M Series

Multi-variable cable carrier with extensive accessories and frame-stay variants*

- TÜV design approved in accordance with 2PfG 1036/10.97**
- Universal Mounting Brackets (UMB)
- Aluminum stay option with ball joint
- Can be opened quickly on the inside and the outside for easy cable installation
- MC Series Aluminum stays available in the exact width you require
- MK/ME Series Plastic stays available in 4, 8 or 16 mm width sections
- MT RMD Tube Series Aluminum cover available in 1 mm width sections
- MT Tube Series Plastic cover available in 8 or 16 mm width sections
- Large choice of stay systems and ways of separating the cables

- Locking bolts
- Enclosed stop system protected from dirt/contamination
- Dividers can be fixed in place
- C-Rail for strain relief elements
- Minimized hinge wear owing to the "life extending 2 disc principle"
- Replaceable glide shoes
- Extremely robust due to stable plate construction

* Some features can be different for certain types for design reasons. Our specialists are happy to advise you.
** not MC 1300

Specifications are subject to change without notice.

Need help? 1-800-443-4216 or www.kabelschlepp.com
### General Data

#### EVA 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.

Download 3D CAD files, videos, updated product info & much more at: [www.kabelschlepp.com/varitrakmk.htm](http://www.kabelschlepp.com/varitrakmk.htm)

### Technical Data

#### Series
- **ME 0320**

<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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<tr>
<td>A</td>
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<td>B</td>
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<td>4.84 (123)</td>
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<td>3.94 (100)</td>
<td>5.75 (146)</td>
<td>14.92 (379)</td>
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<tr>
<td>E</td>
<td>16.83 (427.5)</td>
<td>7.87 (200)</td>
<td>9.69 (246)</td>
<td>17.28 (683)</td>
</tr>
</tbody>
</table>

#### Calculation of Chain Length
- $L_S = \text{total machine travel}$
- $L_B = 3.14 \times KR + (2 \times t \text{ safety factor})$
- $L_K = \text{chain length required}$
- $L_S = LS ÷ 2 + \text{length of the curve (} L_B \text{)}^*$

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

#### Self-Supporting Lengths

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<thead>
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<th>Additional Load</th>
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<td>lbs</td>
<td>ft m</td>
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<tr>
<td>0.82</td>
<td>0.25 0.5 0.75</td>
</tr>
<tr>
<td>1.64</td>
<td>1.0 1.25 1.5</td>
</tr>
<tr>
<td>2.46</td>
<td>1.5 1.75</td>
</tr>
<tr>
<td>3.28</td>
<td></td>
</tr>
<tr>
<td>4.10</td>
<td></td>
</tr>
<tr>
<td>4.92</td>
<td></td>
</tr>
<tr>
<td>5.74</td>
<td></td>
</tr>
</tbody>
</table>

#### Extended Travel:
When application travel exceeds the self-supporting length of the carrier, Varitrak ME 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
**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 0.98" (25 mm) through 5.87" (149 mm) in 32 width options sized in even increments of 0.16" (4 mm).

Available Cavity Widths \( B_i \) = 0.98 (25), 1.14 (29), 1.30 (33), 1.46 (37), 1.61 (41), 1.77 (45), 1.93 (49), 2.09 (53), 2.24 (57), 2.40 (61), 2.56 (65), 2.72 (69), 2.87 (73), 3.03 (77), 3.19 (81), 3.35 (85), 3.50 (89), 3.66 (93), 3.82 (97), 3.98 (101), 4.13 (105), 4.29 (109), 4.45 (113), 4.61 (117), 4.76 (121), 4.92 (125), 5.08 (129), 5.24 (133), 5.39 (137), 5.55 (141), 5.71 (145), 5.87 (149)

(width sizes shown in **blue** are from stock)

---

**ME0320 - 25mm - RE - (KR) - (# of links) - (brackets) - (dividers)**

**Recommended MINIMUM Width**

\[ h_G = \frac{0.98}{(25)} \]

\[ B_k = \frac{1.42}{(36)} \]

\[ B_k = B_i + 0.43 \]

---

**ME0320 - 149mm - RE - (KR) - (# of links) - (brackets) - (dividers)**

**Recommended MAXIMUM Width**

\[ h_G = \frac{0.98}{(25)} \]

\[ B_k = \frac{6.30}{(160)} \]

---

**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.
- 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 most any application’s width restrictions in 0.16 (4 mm) increments.

