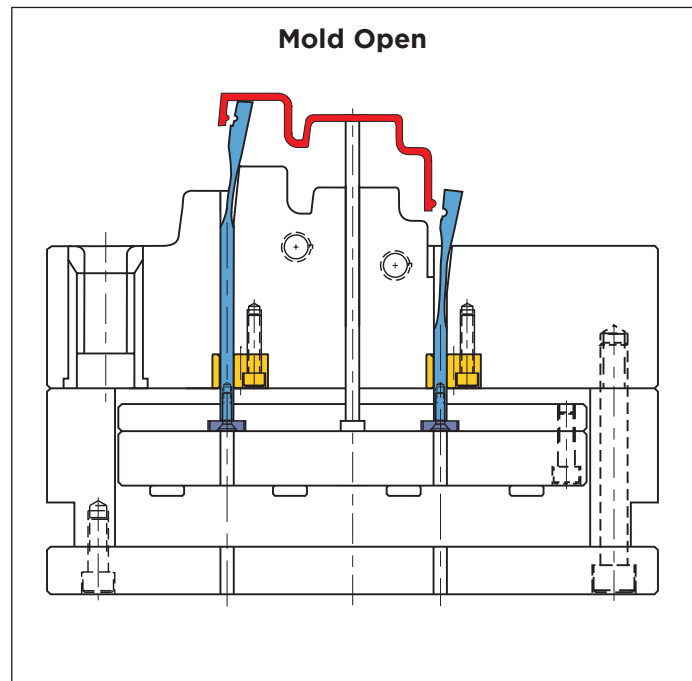
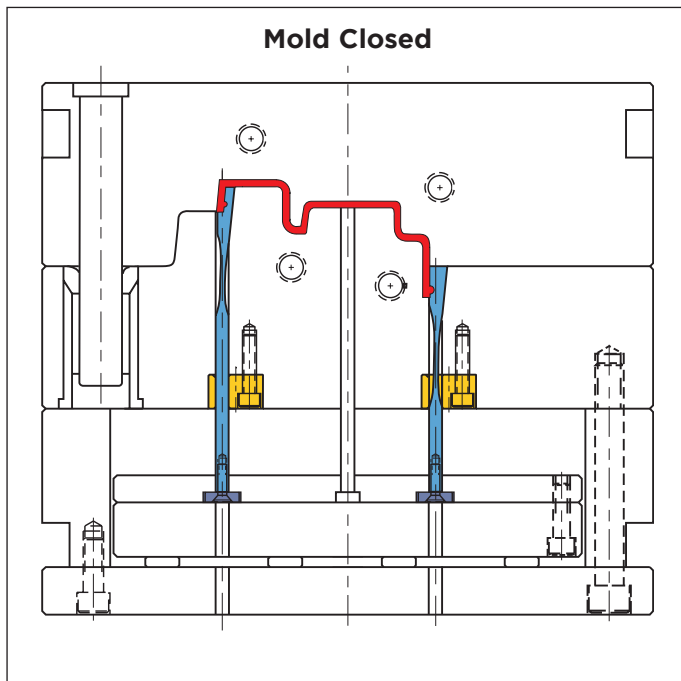
