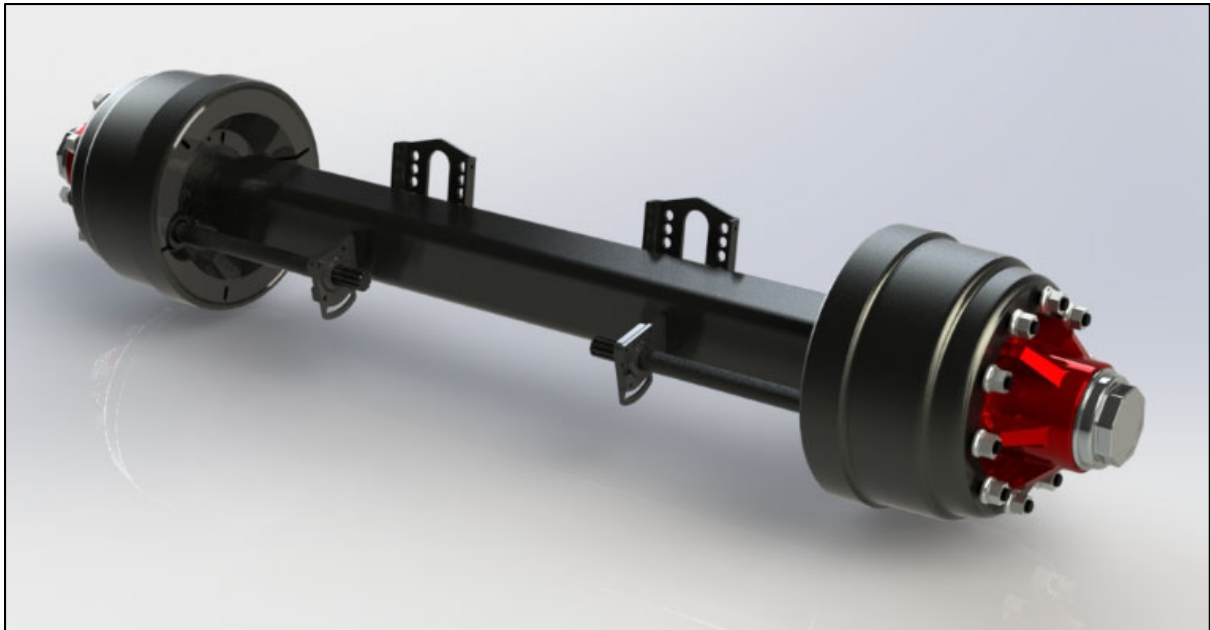


## **420 X 180 – 980 SERIES AXLES**



**980 series axle is TUV tested to 11000Kg, please see website for test report.**

**Axle components rated to carry 16000kg**

**335mm PCD, 10 stud M22 hub and drum. 280.8mm hub pilot.**

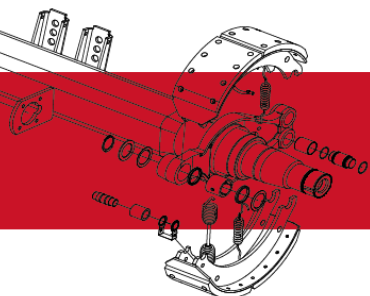
**Available in single and twin wheel stud.**

**External Drum Arrangement**

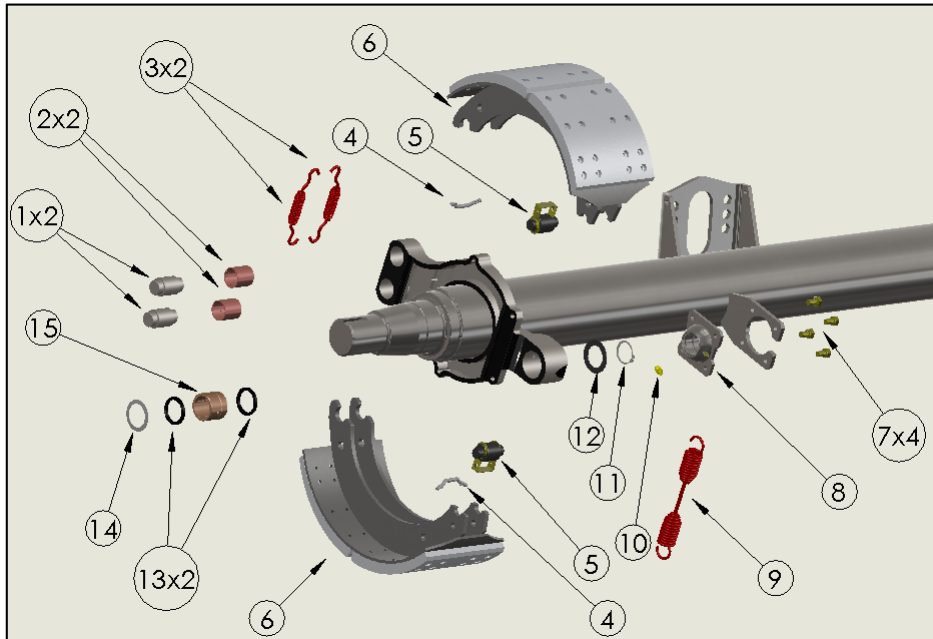
**10 spline camshaft. Available in 150mm Square Beam only.**

**Service manual available on website**

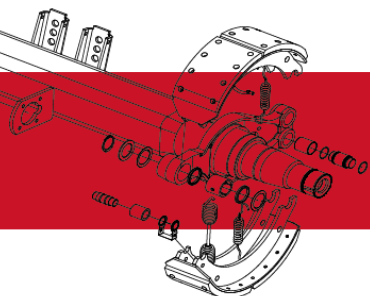
**Please see following pages for part identification**



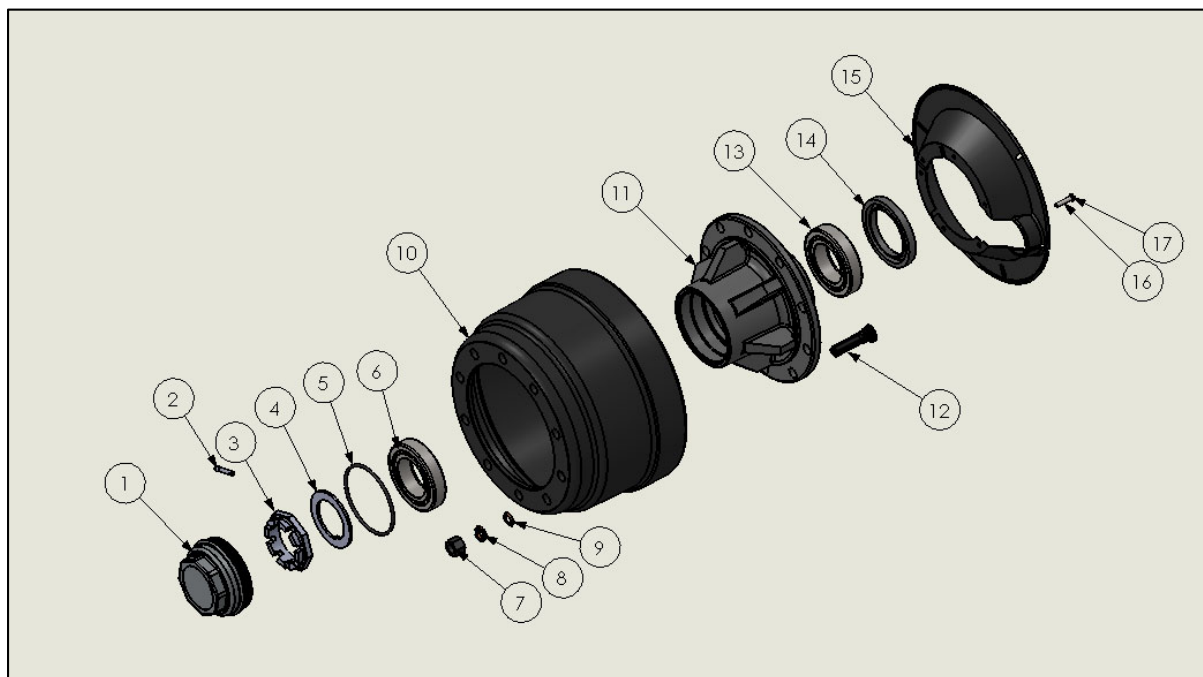
## 420 x 180 – 980 Series Brake Shoe Assembly