---

**RE System Assembly Detail**

**Mounting Bracket Options**

For detailed drawings and dimensions of available options, please see page: 16.04
MOUNTING BRACKETS VARITRAK® ME 0320

<p>| | |</p>
<table>
<thead>
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<th></th>
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<tbody>
<tr>
<td>a</td>
<td>$B_l - 0.57 \text{ (14.5)}$</td>
</tr>
<tr>
<td>b</td>
<td>$B_l - 0.57 \text{ (14.5)}$</td>
</tr>
<tr>
<td>c</td>
<td>0.28 (7)</td>
</tr>
<tr>
<td>d</td>
<td>1.77 (45)</td>
</tr>
<tr>
<td>e</td>
<td>0.30 (7.5)</td>
</tr>
<tr>
<td>f</td>
<td>0.28 (7.2)</td>
</tr>
<tr>
<td>g</td>
<td>0.382 (9.7)</td>
</tr>
</tbody>
</table>

$B_l$ = Inner width

VARITRAK MK standard bracket position options

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

**Bracket Position**
- **A** - connecting surface on outside radius (standard)
- **I** - connecting surface on inside radius
- **H** - connecting surface turned 90° to the outside radius
- **K** - connecting surface turned 90° to the inside radius

Please specify the desired bracket variant and position when ordering.

**Example:** *FA/MA (Standard)*

The bracket positions at the Fixed End and Moving End can be changed later if required.
DESIGN AND LAYOUT NOTES

Name: ___________________________    Date: ___________________________
Dept.: ___________________________    Phone: ___________________________    Fax: ___________________________
Company: _________________________    Machine Type/Name: _________________________
Address: ___________________________  

Specifications are subject to change without notice.

VARITRAK MK  
nylon • open style • customizable widths

A member of the TSUBAKI GROUP

Need help? 1-800-443-4216 or www.kabelschlepp.com
**Dimensions in inches (mm)**

### Technical Data

#### Series MK 0475

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<th>Option</th>
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<td>B</td>
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<td>13.03 (331)</td>
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<td>3.94 (100)</td>
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<td>5.12 (130)</td>
<td>7.76 (197)</td>
<td>19.84 (504)</td>
</tr>
<tr>
<td>E</td>
<td>14.13 (359)</td>
<td>6.30 (160)</td>
<td>8.94 (227)</td>
<td>23.54 (598)</td>
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<tr>
<td>F</td>
<td>17.28 (439)</td>
<td>7.87 (200)</td>
<td>10.51 (267)</td>
<td>28.50 (724)</td>
</tr>
<tr>
<td>G</td>
<td>21.22 (539)</td>
<td>9.84 (250)</td>
<td>12.48 (317)</td>
<td>34.69 (881)</td>
</tr>
<tr>
<td>H</td>
<td>25.16 (639)</td>
<td>11.81 (300)</td>
<td>14.45 (367)</td>
<td>40.87 (1038)</td>
</tr>
</tbody>
</table>

- Reverse Bend Radius (RKR) links are available for long travel systems that require a lowered mounting height. Consult factory for details.

### How To Order

**1-800-443-4216**

- **Number of Systems Req.**
- **Carrier Type**
- **Cavity Width (Bf)**
- **Type Frame Stay**
- **Bend Radius**
- **# of Links**
- **Type & Position Brackets**
- **Dividers (vert / horz)**

**Example:**

5 x MK0475 - 104 mm - RD - 130 x 44 Links + MAA/FAA + 4v0h
Features two twist-in/twist-out + hinged-opening glass fiber reinforced nylon bars per frame stay.

Usable Cavity Widths ($B_i$) are available from 0.94” (24 mm) through 11.02” (280 mm) in 33 width options sized in even increments of 0.31” (8 mm).