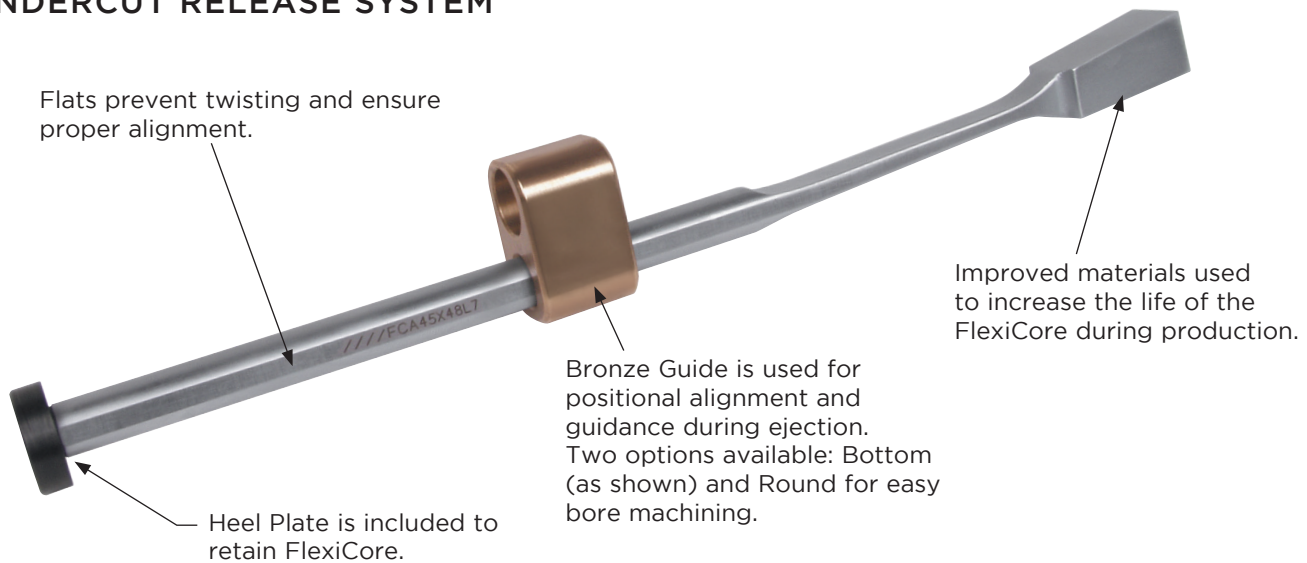
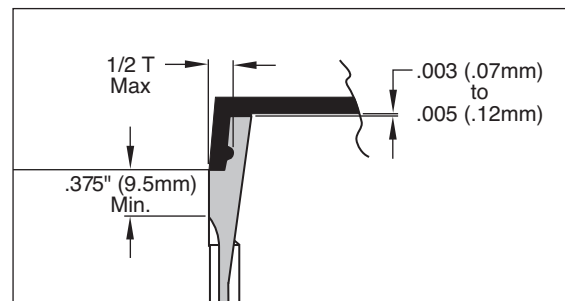


