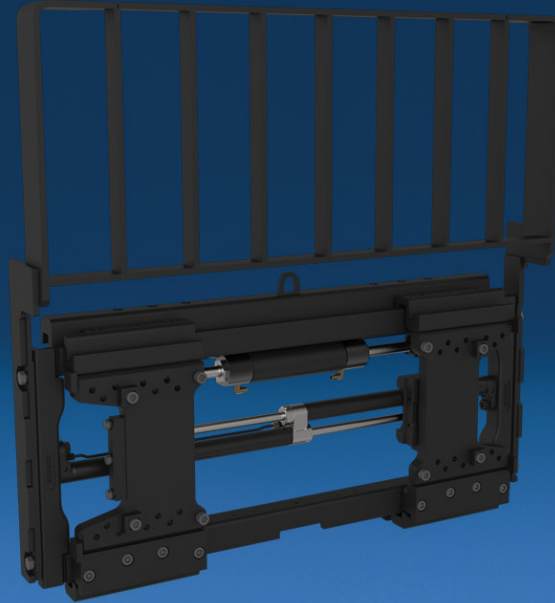


# Rugged Fork Positioning for Demanding Applications and Harsh Environments



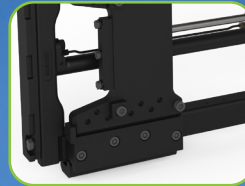
Secure bolt-on full-width load backrest



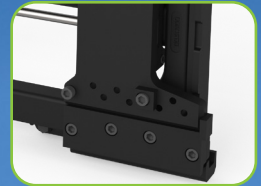
Long lasting replaceable bearing segments ensuring smooth travel and no wear on the fork hooks



See over the top of the frame with excellent operator visibility



Fork carriers accommodate various fork widths and fork mounting positions



Unique design and construction allows fork carriers to extend beyond the frame width

## APPLICATIONS

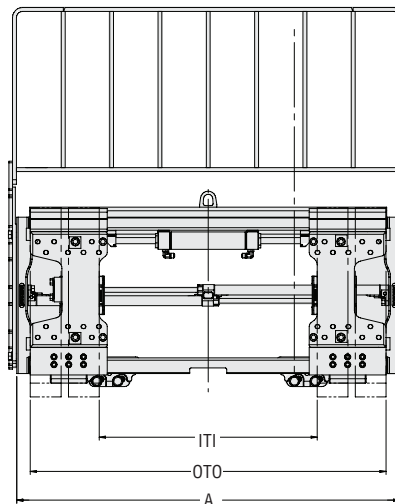
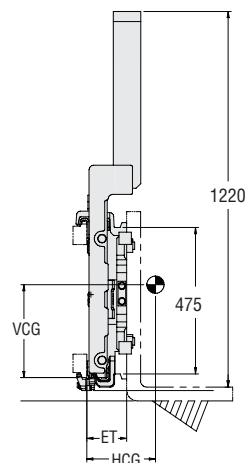
Recommended for rigorous applications including automotive, steel, lumber and various outdoor uses. Suitable for both standard, long fork and specialty forks such as telescopic fork applications, the K-Series "Carrier" Class 3 Fork Positioners have a capacity range from ~ 3,000-4,600 kgs. K-Series "Carrier" Class 3 Fork Positioners are designed to be used in the most rugged environments, tackling your toughest material handling challenges. The fork carriers are easily adjusted to accommodate a variety of fork widths.

## FEATURES

- Multiple hose termination options for quick and easy installation.
- Fork carriers with easy-to-service, durable, replaceable bearing segments ensure smooth travel and no wear on the fork hooks.
- Easy-to-install full-width load backrest.
- Unique design and construction allow fork carriers to extend beyond the frame width.
- Adaptable fork carriers accommodate various fork widths and can be adjusted so the forks are full out or forks full in.
- No-Weld installation.
- Zinc plated, corrosion resistant components.