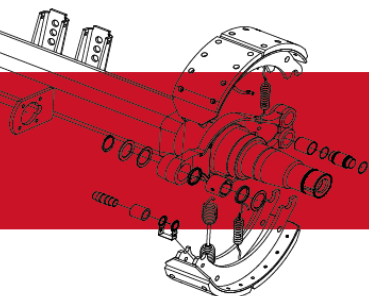
| Item | Description                     | Part No. | QTY per Axle. |
|------|---------------------------------|----------|---------------|
| 1    | Anchor Pin                      | 61171    | 4             |
| 2    | Anchor Pin Bush                 | 20067    | 4             |
| 3    | Brake Shoe Retaining Spring     | 61141    | 4             |
|      | <b>Brake Shoe Assembly</b>      | 61157FA  | 4             |
| (4)  | Spring Anchor Bar               | 61150    | 4             |
| (5)  | Retainer Cam Roller             | 20064    | 4             |
|      | One Piece Cam Roller            | 61235    | 4             |
| (6)  | Brake Shoe                      | 61157F   | 4             |
| 7    | Hex Bolt M8x30                  | 61831    | 8             |
| 7b   | M8 lock nut                     | 61832    | 8             |
| 7c   | M8 washer                       | 61833    | 8             |
| 8    | Spherical bearing               | 20080    | 2             |
| 9    | Return Spring                   | 61140    | 2             |
| 10   | Grease Nipple                   | 61110    | 2             |
| 11   | Circlip                         | 61120    | 2             |
| 12   | Camshaft 1mm Washer             | 96365F   | 2             |
| 13   | Camshaft Grease Seal            | 61056    | 4             |
| 14   | Camshaft 2mm Washer             | 61058    | 2             |
| 15   | Camshaft Sintered Bush          | 20110    | 2             |
| 16   | Slack adjusters pull off spring | 61142    | 2             |



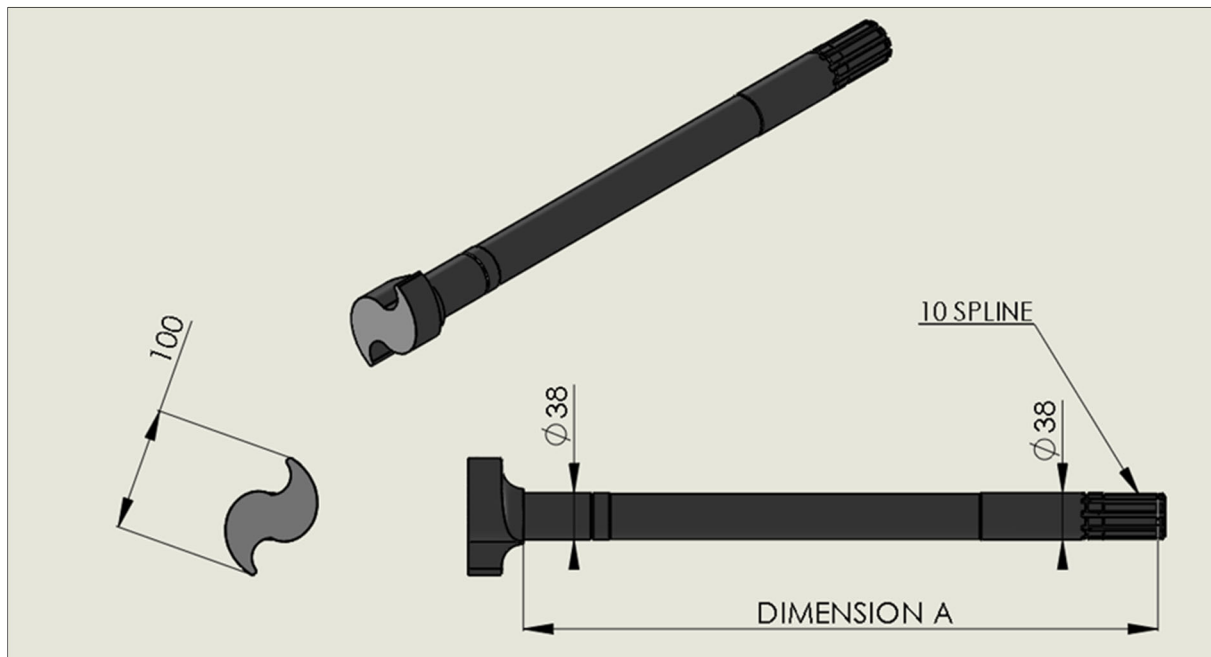
## 420 x 180 – 980 Series Hub/Drum Assembly **EXTERNAL DRUM**



| Item | Description                  | Part Number | QTY per Axle |
|------|------------------------------|-------------|--------------|
| 1    | Hub Cap                      | 20000       | 2            |
| 2    | Hub Cap Split Pin            | 20059       | 2            |
| 3    | Spindle Castle Nut           | 20060       | 2            |
| 4    | Spindle Washer               | 20058       | 2            |
| 5    | Hub Cap Seal                 | 20001       | 2            |
| 6    | Outer Bearing (HM518410/445) | 20002       | 2            |
| 7.1  | ISO Wheel Nut                | 61381Z      | 20           |
| 7.2  | DIN Wheel Nut                | 61383       | 20           |
| 8    | DIN Nut outer washer         | 61372       | 20           |
| 9    | DIN Nut inner washer         | 61371       | 20           |
| 10   | External Drum                | 20008       | 2            |
| 11   | Hub                          | 20122       | 2            |
| 12.1 | Wheel Bolt – Single (82mm)   | 20201       | 20           |
| 12.2 | Wheel Bolt – Twin (94mm)     | 20200       | 20           |
| 13   | Inner Bearing (HM220149/110) | 20124       | 2            |
| 14   | Hub Seal                     | 20123       | 2            |
| 15   | Dust Cover                   | 61390F      | 2            |
| 16   | Dust Cover Washer            | 20016       | 12           |
| 17   | Dust Cover Bolt (M8)         | 61358F      | 12           |
| 18   | Dust cover -plug             | 61556       | 4            |