# FLEXICORE™ UNDERCUT RELEASE SYSTEM



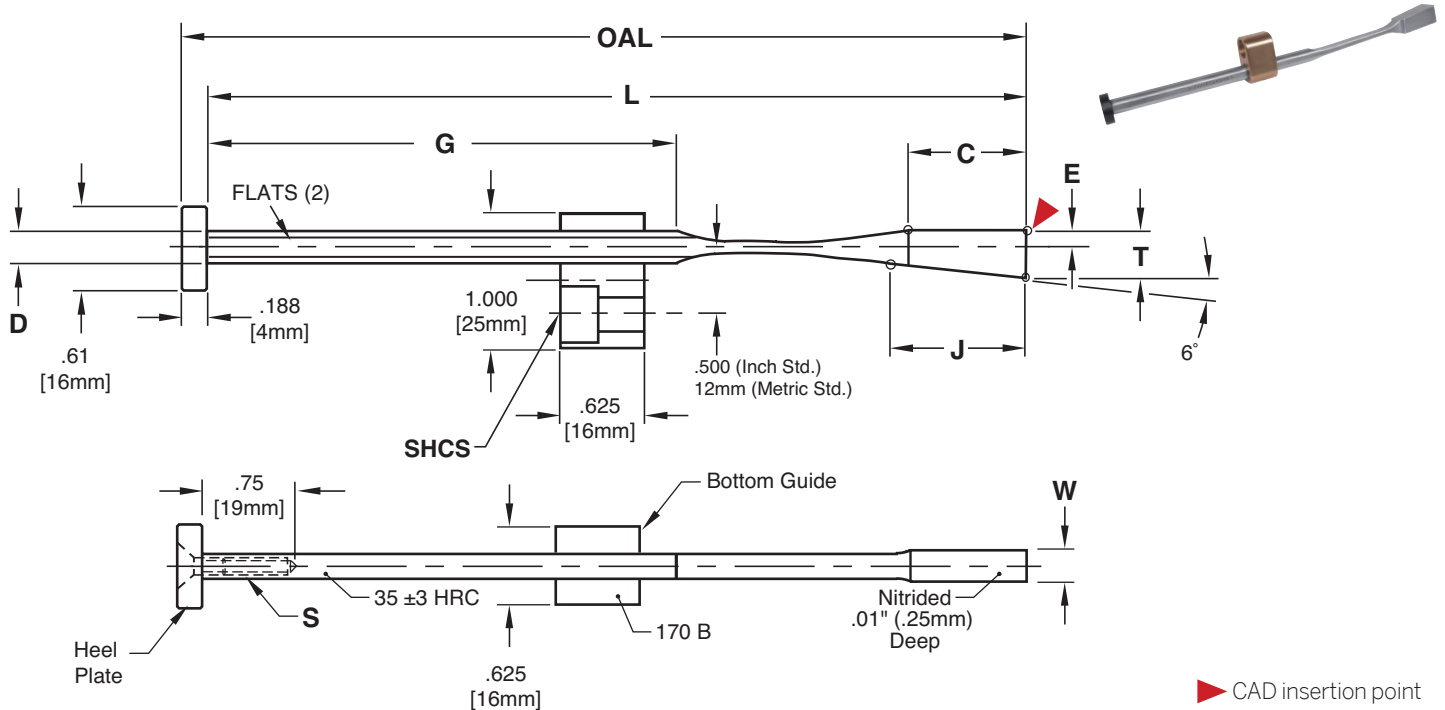
## APPLICATION GUIDELINES

- The FlexiCore diameter (D) must be within the Guide prior to ejection as shown above.
- Only surface treatments applied at low temperatures such as Electroless Nickel-based or chromium deposition treatments are permitted.
- Maximum temperature is 250°F (125°C).
- FlexiCore Assembly includes: FlexiCore, Bronze Guide (Bottom or Round), Heel Plate, and Flat Head Cap Screw.
- Please contact [tech@procomps.com](mailto:tech@procomps.com) to review any designs if questions arise or if your application differs from the examples shown.





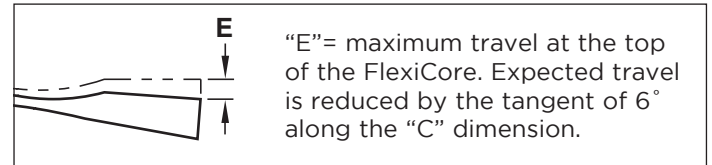
# FLEXICORE™ BOTTOM GUIDE ASSEMBLY



► CAD insertion point

## APPLICATION GUIDELINES

- The FlexiCore can be cut down and re-tapped to accommodate specific applications.
- Assemblies include FlexiCore, Bottom Guide, Heel Plate, and Flat Head Cap Screw.
- Assembly components also sold individually on page H-23.