Available Cavity Widths ($B_i$) = 0.94 (24), 1.26 (32), 1.57 (40), 1.89 (48), 2.20 (56), 2.52 (64), 2.83 (72), 3.15 (80), 3.46 (88), 3.78 (96), 4.09 (104), 4.41 (112), 4.72 (120), 5.04 (128), 5.35 (136), 5.67 (144), 5.88 (152), 6.30 (160), 6.61 (168), 6.93 (176), 7.24 (184), 7.56 (192), 7.87 (200), 8.19 (208), 8.50 (216), 8.82 (224), 9.13 (232), 9.45 (240), 9.76 (248), 10.08 (256), 10.39 (264), 10.71 (272), 11.02 (280) (width sizes shown in blue are from stock)

MK0475 - 24mm - RD - (# of links) - (brackets) - (dividers)

Recommended MINIMUM Width

$$h_G = 1.54 \text{ (39)}$$

$$B_i = 0.94 \text{ (24)}$$

$$1.10 \text{ (28)} = h_i$$

$$B_k = 1.61 \text{ (41)}$$

$$B_k = B_i + 0.67 \text{ (17)}$$

MK0475 - 280mm - RD - (# of links) - (brackets) - (dividers)

Recommended MAXIMUM Width

$$h_G = 1.54 \text{ (39)}$$

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

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

$$B_i = 11.02 \text{ (280)}$$

$$B_k = 11.69 \text{ (297)}$$

$$1.10 \text{ (28)} = h_i$$

Why use RD system

- By simply twisting on or twisting off the nylon bars 90 degrees, cables & hoses can be quickly and easily installed (laid inside).
- Outside radius bars also hinge snap-open from either side allowing additional service.
- Dividers can either be installed so they can be slid into position or locked into place.
- 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 most any application’s width restrictions in 0.31” (8 mm) increments.

RD System Assembly Detail

Mounting Bracket Options

For detailed drawings and dimensions of available options, please see page: 16.08

Specifications are subject to change without notice.

Need help? 1-800-443-4216 or www.kabelschlepp.com
VARITRAK MK MOUNTING BRACKETS

Varitrak 0475 M brackets can be configured in a variety of positions to accommodate your application’s unique requirements.

MK 0475 Bracket Position Options

Bracket End
M - Moving End
F - Fixed End

Bracket Position
A - connecting surface on outside radius (standard)
I - connecting surface on inside radius
F - face/flange mount

Bracket feet on the standard brackets can be positioned facing inward (I) which is the standard position or facing outward (A).

Please specify the desired bracket variant and position when ordering.

Example: FAI/MAI (Standard) or FA/MIA

The bracket positions at the Fixed End and Moving End can be changed later if required.

Specifications are subject to change without notice.
### DESIGN AND LAYOUT NOTES

<table>
<thead>
<tr>
<th>Name: ___________________________</th>
<th>Date: ________________</th>
</tr>
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<tbody>
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<td>Dept.: __________________________</td>
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<tr>
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Specifications are subject to change without notice.

VARITRAK MK
nylon • open style • customizable widths

A member of the TSUBAKI GROUP

Need help? **1-800-443-4216** or [www.kabelschlepp.com](http://www.kabelschlepp.com)
Specifications are subject to change without notice.

KSA-L15015-GC

VARITRAK ME/MK

VARIO-LINE

Option A

Option B

Option C

Option D

Option E

Option F

Option G

Option H

Series

MK 0650

Mounting Height

H

Bend Radius

KR

Depot

UB

Loop Length

LB

Option A

8.15

2.95

6.65

14.41

(207)

(75)

(169)

(366)

Option B

9.72

3.74

7.44

16.89

(247)

(95)

(189)

(429)

Option C

11.30

4.53

8.23

19.37

(287)

(115)

(209)

(492)

Option D

13.66

5.71

9.41

23.07

(347)

(145)

(239)

(586)

Option E

16.02

6.89

10.59

26.77

(407)

(175)

(269)

(680)

Option F

19.57

8.66

12.36

32.36

(497)

(220)

(314)

(822)

Option G

25.87

11.81

15.51

42.24

(657)

(300)

(394)

(1073)

Option H

29.80

13.78

17.48

48.43

(757)

(350)

(444)

(1230)

Reverse Bend Radius (RKR) links are available for long travel systems that require a lowered mounting height. Consult factory for details.

How To Order

1-800-443-4216

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

8 x MK0650 - 122 mm - RD - 220 x 100 Links + MA/FIA + 5v/2h

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

Download 3D CAD files, videos, updated product info & much more at: www.kabelschlepp.com/varitrakmk.htm

Calculation of Chain Length

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

\[ \text{LN} = 3.14 \times \text{KR} + (2 \times t \text{ safety factor}) \]

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

\[ \text{LN} = \text{LS} + 2 + \text{length of the curve (LB)} \]

* Assumes the Fixed Point is located at the Center of the Total Machine Travel.
Features two twist-in/twist-out + hinged-opening glass fiber reinforced nylon bars per frame stay.