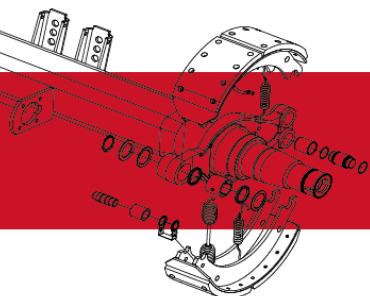
## 420 x 180 – 980 Series 10 Spline Camshaft Parts List



| Dimension A                   | Part No. |
|-------------------------------|----------|
| 700mm – Left Hand Large Head  | 61629    |
| 700mm – Right Hand Large Head | 61628    |
| 212mm – Left Hand Large Head  | 61061    |
| 212mm – Right Hand Large Head | 61071    |
| 519mm – Left Hand Large Head  | 61065    |
| 519mm – Right Hand Large Head | 61075    |
| 680mm – Left Hand Large Head  | 61151    |
| 680mm – Right Hand Large Head | 61152    |
| 189mm – Left Hand Large Head  | 61127    |
| 189mm – Right Hand Large Head | 61147    |
| 250mm – Left Hand Large Head  | 61138    |
| 250mm – Right Hand Large Head | 61148    |

Camshaft lengths are measured from under head to the Centre of last circlip groove.

The illustrated camshaft is a left hand camshaft. When looking at the head of the camshaft a right hand cam is Z shaped and a left hand is S shaped.

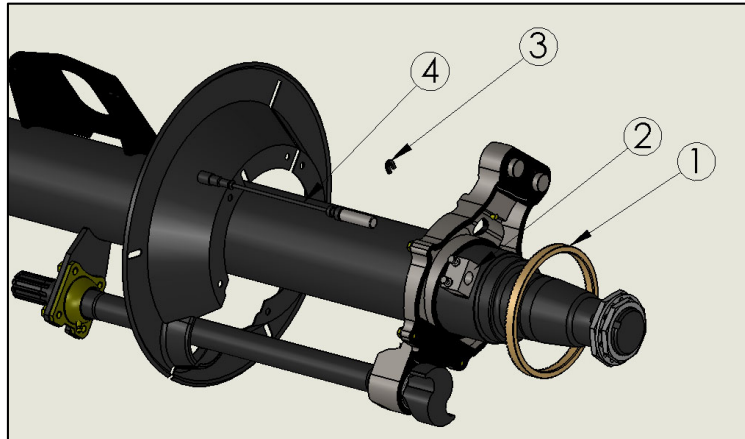




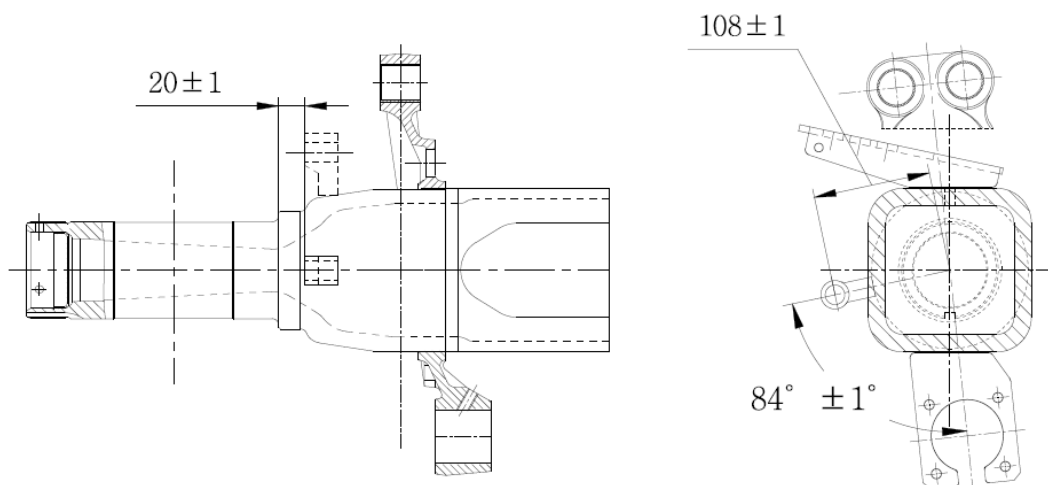
# granning

axle and suspension solutions

## ABS/Anti-Lock Assembly



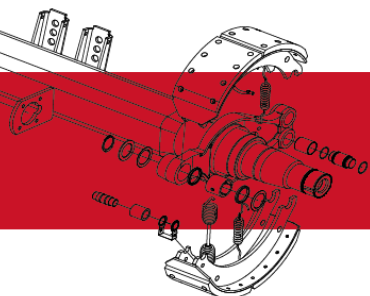
| Item | Description                                | Part No. |
|------|--------------------------------------------|----------|
| 1    | Pole Wheel (100 tooth)                     | 20126    |
| 2    | Sensor Block                               | 20125    |
| 3    | Dust Cover Grommet                         | 61557    |
| 4    | Single Sensor Lead Kit (Sensor/Bush/Paste) | 61790F   |



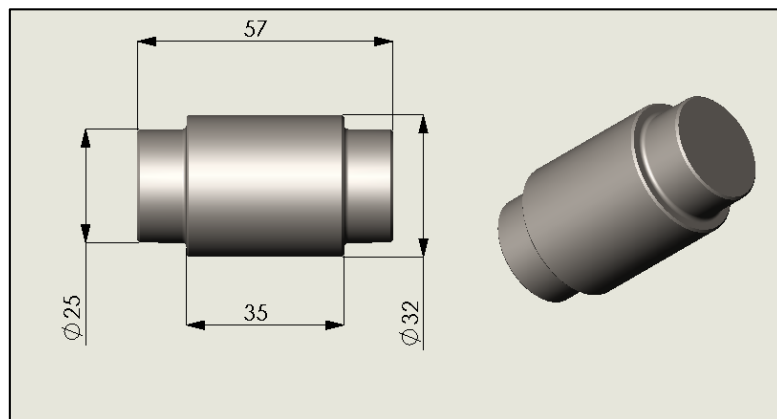
ABS sensor at 216mm PCD

Face of sensor block 20mm from large bearing shoulder

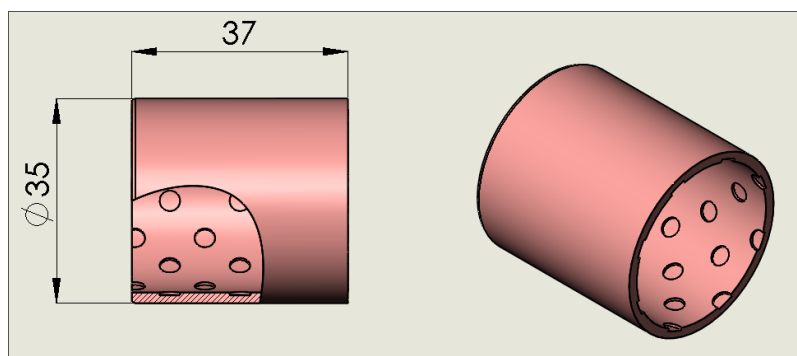
ABS Block welded 84Degrees from the camshaft axle center line. After fitting ABS sensor check the sensor is working properly.