## Inch Standard

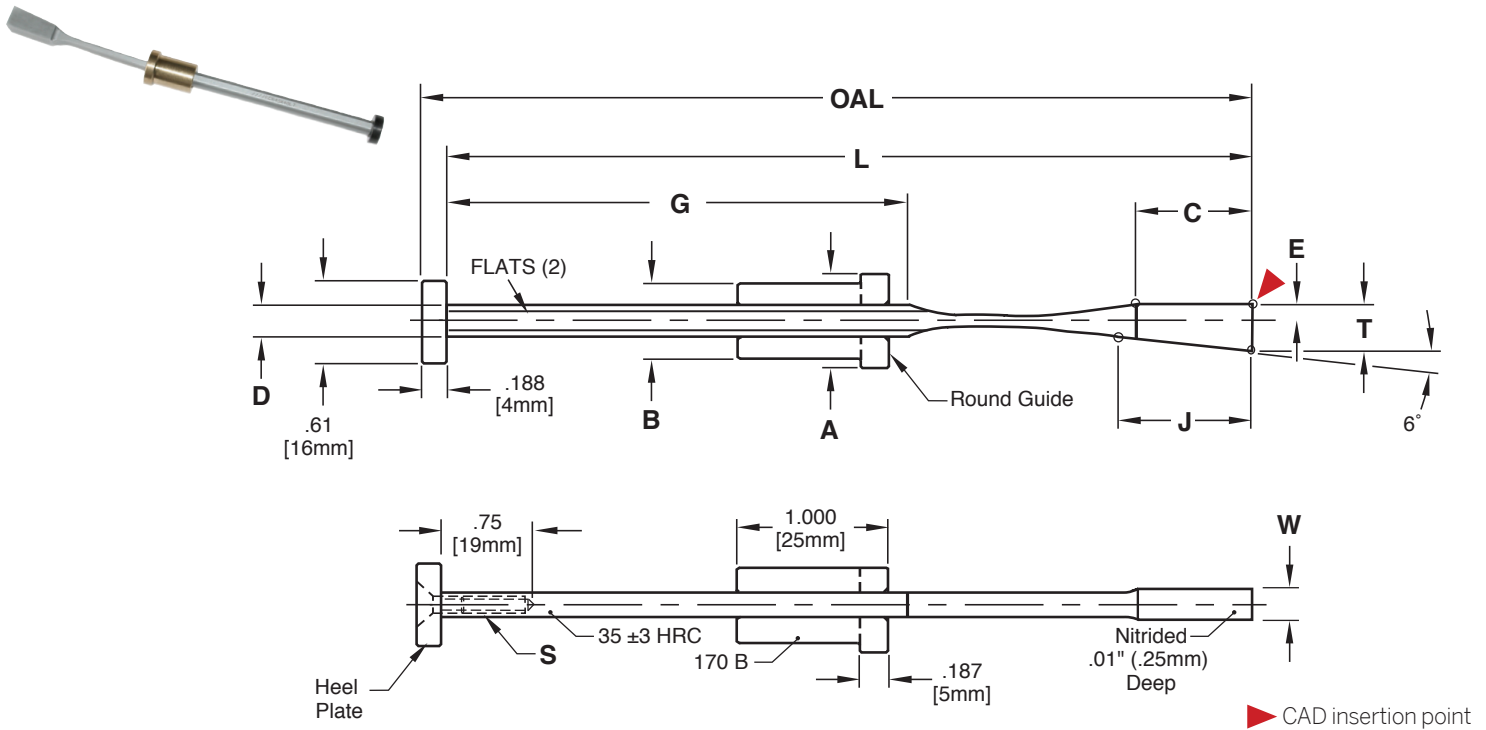
**M** FlexiCore: AISI 4340 with thin, dense Chromium treatment, Guide: CA954 Solid Bronze, Heel Plate: AISI 1018

| CATALOG NUMBER | T<br>+.002<br>-.000 | W<br>+.002<br>-.000 | L<br>+.010<br>-.000 | OAL<br>REF | D<br>+.000<br>-.001 | C<br>±.015 | E    | G<br>+.01<br>-.00 | J     | S<br>(INCLUDED) | SHCS   |
|----------------|---------------------|---------------------|---------------------|------------|---------------------|------------|------|-------------------|-------|-----------------|--------|
| FCA35X24L6     | .354                | .244                | 6.400               | 6.588      | .234                | .875       | .137 | 3.49              | .957  | #8-32 x 3/8     | 1/4-20 |
| FCA35X32L6     | .354                | .322                | 6.400               | 6.588      | .250                | .875       | .137 | 3.48              | .957  | #8-32 x 3/8     | 1/4-20 |
| FCA45X40L7     | .453                | .401                | 7.875               | 8.062      | .312                | 1.000      | .177 | 4.38              | 1.025 | #10-24 x 1/2    | 1/4-20 |
| FCA45X48L7     | .453                | .480                | 7.875               | 8.062      | .312                | 1.000      | .177 | 4.38              | 1.025 | #10-24 x 1/2    | 1/4-20 |

