The HepcoMotion® PRT Fixed Center Carriage with Clamping Brake provides a safe and simple method of locking the carriage in position to facilitate processes where a secure, stationary platform is required. The brake is intended for manual locking of a stationary carriage and is available in sizes 25, 44 and 76. The brake contains two opposing jaws which when tightened via the ratchet locking lever, secures the carriage in place. Unlike some other systems, the resulting clamping force does not load the bearings or deflect the carriage even when a high force is applied.

Due to the position of the brake on the carriage, it is not possible to traverse from a ring segment to a straight slide, therefore these carriages are not suitable for use with track systems and can only be used on ring slides and segments.

Notes:
1. Carriages are normally recommended to be ordered complete with lubricators, it will not be necessary for all carriages to be fitted with lubricators. Accumulative high friction may also result. Please contact Bishop-Wisecarver’s technical department for advice.
2. For details on double row and nitrile sealed bearings please see the GV3 Linear Guidance and Transmission System catalog page 28-29.
3. Controlled height bearings are selected within ±0.010mm in respect to vee height. Specifying this option provides best parallelism on height dimension D and will ensure that carriages in one order will match to a close tolerance. For more information contact Bishop-Wisecarver’s technical department.
Data and Dimensions

A standard range of carriages are available from stock with right handed brakes as shown below. Left handed versions are available to order (see page 4). The position of the ratchet locking lever is reversible so that they can be fitted on the inside of the ring or segment if required.

### Notes:
1. Fixed center carriages with clamping brakes are not available for rings and segments smaller than R25-255.
2. Offset holes in carriage for eccentric bearings necessitate adjustment rotation in the direction shown.
3. Dimension Y2 is with the locking lever in the disengaged position.
4. These fixed center carriages with clamping brake are designed to suit larger rings (R76 1267 & R76 1501) than are currently detailed in the PRT catalog. Please contact Bishop-Wisecarver’s technical department for details.
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### Data and Dimensions

| Part Number | For Use With | A | A1 | A2 | B | B1 | C | C1 | C2 | D | E | F | G | H | I | J | K | L | M | N | O |
|-------------|--------------|---|----|----|---|----|---|----|----|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FCC25 255BK | R25 255 | 100 | 90.4 | 126 | 80 | 30 | 80 | 36.5 | 85 | 30.5 | 20.5 | 46 | 43.6 | 19.55 | 24.31 | 16 | 15.9 | 14 | 5.3 x 4.5 | 3.2 |
| FCC25 351BK | R25 351 | 105 | 99.4 | 127 | 80 | 50 | 85 | 40 | 90 | 30.5 | 20.5 | 46 | 45.6 | 20.45 | 25.21 | 16 | 15.6 | 14 | 5.3 x 4.5 | 3.2 |
| FCC44 468BK | R44 468 | 145 | 135.6 | 176 | 116 | 75 | 120 | 65 | 125 | 38.5 | 26 | 71.9 | 75.95 | 35.22 | 40.73 | 22 | 25.6 | 23 | 5.3 x 4.5 | 3.2 |
| FCC44 612BK | R44 612 | 150 | 141.6 | 174 | 116 | 75 | 125 | 70 | 130 | 38.5 | 26 | 71.9 | 78.80 | 36.64 | 42.16 | 22 | 25.5 | 23 | 5.3 x 4.5 | 3.2 |
| FCC76 799BK | R76 799 | 190 | 183.3 | 233.5 | 185 | 100 | 160 | 90 | 165 | 58.5 | 39 | 118.5 | 104.56 | 49.13 | 55.44 | 33 | 43 | 40 | 8 x 6.0 | 3.8 |
| FCC76 1033BK | R76 1033 | 210 | 207.4 | 249.5 | 185 | 100 | 160 | 115 | 185 | 58.5 | 39 | 118.5 | 123.48 | 58.59 | 64.90 | 33 | 43 | 40 | 8 x 6.0 | 3.8 |
| FCC76 1267BK | R76 1267 | 250 | 238.6 | 299 | 185 | 100 | 205 | 130 | 225 | 58.5 | 39 | 118.5 | 142.82 | 68.26 | 74.57 | 33 | 43 | 40 | 8 x 6.0 | 3.8 |
| FCC76 1501BK | R76 1501 | 270 | 270 | 305.5 | 185 | 100 | 225 | 150 | 245 | 58.5 | 39 | 118.5 | 162.38 | 78.04 | 84.35 | 33 | 43 | 40 | 8 x 6.0 | 3.8 |

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