Usable Cavity Widths ($B_i$) are available from 1.97” (50 mm) through 10.16” (258 mm) in 27 width options sized in even increments of 0.32” (8 mm).

Available Cavity Widths ($B_i$) = 1.97 (50), 2.27 (58), 2.60 (66), 2.91 (74), 3.23 (82), 3.54 (90), 3.86 (98), 4.17 (106), 4.49 (114), 4.80 (122), 5.12 (130), 5.43 (138), 5.75 (146), 6.06 (154), 6.38 (162), 6.69 (170), 7.01 (176), 7.32 (186), 7.64 (194), 7.95 (202), 8.27 (210), 8.58 (218), 8.90 (226), 9.21 (234), 9.53 (242), 9.84 (250), 10.16 (258)

(width sizes shown in blue are from stock)

**MK0650 - 50mm - RD - (KR) - (# of links) - (brackets) - (dividers)**

**Recommended MINIMUM Width**

$hG' = 2.37 (60.2)$

$B_i = 1.97 (50)$

$1.65 (42) = h_j$

$2.24 (57) = hG$

$B_k = 3.31 (84)$

$B_k = B_i + 1.34 (34)$

**MK0650 - 258mm - RD - (KR) - (# of links) - (brackets) - (dividers)**

**Recommended MAXIMUM Width**

$hG = 2.24 (57)$

$B_i = 10.16 (258)$

$1.65 (42) = h_j$

$B_k = 11.50 (292)$

**Why use RD system**

- By simply twisting on or twisting off the nylon bars 90 degrees, cables & hoses can be quickly and easily installed (laid inside).
- Outside radius bars also hinge snap-open from either side allowing additional service.
- Dividers can either be installed so they can be slid into position or locked into place.
- 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 most any application’s width restrictions in 0.31 (8 mm) increments.
- Optional replaceable glide shoes (wear surface) for extended travel.

**RD System Assembly Detail**

- hinged-opening twist in/out fiber reinforced nylon bars on the outside radius
- twist in/out bars on inside radius

**Mounting Bracket Options**

For detailed drawings and dimensions of available options, please see page: 16.22 - 16.23
Easy Snap-In Cavity Partitioning System for Varitrak MK 0650

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 separators can be easily pressed and locked into place between the specially designed MK 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.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>A</th>
<th>B</th>
<th>C</th>
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<td>0.71 (18)</td>
<td>0.39 (10)</td>
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<td>52581</td>
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# DESIGN AND LAYOUT NOTES

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**GENERAL DATA**

### Technical Data

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<th>Bend Radius</th>
<th>Depot</th>
<th>Loop Length</th>
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<tr>
<td>Option C</td>
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<td>32.24 (819)</td>
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<tr>
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<td>15.55 (395)</td>
<td>39.65 (1007)</td>
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<tr>
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<td>14.96 (380)</td>
<td>20.28 (515)</td>
<td>54.59 (1384)</td>
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</tbody>
</table>

- ! Reverse Bend Radius (RKR) links are available for long travel systems that require a lowered mounting height. Consult factory for details.

### How To Order

**1-800-443-4216**

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

- 4 × MK0950 - 285 mm - RD - 290 × 100 Links + MU/FU + 4v/1h

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

---

**Calculation of Chain Length**

1. **LS** = total machine travel
2. **LK** = chain length required
3. **UB** = 3.14 x KR + (2 x t safety factor)
4. **LB** = chain length required
5. **UB** = LS ÷ 2 + length of the curve (LB)**

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

---

**Self-Supporting Lengths**

- **Ls** = total machine travel
- **UB** = 3.14 x KR + (2 x t safety factor)
- **UB** = chain length required
- **LB** = chain length required
- **UB** = LS ÷ 2 + length of the curve (LB)*

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

---

**Reverse Bend Radius (RKR) links are available for long travel systems that require a lowered mounting height. Consult factory for details.**

---

**How To Order**

**1-800-443-4216**

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

- 4 × MK0950 - 285 mm - RD - 290 × 100 Links + MU/FU + 4v/1h

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

---

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

[www.kabelschlepp.com/varitrakmk.htm](http://www.kabelschlepp.com/varitrakmk.htm)
Features two twist-in/twist-out + hinged-opening glass fiber reinforced nylon bars per frame stay. Usable Cavity Widths ($B_i$) are available from 1.77" (45 mm) through 21.93" (557 mm) in 33 width options sized in even increments of 0.63" (16 mm).