## Metric Standard

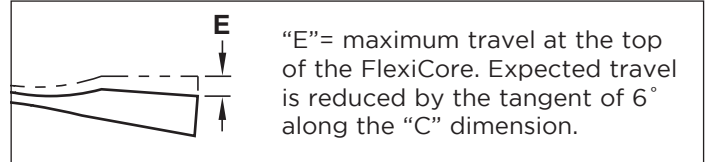
| CATALOG NUMBER | T<br>+.05<br>-.00 | W<br>+.05<br>-.00 | L<br>+.25<br>-.00 | OAL<br>REF | D<br>+.000<br>-.025 | C<br>±.35 | E   | G<br>+.25<br>-.00 | J    | S<br>(INCLUDED) | SHCS |
|----------------|-------------------|-------------------|-------------------|------------|---------------------|-----------|-----|-------------------|------|-----------------|------|
| FCA9X6L160     | 9                 | 6.2               | 162.5             | 166.5      | 5.94                | 22        | 3.5 | 88.6              | 24.3 | M4-0.7 x 12     | M6-1 |
| FCA9X8L160     | 9                 | 8.2               | 162.5             | 166.5      | 6.35                | 22        | 3.5 | 88.4              | 24.3 | M4-0.7 x 12     | M6-1 |
| FCA11X10L200   | 11.5              | 10.2              | 200.0             | 204.0      | 7.92                | 26        | 4.5 | 111.2             | 26.0 | M5-0.8 x 14     | M6-1 |
| FCA11X12L200   | 11.5              | 12.2              | 200.0             | 204.0      | 7.92                | 26        | 4.5 | 111.2             | 26.0 | M5-0.8 x 14     | M6-1 |
| FCA12X14L200   | 12.5              | 14.2              | 200.0             | 204.0      | 7.92                | 30        | 4.5 | 107.2             | 28.5 | M5-0.8 x 14     | M6-1 |
| FCA12X16L200   | 12.5              | 16.2              | 200.0             | 204.0      | 7.92                | 30        | 4.5 | 107.2             | 28.5 | M5-0.8 x 14     | M6-1 |

# FLEXICORE™ ROUND GUIDE ASSEMBLY



## APPLICATION GUIDELINES

- The FlexiCore can be cut down and re-tapped to accommodate specific applications.
- Assemblies include FlexiCore, Round Guide, Heel Plate, and Flat Head Cap Screw.
- Assembly components also sold individually on page H-23.



## Inch Standard

**M** FlexiCore: AISI 4340 with thin, dense Chromium treatment, Guide: CA954 Solid Bronze, Heel Plate: AISI 1018

| CATALOG NUMBER | T<br>+.002<br>-.000 | W<br>+.002<br>-.000 | L<br>+.010<br>-.000 | OAL<br>REF | D<br>+.000<br>-.001 | C<br>±.015 | E    | G<br>+.01<br>-.00 | J     | S<br>(INCLUDED) | A    | B    |
|----------------|---------------------|---------------------|---------------------|------------|---------------------|------------|------|-------------------|-------|-----------------|------|------|
| FCR35X24L6     | .354                | .244                | 6.400               | 6.588      | .234                | .875       | .137 | 3.49              | .957  | #8-32 x 3/8     | .625 | .500 |
| FCR35X32L6     | .354                | .322                | 6.400               | 6.588      | .250                | .875       | .137 | 3.48              | .957  | #8-32 x 3/8     | .625 | .500 |
| FCR45X40L7     | .453                | .401                | 7.875               | 8.062      | .312                | 1.000      | .177 | 4.38              | 1.025 | #10-24 x 1/2    | .750 | .625 |
| FCR45X48L7     | .453                | .480                | 7.875               | 8.062      | .312                | 1.000      | .177 | 4.38              | 1.025 | #10-24 x 1/2    | .750 | .625 |

## Metric Standard

| CATALOG NUMBER | T<br>+.05<br>-.00 | W<br>+.05<br>-.00 | L<br>+.25<br>-.00 | OAL<br>REF | D<br>+.000<br>-.025 | C<br>±.35 | E   | G<br>+.25<br>-.00 | J    | S<br>(INCLUDED) | A  | B  |
|----------------|-------------------|-------------------|-------------------|------------|---------------------|-----------|-----|-------------------|------|-----------------|----|----|
| FCR9X6L160     | 9                 | 6.2               | 162.5             | 166.5      | 5.94                | 22        | 3.5 | 88.6              | 24.3 | M4-0.7 x 12     | 16 | 12 |
| FCR9X8L160     | 9                 | 8.2               | 162.5             | 166.5      | 6.35                | 22        | 3.5 | 88.4              | 24.3 | M4-0.7 x 12     | 16 | 12 |
| FCR11X10L200   | 11.5              | 10.2              | 200.0             | 204.0      | 7.92                | 26        | 4.5 | 111.2             | 26.0 | M5-0.8 x 14     | 20 | 16 |
| FCR11X12L200   | 11.5              | 12.2              | 200.0             | 204.0      | 7.92                | 26        | 4.5 | 111.2             | 26.0 | M5-0.8 x 14     | 20 | 16 |
| FCR12X14L200   | 12.5              | 14.2              | 200.0             | 204.0      | 7.92                | 30        | 4.5 | 107.2             | 28.5 | M5-0.8 x 14     | 20 | 16 |
| FCR12X16L200   | 12.5              | 16.2              | 200.0             | 204.0      | 7.92                | 30        | 4.5 | 107.2             | 28.5 | M5-0.8 x 14     | 20 | 16 |