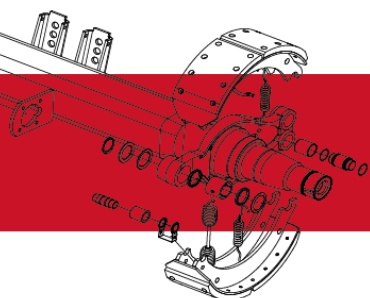
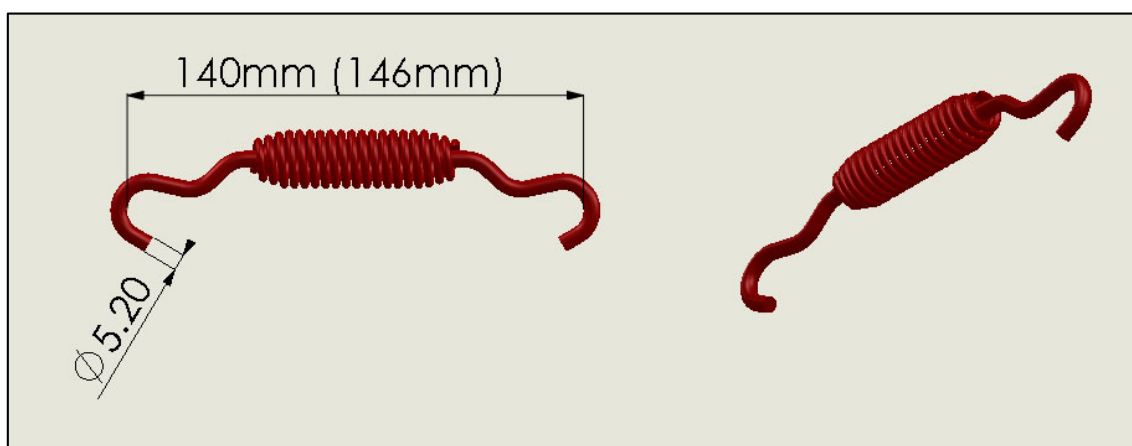
### 61171 – Anchor pin



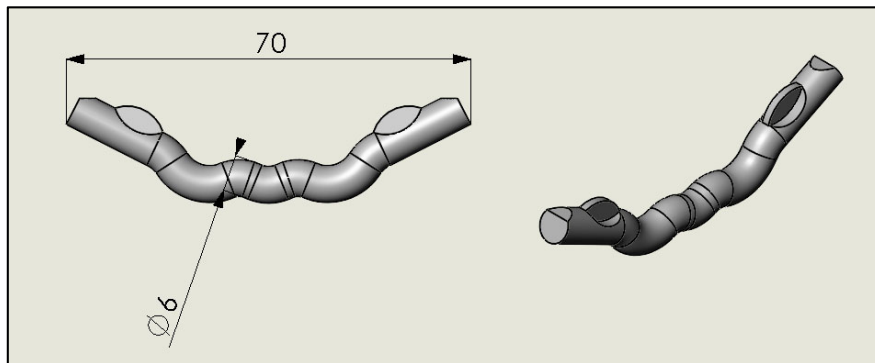
### 20067 (61200B) – Bush Anchor Pin



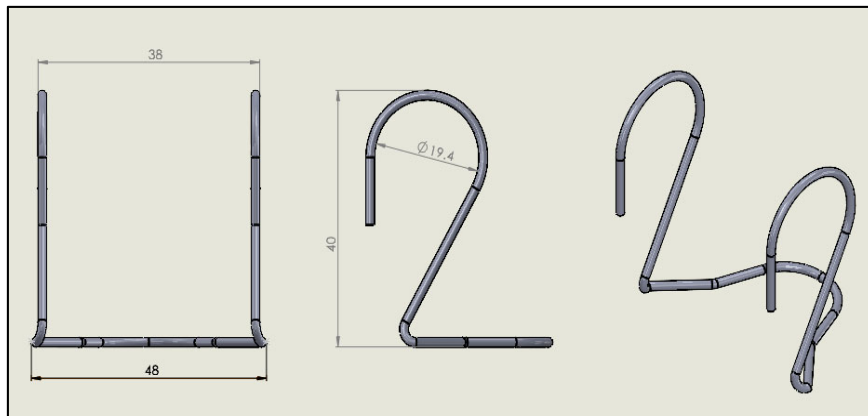
### 61141 – Brake Shoe Retaining Spring



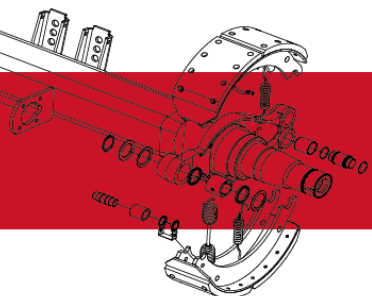
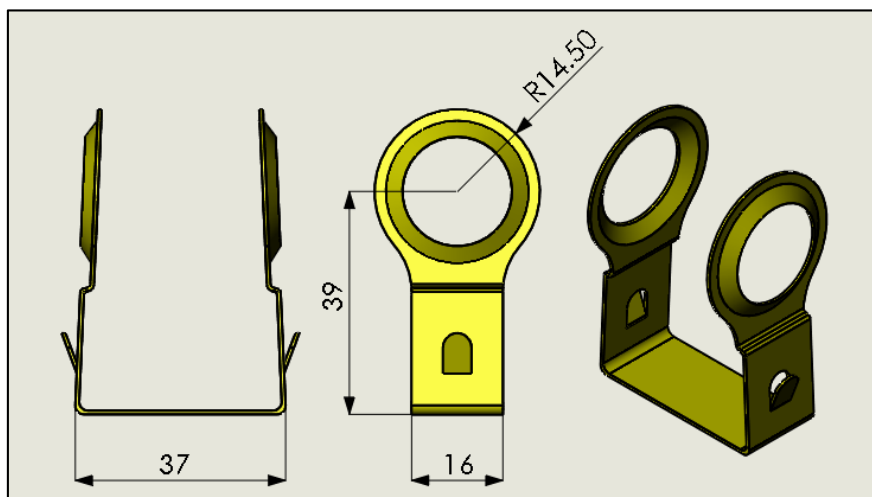
### 61150 – Spring Anchor Bar