Available Cavity Widths ($B_i$) = 1.77 (45), 2.40 (61), 3.03 (77), 3.66 (93), 4.29 (109), 4.92 (125), 5.55 (141), 6.18 (157), 6.81 (173), 7.44 (189), 8.07 (205), 8.70 (221), 9.33 (237), 9.96 (253), 10.59 (269), 11.22 (285), 11.85 (301), 12.48 (317), 13.11 (333), 13.74 (349), 14.37 (365), 15.00 (381), 15.63 (397), 16.26 (413), 16.89 (429), 17.52 (445), 18.15 (461), 18.78 (477), 19.41 (493), 20.04 (509), 20.67 (525), 21.30 (541), 21.93 (557) (width sizes shown in blue are from stock).

**Why use RD system**

- By simply twisting on or twisting off the nylon bars 90 degrees, cables & hoses can be quickly and easily installed (laid inside).
- Outside radius bars also hinge snap-open from either side allowing additional service.
- Dividers can either be installed so they can be slid into position or locked into place.
- 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 most any application’s width restrictions in 0.63 (16 mm) increments.
- Optional replaceable glide shoes (wear surface) for extended travel.

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

**For detailed drawings and dimensions of available options, please see page: 16.22 - 16.23**
Easy Snap-In Cavity Partitioning System for Varitrak MK 0950

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.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>71514</td>
<td>0.63 (16)</td>
<td>0.31 (8)</td>
<td>0.18 (4.5)</td>
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<tr>
<td>52580</td>
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<td>0.39 (10)</td>
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<td>52581</td>
<td>0.91 (23)</td>
<td>0.59 (15)</td>
<td>0.16 (4)</td>
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<td>52582</td>
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<td>0.16 (4)</td>
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<td>52590</td>
<td>3.46 (88)</td>
<td>3.15 (80)</td>
<td>0.16 (4)</td>
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<td>0.18 (4.5)</td>
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<td>71520</td>
<td>4.41 (112)</td>
<td>4.09 (104)</td>
<td>0.18 (4.5)</td>
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<td>71521</td>
<td>5.04 (128)</td>
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<td>71523</td>
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<td>71524</td>
<td>6.93 (176)</td>
<td>6.61 (168)</td>
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<td>71525</td>
<td>7.56 (192)</td>
<td>7.24 (184)</td>
<td>0.18 (4.5)</td>
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<td>71526</td>
<td>8.19 (208)</td>
<td>7.87 (200)</td>
<td>0.18 (4.5)</td>
</tr>
</tbody>
</table>

Horizontal separators can be easily pressed and locked into place between the specially designed MK 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.
### GENERAL DATA

**VARITRAK ME/MK**

**Series**

**MK 1250**

<table>
<thead>
<tr>
<th>Option</th>
<th>Mounting Height</th>
<th>Bend Radius</th>
<th>Depot</th>
<th>Loop Length</th>
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<td>B</td>
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<td>37.09 (942)</td>
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<td>C</td>
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<td>17.05 (433)</td>
<td>42.01 (1067)</td>
</tr>
<tr>
<td>D</td>
<td>27.40 (696)</td>
<td>11.81 (300)</td>
<td>18.62 (473)</td>
<td>46.97 (1193)</td>
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<tr>
<td>E</td>
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<td>51.93 (1319)</td>
</tr>
<tr>
<td>F</td>
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<td>56.85 (1444)</td>
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<tr>
<td>G</td>
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<td>19.69 (500)</td>
<td>26.50 (673)</td>
<td>71.69 (1821)</td>
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</tbody>
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**Notes:**

- **How To Order:** 1-800-443-4216
- **Dimensions in inches (mm):**
- **Reverse Bend Radius (RKR) links are available for long travel systems that require a lowered mounting height. Consult factory for details.**

### Technical Data

**Self-Supporting Lengths**

<table>
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<th>Load (lbs)</th>
<th>Supporting Length (ft)</th>
<th>Type MK 1250</th>
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<td>9.8</td>
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<td>16.4</td>
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</table>

**Extended Travel:**

For more information on extended travel systems, see pages 02.27 - 02.36
**Features two twist-in/twist-out + hinged-opening glass fiber reinforced nylon bars per frame stay.**

- Usable Cavity Widths \( (B_i) \) are available from 2.80” (71 mm) through 21.69” (551 mm) in 31 width options sized in even increments of 0.63” (16 mm).