▶ CAD insertion point

- “E”= maximum travel at the top of the FlexiCore. Expected travel is reduced by the tangent of 6° along the “C” dimension.

**M** FlexiCore: AISI 4340 with thin, dense Chromium treatment, Guide: CA954 Solid Bronze, Heel Plate: AISI 1018

| CATALOG<br>NUMBER | T<br>+.05<br>-.00 | W<br>+.05<br>-.00 | L<br>+.25<br>-.00 | OAL<br>REF | D<br>+.000<br>-.025 | C<br>±.035 | E   | G<br>+.25<br>-.00 | J<br>+.01<br>-.00 | S<br>(INCLUDED-2) |
|-------------------|-------------------|-------------------|-------------------|------------|---------------------|------------|-----|-------------------|-------------------|-------------------|
| FCDA9X6L160       | 9                 | 6.2               | 162.5             | 166.5      | 5.94                | 22         | 3.5 | 88.6              | 24.3              | M4-0.7 x 12       |
| FCDA11X12L200     | 11.5              | 12.2              | 200.0             | 204.0      | 7.92                | 26         | 4.5 | 111.2             | 26.0              | M5-0.8 x 14       |
| FCDA12X14L200     | 12.5              | 14.2              | 200.0             | 204.0      | 7.92                | 30         | 4.5 | 107.2             | 28.5              | M5-0.8 x 14       |
| FCDA12X16L200     | 12.5              | 16.2              | 200.0             | 204.0      | 7.92                | 30         | 4.5 | 107.2             | 28.5              | M5-0.8 x 14       |

# FLEXICORE™ ACCESSORIES WEAR BLOCKS

## Inch Standard

**M** H-13 **H** 44-46 HRC, Nitrided .005-.007" Deep

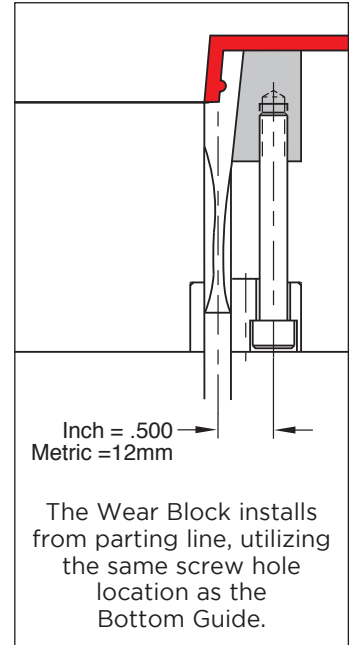
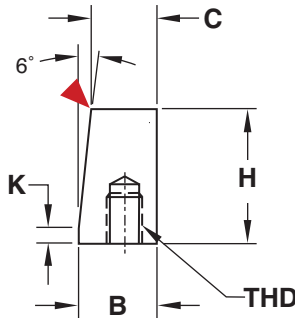
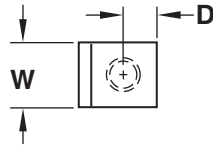
| CATALOG NUMBER | W<br>+.002<br>-.000 | D<br>±.01 | B<br>+.001<br>-.000 | C<br>+.001<br>-.000 | H     | K    | THD    |
|----------------|---------------------|-----------|---------------------|---------------------|-------|------|--------|
| FCWB-24        | .244                | .250      | .626                | .533                | 1.000 | .115 | #10-24 |
| FCWB-32        | .322                | .250      | .626                | .533                | 1.000 | .115 | 1/4-20 |
| FCWB-40        | .401                | .250      | .567                | .474                | 1.000 | .115 | 1/4-20 |
| FCWB-48        | .480                | .250      | .567                | .474                | 1.000 | .115 | 1/4-20 |

Note: FCWB-24 is designed for use with a 1/4ø shoulder bolt.