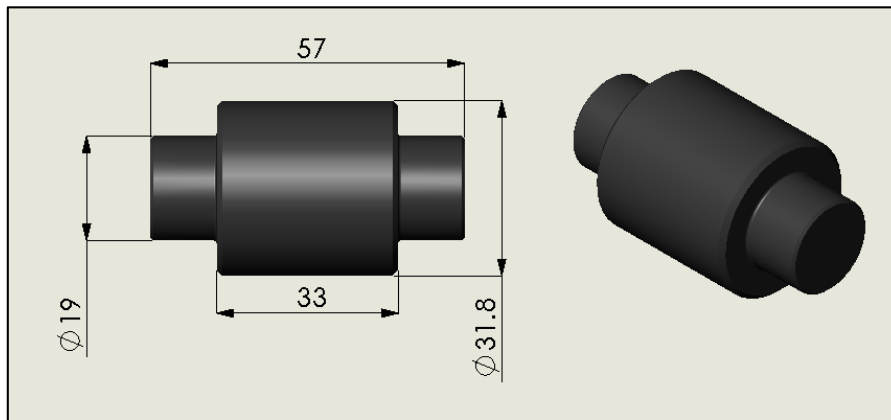
### 20064 – Retainer Cam Roller



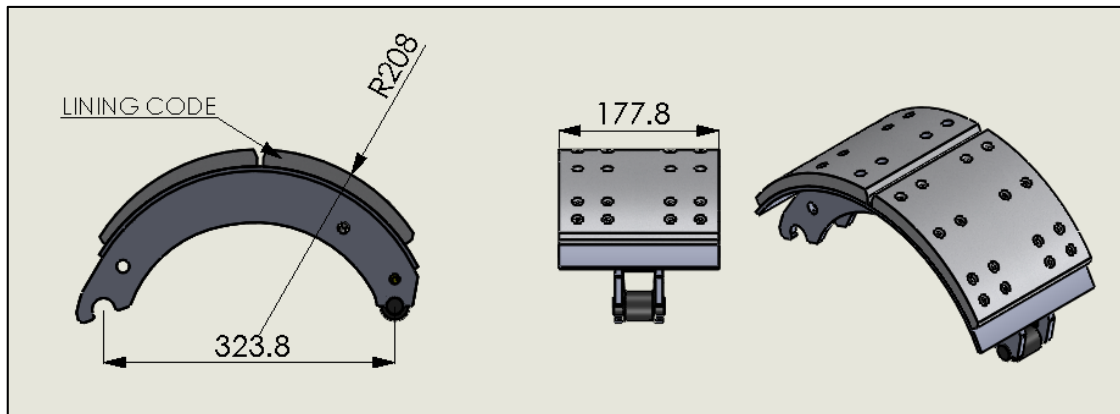
### 61220 – (Alternate to 20064) - Retainer Cam Roller



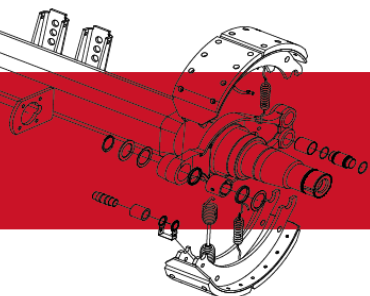
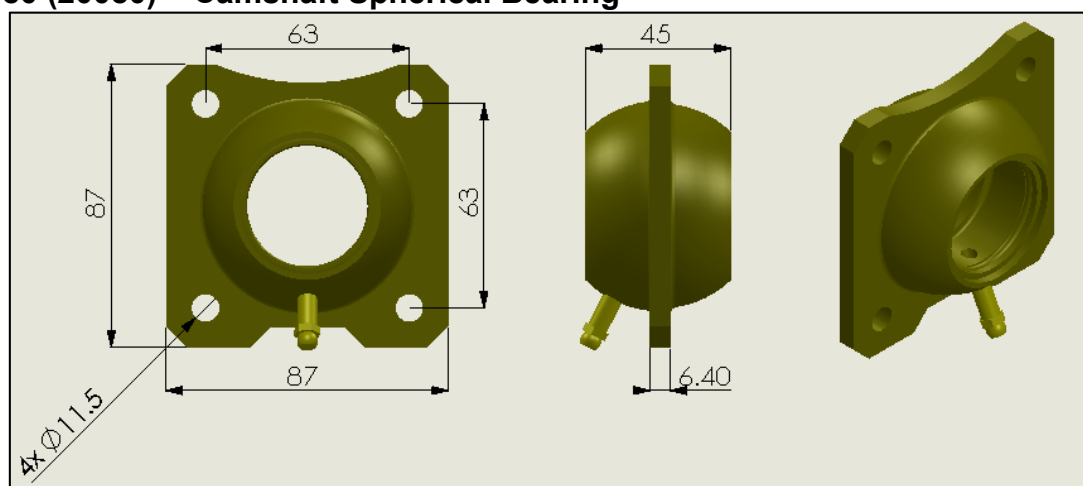
### 61235 – One Piece Cam Roller



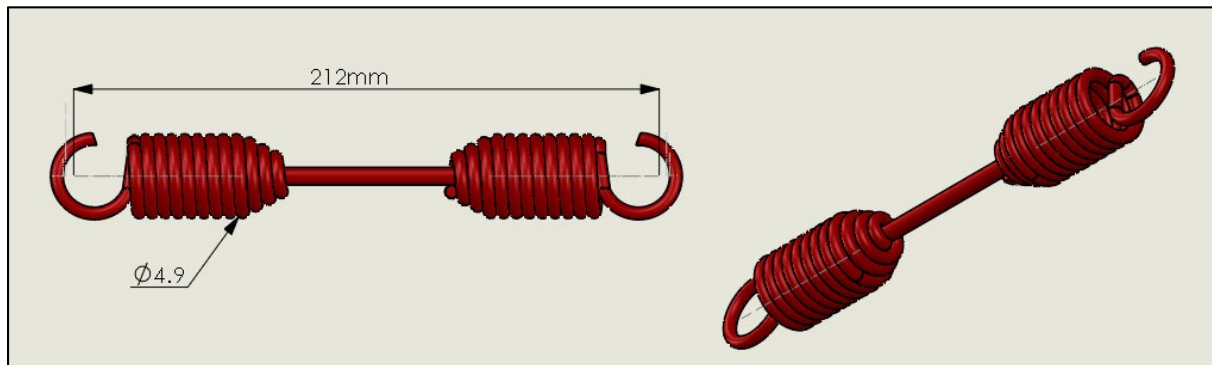
### 61157FA – Brake shoe with spring anchor bar and cam roller



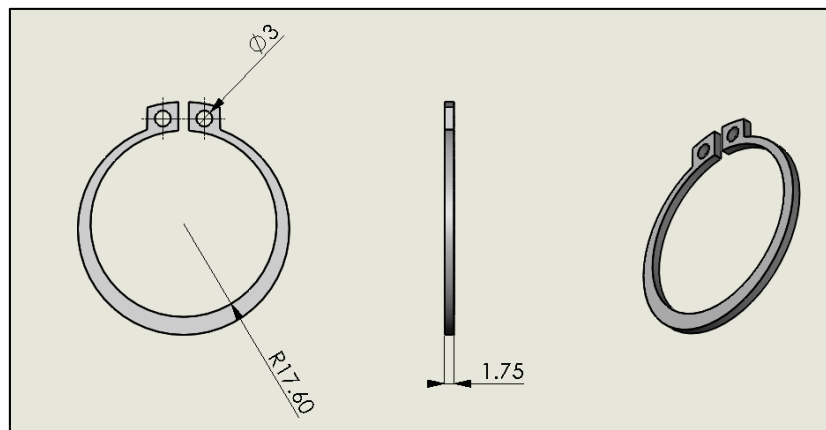
### 61080 (20080) – Camshaft Spherical Bearing