## OPTIONS

- Non-sideshifting or custom sideshift stroke.
- Anti-drift hydraulics and independent fork control.
- Radio Frequency (RF), Solenoid or Sequence Valve hydraulic controls.
- Quick-disconnect lower hooks.
- Custom load backrest heights and custom fork ranges.
- Several termination options including non-standard RH/LH arrangements for quick and easy installation.
- Bronze upper sideshift bearings.
- Bronze lower sideshift hooks
- Cylinder and/or pallet guards.
- Bolt-on, Weld-on or Telescopic Forks.



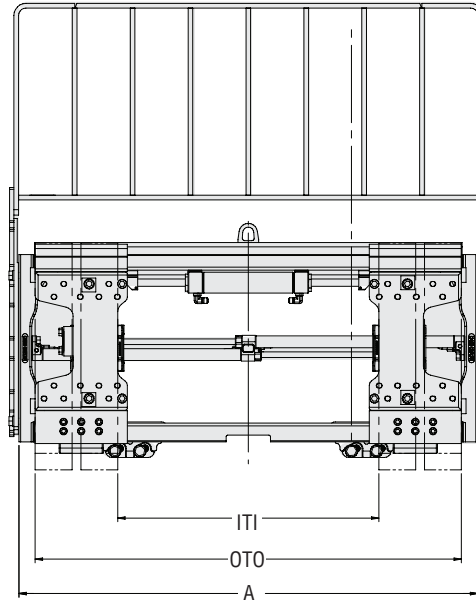
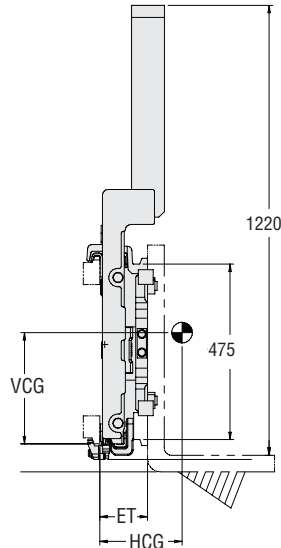
## Sideshifting

| Catalog<br>Order No.     | kg    | Capacity @<br>Load Center<br>mm | Frame Width<br>(mm)<br>A | Forks Full Out<br>on Carrier<br>(Out to Out) ①<br>OTO-OTO | Forks Full In on<br>Carrier<br>(In to In) ②<br>ITI-ITI | Mtg. Class | Min. Truck<br>Carriage Width<br>(mm) | Weight<br>kg | Effective<br>Thickness<br>(mm)<br>ET | Horizontal Ctr.<br>of Gravity (mm)<br>HCG | Vertical Ctr.<br>of Gravity (mm)<br>VCG | Total Sideshift<br>(mm) |
|--------------------------|-------|---------------------------------|--------------------------|-----------------------------------------------------------|--------------------------------------------------------|------------|--------------------------------------|--------------|--------------------------------------|-------------------------------------------|-----------------------------------------|-------------------------|
| <b>With Backrest 48"</b> |       |                                 |                          |                                                           |                                                        |            |                                      |              |                                      |                                           |                                         |                         |
| 65K-FPS-3A-6100          | 3,000 | 600                             | 940                      | 507-1040                                                  | 59-595                                                 | 3A         | 870                                  | 188          | 141                                  | 114                                       | 361                                     | 200                     |
| 65K-FPS-3A-6101          | 3,000 | 600                             | 970                      | 507-1070                                                  | 59-625                                                 | 3A         | 870                                  | 192          | 141                                  | 113                                       | 377                                     | 200                     |
| 65K-FPS-3A-6102          | 3,000 | 600                             | 1000                     | 507-1100                                                  | 59-655                                                 | 3A         | 870                                  | 195          | 141                                  | 103                                       | 364                                     | 200                     |
| 65K-FPS-3A-6103          | 3,000 | 600                             | 1040                     | 507-1140                                                  | 59-695                                                 | 3A         | 935                                  | 197          | 141                                  | 103                                       | 381                                     | 200                     |
| 65K-FPS-3A-6104          | 3,000 | 600                             | 1070                     | 507-1170                                                  | 59-725                                                 | 3A         | 935                                  | 198          | 141                                  | 102                                       | 384                                     | 200                     |
| 65K-FPS-3A-6105          | 3,000 | 600                             | 1170                     | 507-1270                                                  | 59-825                                                 | 3A         | 1035                                 | 206          | 141                                  | 102                                       | 384                                     | 200                     |
| 65K-FPS-3A-6106          | 3,000 | 600                             | 1220                     | 507-1320                                                  | 59-875                                                 | 3A         | 1035                                 | 215          | 141                                  | 102                                       | 384                                     | 200                     |
| 65K-FPS-3A-6107          | 3,000 | 600                             | 1245                     | 507-1345                                                  | 59-900                                                 | 3A         | 1035                                 | 220          | 141                                  | 102                                       | 384                                     | 200                     |
| 65K-FPS-3A-6108          | 3,000 | 600                             | 1300                     | 507-1400                                                  | 59-955                                                 | 3A         | 1035                                 | 222          | 141                                  | 102                                       | 384                                     | 200                     |