- Available Cavity Widths \( (B_i) \) = 2.80 (71), 3.43 (87), 4.06 (103), 4.69 (119), 5.31 (135), 5.94 (151), 6.57 (167), 7.20 (183), 7.83 (199), 8.46 (215), 9.09 (231), 9.72 (247), 10.35 (263), 10.98 (279), 11.61 (295), 12.24 (311), 12.87 (327), 13.50 (343), 14.13 (359), 14.76 (375), 15.39 (391), 16.02 (407), 16.65 (423), 17.28 (439), 17.91 (455), 18.54 (471), 19.17 (487), 19.80 (503), 20.43 (519), 21.06 (535), 21.69 (551) (width sizes shown in blue are from stock).

**Recommended MINIMUM Width**

\[ h_G' = \frac{B_i}{3.92} \]  
\[ (99.5) \]

\[ B_k = \frac{B_i}{4.57} \]  
\[ (116) \]

\[ B_k = B_i + 1.77 \]  
\[ (45) \]

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

**Recommended MAXIMUM Width**

\[ h_G = \frac{B_i}{3.78} \]  
\[ (96) \]

\[ B_k = \frac{B_i}{2.83} \]  
\[ (72) \]

**RD Bar System**

- By simply twisting on or twisting off the nylon bars 90 degrees, cables & hoses can be quickly and easily installed (laid inside).
- Outside radius bars also hinge snap-open from either side allowing additional service.
- Dividers can either be installed so they can be slid into position or locked in place.
- 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 most any application’s width restrictions in 0.63 (16 mm) increments.
- Optional replaceable glide shoes (wear surface) for extended travel.

**Why use RD system**

**RD System Assembly Detail**

**Mounting Bracket Options**

For detailed drawings and dimensions of available options, please see page: 16.22 - 16.23
### Easy Snap-In Cavity Partitioning System for Varitrak MK 1250

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

Horizontal separators can be easily pressed and locked into place between the specially designed MK 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.

<table>
<thead>
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<th>A (in)</th>
<th>B (in)</th>
<th>C (in)</th>
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</tr>
<tr>
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<td>0.79 (20)</td>
<td>0.16 (4)</td>
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<td>71515</td>
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<td>71526</td>
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<td>7.87 (200)</td>
<td>0.18 (4.5)</td>
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</tbody>
</table>
## VARITRAK® MK Mounting Bracket Options

### MK 0650, 0950 & 1250 Standard Mounting Brackets - made of steel

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<tr>
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<th>MK 0950</th>
<th>MK 1250</th>
</tr>
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<td>Bi = 1.02 (26)</td>
<td>Bi = 1.26 (32)</td>
</tr>
<tr>
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<tr>
<td>c</td>
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<td>0.41 (10.5)</td>
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<td>d</td>
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<td>1.18 (30)</td>
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<td>1.97 (50)</td>
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<td>l</td>
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</tbody>
</table>

**Fixed End & Moving End bracket dimensions are symmetrical**

### Standard Mounting Bracket for series 0650, 0950, & 1250

### Varitrak MK standard bracket position options

#### Bracket End

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

#### Bracket Position

- **A** - connecting surface on outside radius (standard)
- **I** - connecting surface on inside radius
- **H** - connecting surface turned 90° to the outside radius
- **K** - connecting surface turned 90° to the inside radius
- **U** - Universal Bracket (not pictured, see opposite page)

Example: **FAI/MAI** (Standard) or **FAA/MIA**
MK 0650, 0950, & 1250 UMB (Universal Mounting Brackets) - made of aluminum

Varitrak MK UMB bracket dimensions for MK 0650

Varitrak MK UMB bracket dimensions for MK 0950 & 1250

Ordering Universal Type Brackets

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