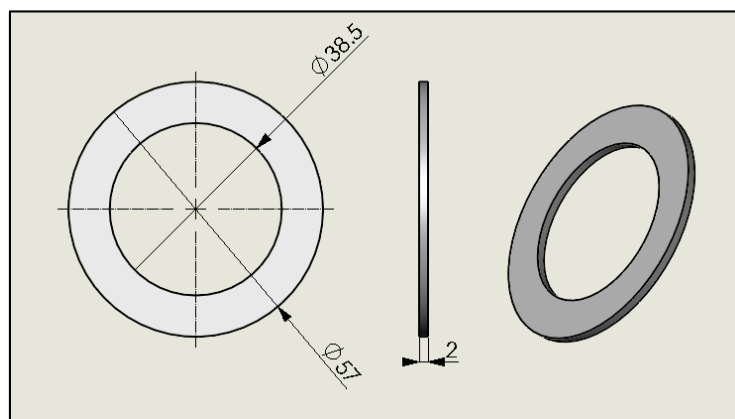
## 61140 – Spring Return



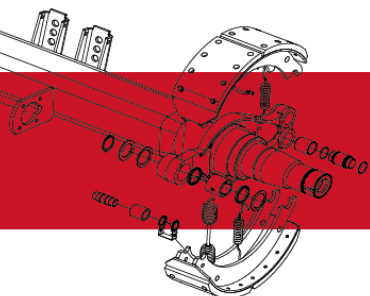
## 61120 - Circlip

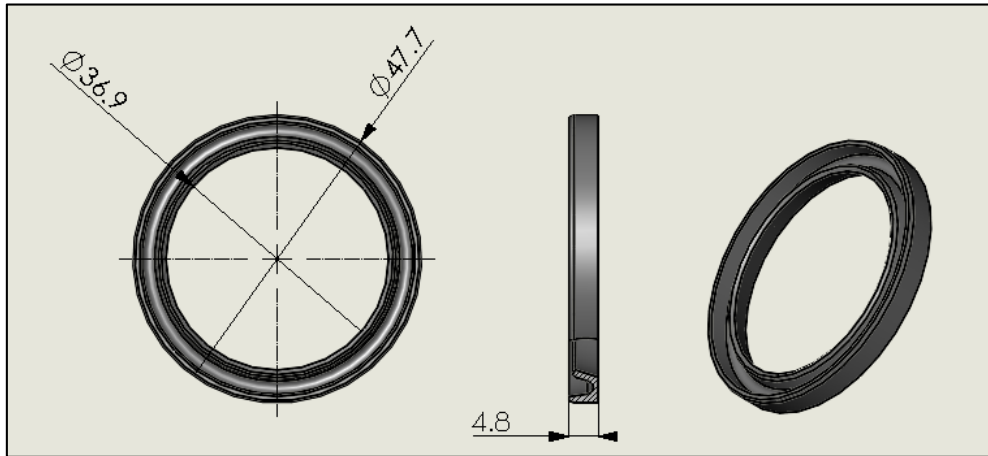


## 61058 - Camshaft Support Washer

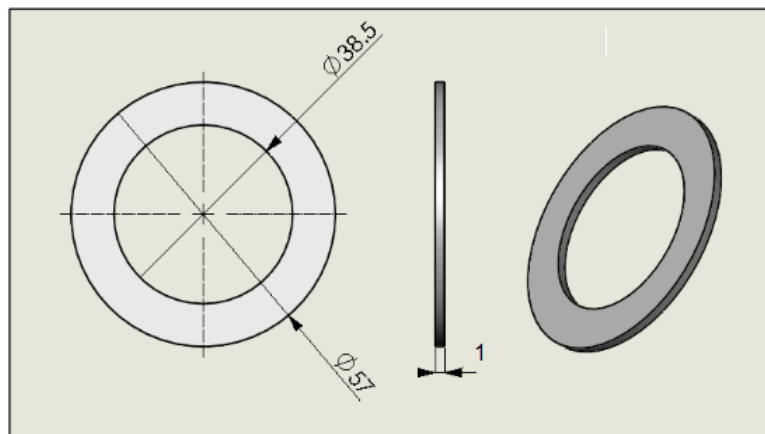


## 61056 - Camshaft Grease Seal

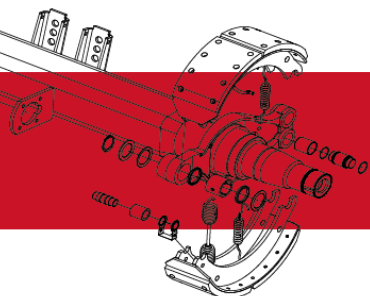
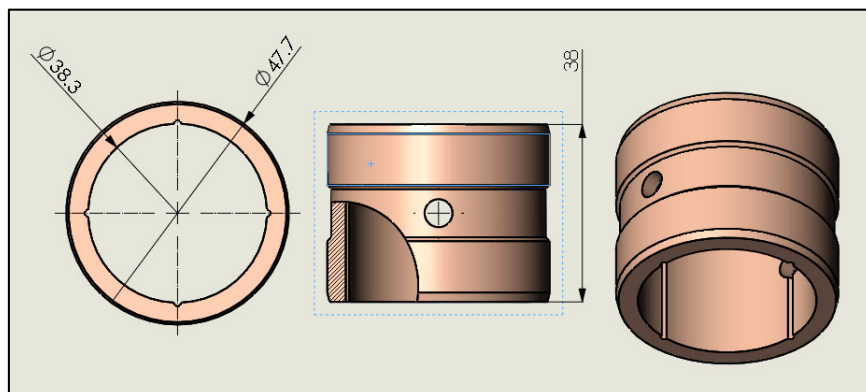