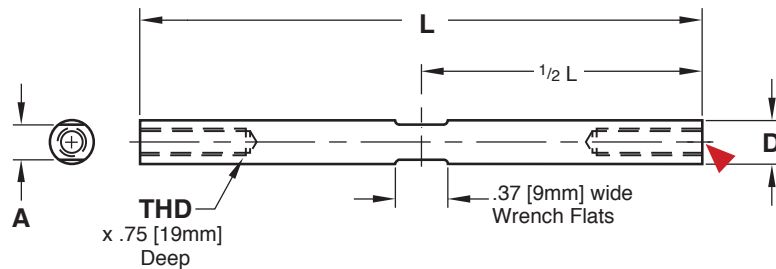
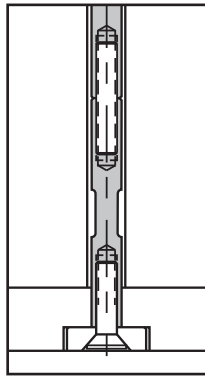
## Metric Standard

| CATALOG NUMBER | W<br>+.05<br>-.00 | D<br>±.25 | B<br>+.025<br>-.000 | C<br>+.025<br>-.000 | H    | K   | THD    |
|----------------|-------------------|-----------|---------------------|---------------------|------|-----|--------|
| FCWBM-6        | 6.2               | 7.2       | 15.9                | 13.55               | 25.4 | 2.9 | M5-0.8 |
| FCWBM-8        | 8.2               | 7.2       | 15.9                | 13.55               | 25.4 | 2.9 | M6-1   |
| FCWBM-10       | 10.2              | 7.2       | 14.4                | 12.05               | 25.4 | 2.9 | M6-1   |
| FCWBM-12       | 12.2              | 7.2       | 14.4                | 12.05               | 25.4 | 2.9 | M6-1   |
| FCWBM-14       | 14.2              | 8.0       | 15.2                | 12.11               | 33.2 | 3.5 | M6-1   |
| FCWBM-16       | 16.2              | 8.0       | 15.2                | 12.11               | 33.2 | 3.5 | M6-1   |

► CAD insertion point



## EXTENSIONS



## Inch Standard

**M** 4140 Pre-Hard **S** Black Oxide

| D<br>+.000<br>-.005 | THD    | A    | L<br>+.01<br>-.00 |
|---------------------|--------|------|-------------------|
|                     |        |      | 2" 4"             |
| .232                | #8-32  | .187 | FCX8L2 FCX8L4     |
| .310                | #10-24 | .250 | FCX10L2 FCX10L4   |

Includes threaded stud for attachment to FlexiCore.

## Metric Standard

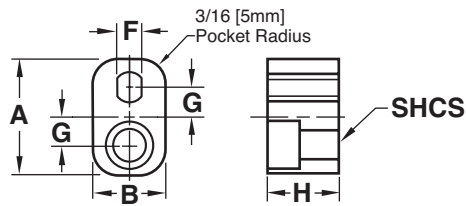
**M** 4140 Pre-Hard **S** Black Oxide

► CAD insertion point

| D<br>+.00<br>-.12 | THD  | A   | L<br>+.25<br>-.00  |
|-------------------|------|-----|--------------------|
|                   |      |     | 50MM 100MM         |
| 6                 | M4-7 | 4.8 | FCXM4L50 FCXM4L100 |
| 8                 | M5-8 | 6.3 | FCXM5L50 FCXM5L100 |