① To calculate minimum in to in dimensions with forks full out on carriers: for 100, 122, 125, 127, 130, 150, 180, 200mm wide forks subtract 200, 244, 250, 254, 260, 300, 360, 400mm respectively from "OTO" dimension.

② To calculate maximum out to out dimensions with forks full in on carriers: for 100, 122, 125, 127, 130, 150, 180mm wide forks add 200, 244, 250, 254, 260, 300, 360mm respectively to "ITI" dimension.

- ▶ Suitable for 100, 122, 125, 127, 130, 150, 180, 200mm forks.
- ▶ 200mm forks can only be placed in the forks full out position on the carrier.
- ▶ Consult Cascade for applications beyond recommended load limits.
- ▶ In order to insure that the unit best suited for the application is selected, consult Cascade.
- ▶ Forks are not included with attachment.
- ▶ Fork installation does not require welding, drilling or tapping.
- ▶ Consult Cascade for unit without load backrest.
- ▶ **DO NOT USE TO CLAMP LOADS.**



## Sideshifting

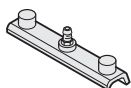
| Catalog Order No.            | kg    | Capacity @ Load Center<br>mm | Frame Width (mm)<br>A | Forks Full Out on Carrier (Out to Out) ①<br>OTO-OTO | Forks Full In on Carrier (In to In) ②<br>ITI-ITI | Mtg. Class | Min. Truck Carriage Width (mm) | Weight<br>kg | Effective Thickness (mm)<br>ET | Horizontal Ctr. of Gravity (mm)<br>HCG | Vertical Ctr. of Gravity (mm)<br>VCG | Total Sideshift (mm) |
|------------------------------|-------|------------------------------|-----------------------|-----------------------------------------------------|--------------------------------------------------|------------|--------------------------------|--------------|--------------------------------|----------------------------------------|--------------------------------------|----------------------|
| <b>With Backrest 1220 mm</b> |       |                              |                       |                                                     |                                                  |            |                                |              |                                |                                        |                                      |                      |
| <b>100K-FPS-3A-6100</b>      | 4,600 | 600                          | 1040                  | 580-1140                                            | 62-620                                           | 3A         | 935                            | 280          | 141                            | 114                                    | 361                                  | 8"                   |
| <b>100K-FPS-3A-6101</b>      | 4,600 | 600                          | 1245                  | 580-1345                                            | 62-825                                           | 3A         | 1065                           | 309          | 141                            | 113                                    | 377                                  | 8"                   |
| <b>100K-FPS-3A-6102</b>      | 4,600 | 600                          | 1550                  | 580-1650                                            | 62-1130                                          | 3A         | 1240                           | 388          | 141                            | 103                                    | 364                                  | 8"                   |
| <b>100K-FPS-3A-6103</b>      | 4,600 | 600                          | 1730                  | 580-1830                                            | 62-1310                                          | 3A         | 1470                           | 426          | 141                            | 103                                    | 381                                  | 8"                   |
| <b>100K-FPS-3A-6104</b>      | 4,600 | 600                          | 1905                  | 580-2005                                            | 62-1485                                          | 3A         | 1670                           | 453          | 141                            | 102                                    | 384                                  | 8"                   |