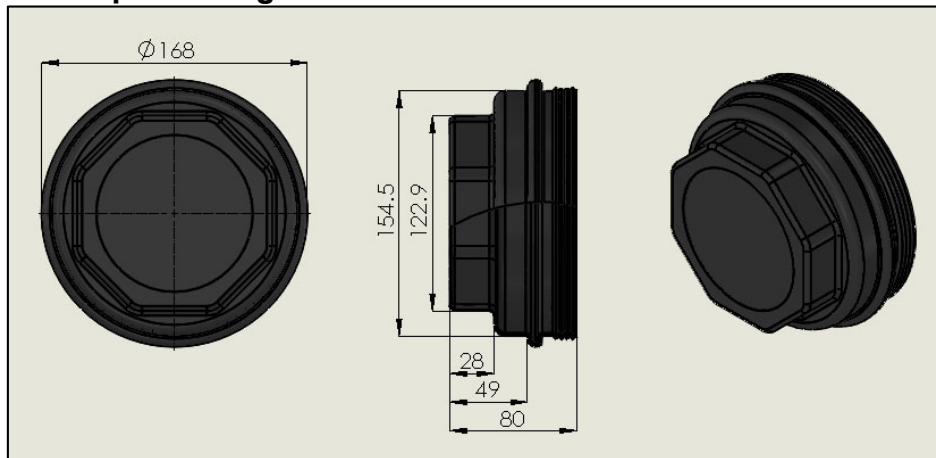
**96365F – Camshaft 1mm Washer**



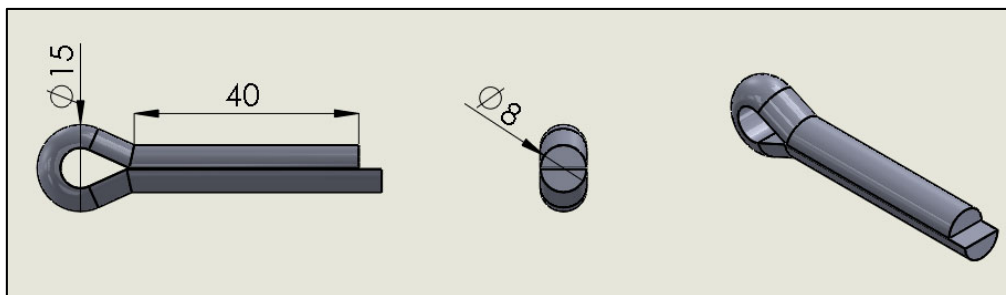
**20110 – Camshaft Sintered Bush**



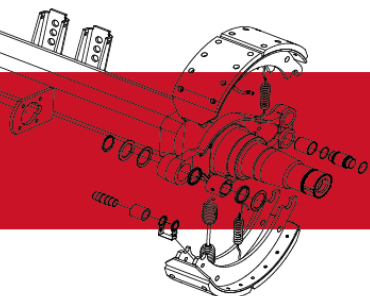
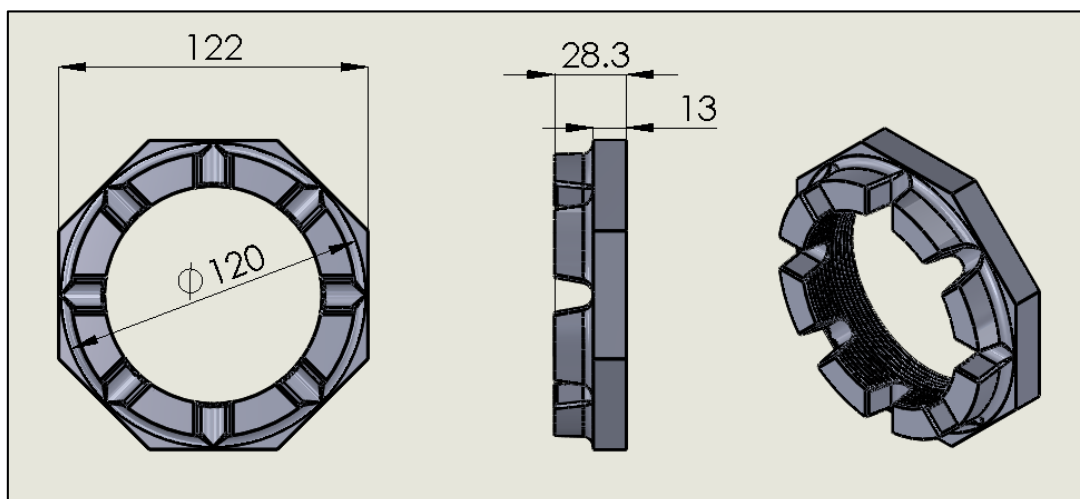
## 20000 – Hub Cap Pressing



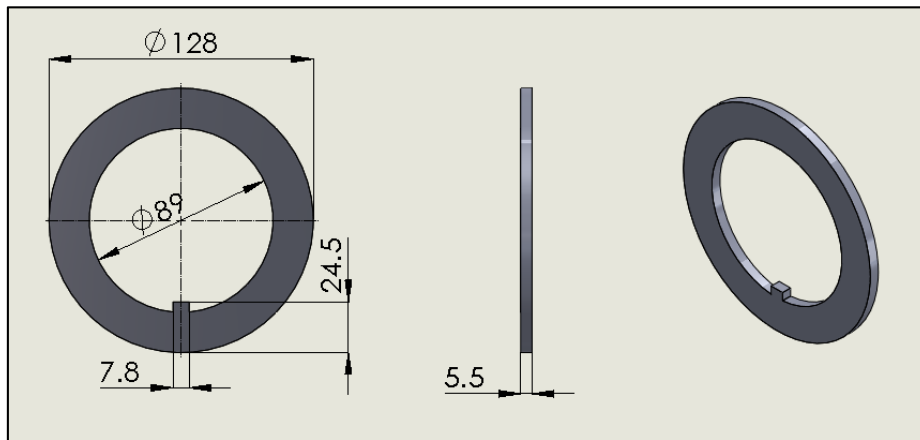
## 20059 – Spindle Split Pin



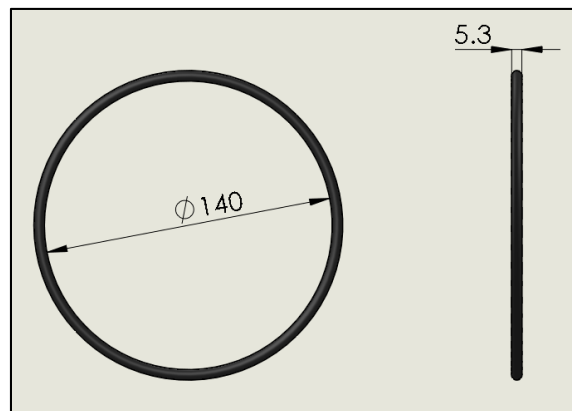
## 20060 – Spindle Castle Nut



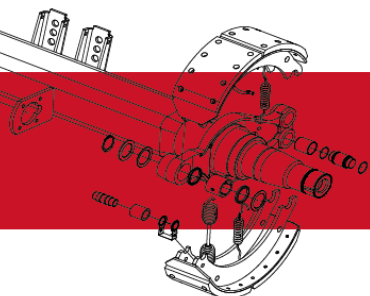
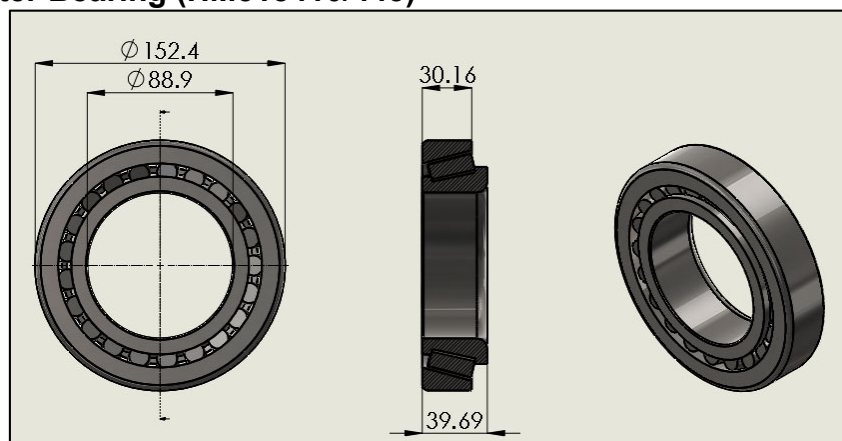
## 20058 – Spindle Washer