# FLEXICORE™ ACCESSORIES REPLACEMENT GUIDES

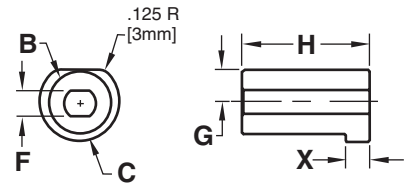


## Bottom Guides: Inch/Metric Standard

**M** CA954 Solid Bronze

| CATALOG NUMBER | A     | B    | H    | F    | G    | SHCS   |
|----------------|-------|------|------|------|------|--------|
| <b>FCBG-24</b> | 1.000 | .625 | .625 | .190 | .250 | 1/4-20 |
| <b>FCBG-32</b> | 1.000 | .625 | .625 | .200 | .250 | 1/4-20 |
| <b>FCBG-40</b> | 1.000 | .625 | .625 | .290 | .250 | 1/4-20 |
| <b>FCBG-6</b>  | 25    | 16   | 16   | 4.8  | 6    | M6-1   |
| <b>FCBG-8</b>  | 25    | 16   | 16   | 5.0  | 6    | M6-1   |
| <b>FCBG-10</b> | 25    | 16   | 16   | 7.3  | 6    | M6-1   |

Screws included.



## Round Guides: Inch/Metric Standard

**M** CA954 Solid Bronze

| CATALOG NUMBER | B     | C    | H     | F    | X    | G    |
|----------------|-------|------|-------|------|------|------|
| <b>FCRG-24</b> | .5000 | .625 | 1.000 | .190 | .187 | .250 |
| <b>FCRG-32</b> | .5000 | .625 | 1.000 | .200 | .187 | .250 |
| <b>FCRG-40</b> | .6250 | .750 | 1.000 | .290 | .187 | .312 |
| <b>FCRG-6</b>  | 12    | 16   | 25    | 4.8  | 5    | 6    |
| <b>FCRG-8</b>  | 12    | 16   | 25    | 5.0  | 5    | 6    |
| <b>FCRG-10</b> | 16    | 20   | 25    | 7.3  | 5    | 8    |

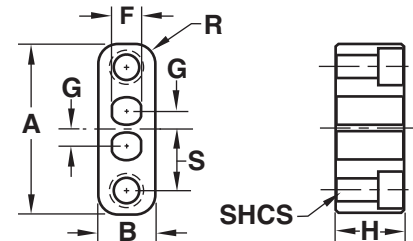
Screws included.

## Double Actuation: Inch/Metric Standard

**M** CA954 Solid Bronze

| CATALOG NUMBER  | A     | B    | H    | F    | G    | R    | S    | SHCS   |
|-----------------|-------|------|------|------|------|------|------|--------|
| <b>FCDBG-24</b> | 1.750 | .625 | .750 | .190 | .136 | .218 | .636 | 1/4-20 |
| <b>FCDBG-48</b> | 1.875 | .625 | .750 | .290 | .176 | .218 | .676 | 1/4-20 |
| <b>FCDBG-6</b>  | 45    | 16   | 20   | 4.8  | 3.5  | 5    | 15.5 | M6-1   |
| <b>FCDBG-12</b> | 48    | 16   | 20   | 7.3  | 4.5  | 5    | 16.5 | M6-1   |

Screws included.



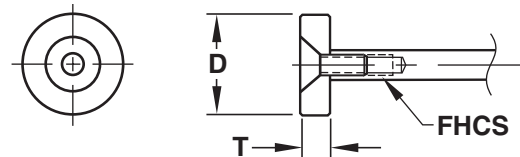
## REPLACEMENT HEEL PLATES

### Inch/Metric Standard

**M** 4140 Pre-Hard **S** Black Oxide

| CATALOG NUMBER | D   | T    | FHCS         |
|----------------|-----|------|--------------|
| <b>FCHP-8</b>  | .61 | .188 | #8-32 x 3/8  |
| <b>FCHP-10</b> | .61 | .188 | #10-24 x 1/2 |
| <b>FCHP-4</b>  | 16  | 4    | M4-0.7 x 12  |
| <b>FCHP-5</b>  | 16  | 4    | M5-0.8 x 14  |

Screws included.



### Double Actuation: Inch/Metric Standard

**M** 4140 Pre-Hard **S** Black Oxide

| CATALOG NUMBER  | S    | D    | T    | FHCS         |
|-----------------|------|------|------|--------------|
| <b>FCDHP-8</b>  | .272 | .750 | .188 | #8-32 x 3/8  |
| <b>FCDHP-10</b> | .352 | .875 | .188 | #10-24 x 1/2 |
| <b>FCDHP-4</b>  | 7    | 20   | 6    | M4-0.7 x 12  |
| <b>FCDHP-5</b>  | 9    | 22   | 6    | M5-0.8 x 14  |

Screws included.

