%.
Features twist in/out aluminum bars on the inner and outer radius.

Usable Cavity Widths ($B_i$) are available from 4.00” (101.6 mm) through 22.00” (558.8 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

**Q100 - 4.00” - RS** - (KR) - (# of links) - (brackets) - (dividers)

- **Recommended MINIMUM Width**
  - $B_i = 4.00” (101.6)$
  - $h_G = 4.25” (108)$

- **Recommended MAXIMUM Width**
  - $B_i = 22.00” (558.8)$
  - $h_G = 3.96” (98)$

**Why use RS system**

- Simply by twisting on or twisting off the smooth aluminum bar 90 degrees, cables & hoses can be quickly and easily installed (laid inside).
- Ideal when light weight designs are required.
- Smooth, cable friendly and strong aluminum bars.
- Exact widths are available to fit any application’s width restrictions.
- Round, rolling Delrin® sleeves can be added to RS bars for additional protection of hoses (consult factory).

**Mounting Bracket Options**

For detailed drawings and dimensions of available options, please see page: 19.22

**Specifications**

Specifications are subject to change without notice.

KSA-L15015-GC
Features twist-in/twist-out glass fiber reinforced nylon bars on the inside and outside radius.

Usable Cavity Widths ($B_i$) are available from 2.91" (74 mm) through 22.44" (570 mm) in 32 width options sized in even increments of 0.63" (16 mm).

Available Cavity Widths ($B_i$) = 2.91 (74), 3.54 (90), 4.17 (106), 4.80 (122), 5.43 (138), 6.06 (154), 6.69 (170), 7.32 (186), 7.95 (202), 8.58 (218), 9.21 (234), 9.84 (250), 10.51 (266), 11.10 (282), 11.73 (298), 12.36 (314), 12.99 (330), 13.62 (346), 14.25 (362), 14.88 (378), 15.51 (394), 16.14 (410), 16.77 (426), 17.40 (442), 18.03 (458), 18.66 (474), 19.29 (490), 19.93 (506), 20.55 (522), 21.18 (538), 21.81 (554), 22.44 (570)

(width sizes shown in blue are from stock)

**Q100 - 74mm - RE - (KR) - (# of links) - (brackets) - (dividers)**

**Recommended MINIMUM Width**

- $h_G = 4.25 (108)$
- $B_k = 6.14 (156)$
- $B_k = B_i + 3.23 (82)$

**Q100 - 570mm - RE - (KR) - (# of links) - (brackets) - (dividers)**

**Recommended MAXIMUM Width**

- $h_G = 3.86 (98)$
- $B_k = 25.67 (662)$
- $B_k = B_i + 3.23 (82)$

**Why use RE system**

- By simply twisting on or twisting off the 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 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.
- Widths are available to fit any application’s width restrictions in 0.63 (16 mm) increments.

**RE System Assembly Detail**

**Mounting Bracket Options**

For detailed drawings and dimensions of available options, please see page: 19.22

Specifications are subject to change without notice.
Easy Snap-In Cavity Partitioning System for QUANTUM Q 100 RE Bar

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

Usable Cavity Widths ($B_i$) are available from 4.00” (101.6 mm) through 24.00” (609.6 mm) in any width increment required by the customer.

**Why use RV system**

- Simply by twisting on or twisting off the smooth and 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 bar construction forms an extremely strong “box” compartment surrounding contents that resists twisting and deformation under load.
- Exact widths are available to fit any application’s unique width restrictions.
Easy Snap-In Cavity Partitioning System for QUANTUM Q 100 RV Bar

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.

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</table>
QUANTUM UNIVERSAL BRACKETS

Mounting Bracket Dimensions
Universal KSA Style Brackets are made of high strength plastic (Q 040, Q060) or cast aluminum (Q 80, Q100) and can be bolted into place on the top, bottom, or front mounting surface of the brackets.

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Ordering QUANTUM Universal Brackets
Bracket End
M - Moving End
F - Fixed End

Bracket Designation
U - Universal Bracket

When specifying QUANTUM Universal Brackets, use the letter U for the Bracket Position designation of the assembly part number description.

Example: FU/MU

Strain Relief Options
QUANTUM Universal Brackets are designed to accommodate several different strain relief options.

Specifications are subject to change without notice.
A QUANTUM leap forward in cable & hose carrier technology

A huge leap forward in cable carrier technology that breaks the mold of tradition link-based carrier systems, the QUANTUM carrier system uses side-bands that are made of a special continuously extruded polymer.

With this revolutionary Linkless™ design, noise from the impact of chain links rotating through the curve is virtually nonexistent. Even the “clicking” sound of individual chain links contacting the floor is eliminated. System vibration that would normally be caused by a typical system’s articulating links is also practically eliminated. The low-vibration operation further minimizes wear and tear on cables and hoses.

QUANTUM can even accommodate 3D-movements

The moving end connection is capable of allowing lateral movement and can be rotated and twisted by up to ± 30 degrees during normal operation.

With added strength

Two integral steel ropes in the side-band extrusion increase QUANTUM’s cycle life as well as offer tremendous tensile and bending strength of the entire cable carrier system. These cables can be tied to the mounting brackets for added system tensile strength. Consult factory for details.

Ideal for high-speed applications

Due to the low intrinsic weight and the absence of hinge friction, the force required for moving the cable carrier is greatly reduced when compared to other traditional carrier systems.

QUANTUM’s light weight and low required tow force make it ideal for applications that require:

- high accelerations up to max. 300 m/s²
- high operating speeds up to max. 40 m/s

Replaceable plastic glide shoes for long-travel applications

KABELSCHLEPP offers detachable, replaceable, ultra low friction “Luvocom” glide shoes for significantly increasing the life of the cable carriers in long-travel of high duty cycle gliding applications.

Replaceable glide shoes are a very economical solution. In case of excessive wear, only the glide shoes are replaced and not the complete cable carrier.

* currently not available for Q 040 systems