① To calculate minimum in to in dimensions with forks full out on carriers: for 122, 125, 127, 130, 150, 180, 200, 250mm wide forks subtract 244, 250, 254, 260, 300, 360, 400, 500mm respectively from "OTO" dimension.

② To calculate maximum out to out dimensions with forks full in on carriers: for 122, 125, 127, 130, 150, 180, 200, 250mm wide forks add 244, 250, 254, 260, 300, 360, 400, 500mm respectively to "ITI" dimension.

- ▶ Suitable for 122, 125, 127, 130, 150, 180, 200mm, 250mm forks.
- ▶ Consult Cascade for applications beyond recommended load limits.
- ▶ In order to insure that the unit best suited for the application is selected, consult Cascade.
- ▶ Forks are not included with attachment.
- ▶ Fork installation does not require welding, drilling or tapping.
- ▶ Non-sideshifting units available.
- ▶ Consult Cascade for unit without load backrest.
- ▶ **DO NOT USE TO CLAMP LOADS.**

## OPTIONS AND ACCESSORIES



### Bronze Bearings and Hooks

Recommended for highly abrasive and contaminated environments. Using both bronze upper and lower bearings may increase sideshift hydraulic pressure requirements.



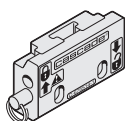
### Extended Load Center Package

For applications where the load center exceeds 48" or the fork length exceeds 96". Includes Bronze Upper Bearings and Bronze Lower Hooks.



### Cold Storage Package

For applications where temperatures may fluctuate from normal ambient to -40° F or where the unit will operate continuously in temperatures from 32° to -20°F. Includes Bronze Upper Bearings, Bronze Lower Bearings and Bronze Lower Hooks (if available).



### Quick-Disconnect Mounting Kit (Factory Install Only)

Quick-Disconnect Mounting Kits increase versatility by allowing the attachments and trucks to be interchangeable. After disconnecting hydraulic hose couplers, attachments can be interchanged in two minutes or less without the use of tools (Quick-Disconnect Hydraulic Couplers not included in kit).

### Sequence Valve - Attachment Mounted Factory Installed

Permits fork positioning at the end of the sideshift stroke. Allows fork positioning and sideshifting with a single function auxiliary hydraulic system (sideshift left to open forks, sideshift right to close forks).

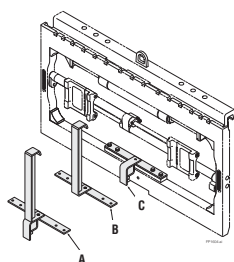
| Option                        | Order Code |
|-------------------------------|------------|
| Bronze Lower Hooks (pair)     | KIILBH     |
| Bronze Upper Bearings (pair)  | KIIUBB     |
| Bronze Lower Bearings (pair)  | KIILBB     |
| Extended Load Center Package  | KIIELP     |
| Cold Storage Package          | KIICSP     |
| Quick Disconnect Mounting Kit | KLQDIII    |
| Sequence Valve                | SV12       |

### Solenoid Valve - Attachment Mounted Factory Installed

Allows one auxiliary valve to be used for a sideshifting unit. Includes control knob.

Truck Voltage      Order Code

|     |      |
|-----|------|
| 12V | SD11 |
| 24V | SD12 |
| 36V | SD13 |
| 48V | SD14 |



### Bolt-On Protector Kits

Optional guard to prevent pallet or cylinder damage, includes fasteners.

| Option                    | Order Code |
|---------------------------|------------|
| Cylinder/Pallet Guard (A) | KLCPG      |
| Cylinder Guard Only (B)   | KLCG       |
| Pallet Guard Only (C)     | KLPG       |

## Radio Frequency Hydraulic Control

A cost-effective means to position forks on a K or L-Series Fork Positioner. Permits the use of a single auxiliary valve to control an additional hydraulic function. Includes two Li-Ion batteries, Li-Ion Universal Smart Charger and Low Profile Switch Kit. If a Control Knob is required in place of the Low Profile Switch Kit, list as a separate item on the order. Includes either a Low Profile Switch Kit or a Control Knob Kit.

| Option                                 | Order Code |
|----------------------------------------|------------|
| Radio Frequency Hydraulic Control FPS  | RFHC       |
| Li-Ion Universal Smart Battery Charger | BACH       |
| Control Knob Kit                       | 6823292    |
| JIC Installation Kit                   | 6055928    |
| ORFS Installation Kit                  | 6055932    |

## K-Series Carrier Load Backrests

| Catalog Order No. | Model            | Width (mm) | Backrest Height (mm) |
|-------------------|------------------|------------|----------------------|
| 6961299           | 55K Carrier      | 787        | 1220                 |
| 6961302           | 55K Carrier      | 919        | 1220                 |
| 6961303           | 55K Carrier      | 940        | 1220                 |
| 6961304           | 55K Carrier      | 978        | 1220                 |
| 6961305           | 55K Carrier      | 1021       | 1220                 |
| 6961306           | 55K Carrier      | 1039       | 1220                 |
| 6961307           | 55K Carrier      | 1067       | 1220                 |
| 6960937           | 55K Carrier      | 1219       | 1220                 |
| 6961311           | 55K Carrier      | 1245       | 1220                 |
| 6961329           | 55K Carrier      | 1300       | 1220                 |
| 6964730           | 65K Carrier      | 940        | 1220                 |
| 6964693           | 65K Carrier      | 970        | 1220                 |
| 6964731           | 65K Carrier      | 1001       | 1220                 |
| 6964964           | 65K Carrier      | 1039       | 1220                 |
| 6964732           | 65K Carrier      | 1069       | 1220                 |
| 6964736           | 65K Carrier      | 1171       | 1220                 |
| 6964737           | 65K Carrier      | 1219       | 1220                 |
| 6964966           | 65K Carrier      | 1245       | 1220                 |
| 6964738           | 65K Carrier      | 1300       | 1220                 |
| 6951769           | 100K Carrier     | 1039       | 1220                 |
| 6953927           | 100K Carrier     | 1245       | 1220                 |
| 6954143           | 100K Carrier     | 1549       | 1220                 |
| 6954156           | 100K Carrier     | 1730       | 1220                 |
| 6954159           | 100K Carrier     | 1905       | 1220                 |
| 6970379           | 120/150K Carrier | 1125       | 1220                 |
| 6970415           | 120/150K Carrier | 1176       | 1220                 |
| 6970473           | 120/150K Carrier | 1199       | 1220                 |
| 6970474           | 120/150K Carrier | 1219       | 1220                 |
| 6970475           | 120/150K Carrier | 1245       | 1220                 |
| 6970476           | 120/150K Carrier | 1374       | 1220                 |
| 6970477           | 120/150K Carrier | 1501       | 1220                 |
| 6970478           | 120/150K Carrier | 1524       | 1220                 |
| 6970479           | 120/150K Carrier | 1549       | 1220                 |
| 6977519           | 120/150K Carrier | 1674       | 1220                 |
| 6977521           | 120/150K Carrier | 1826       | 1220                 |
| 6977524           | 120/150K Carrier | 1900       | 1220                 |
| 6977530           | 120/150K Carrier | 1989       | 1220                 |
| 6977550           | 120/150K Carrier | 2200       | 1220                 |
| 6977556           | 120/150K Carrier | 2375       | 1220                 |

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