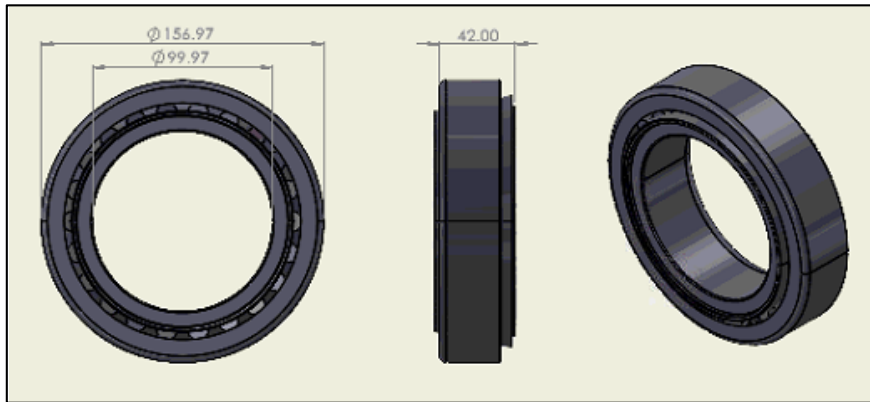
## 20001 – Hub Cap Seal



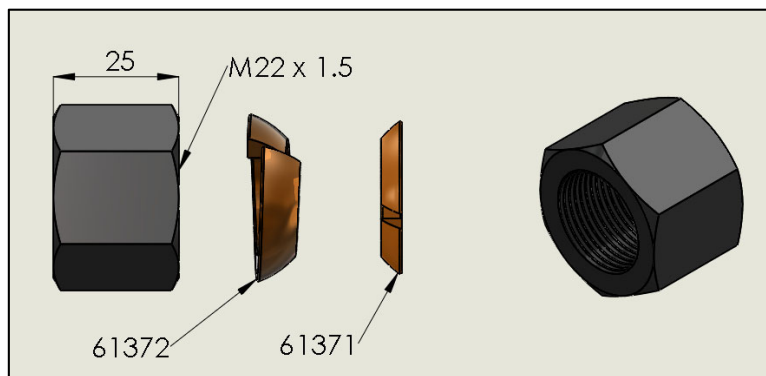
## 20002 – Outer Bearing (HM518410/445)



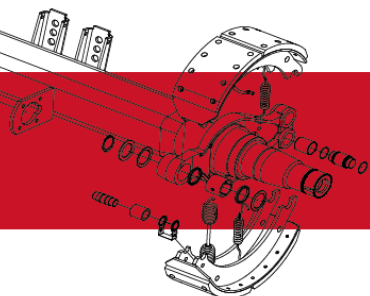
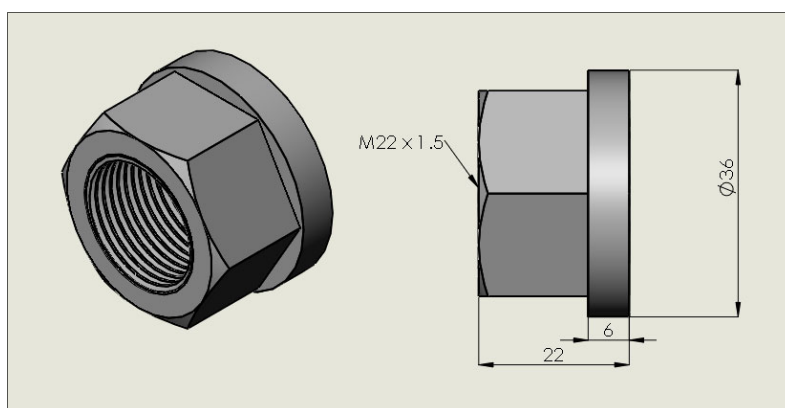
## 20124 – Inner Bearing (HM220149/110)



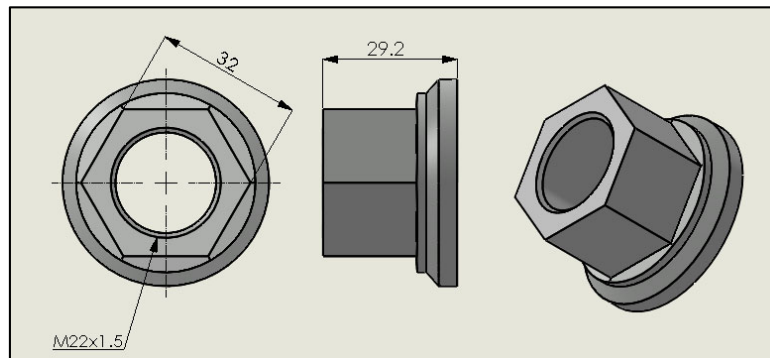
## 61383- M22 DIN Wheel Nut + Washers (61372 & 61371)



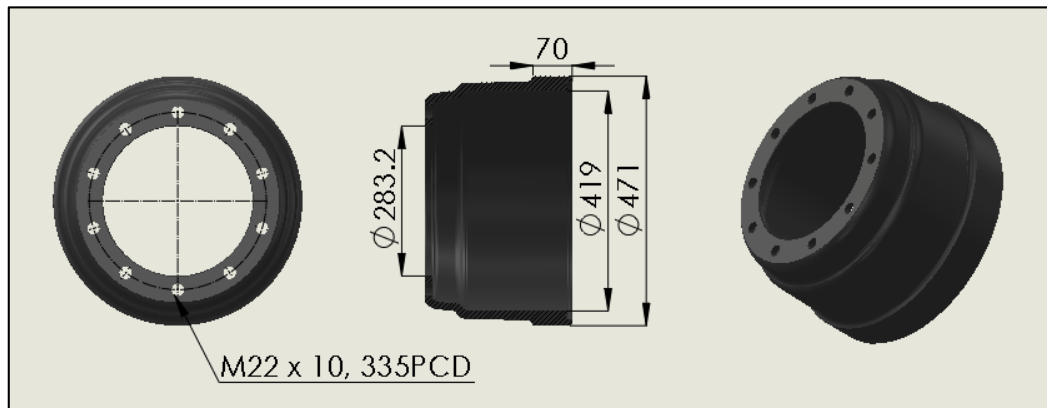
## 61411- M22 DIN Wheel Nut



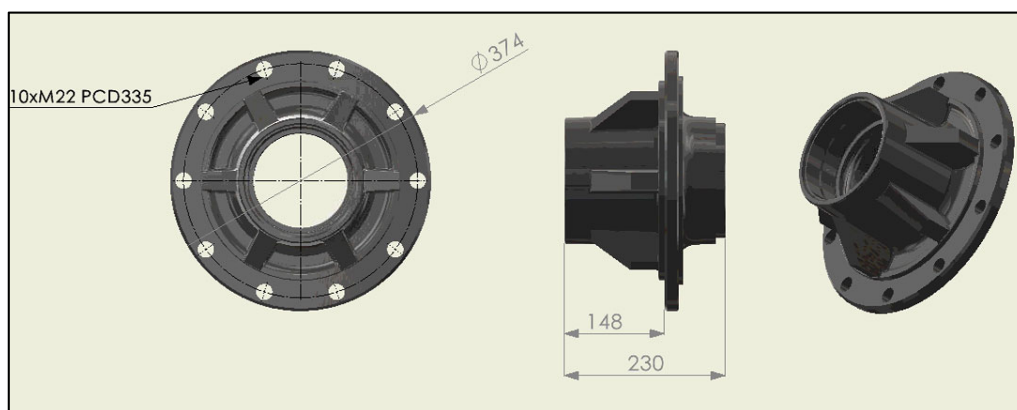
## 61381Z- M22 ISO Wheel Nut



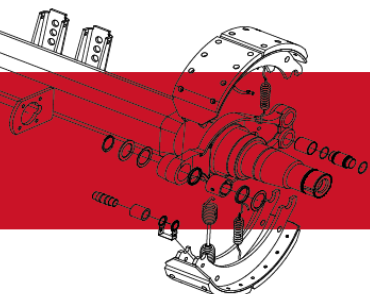
## 20008 –Drum **EXTERNAL DRUM**

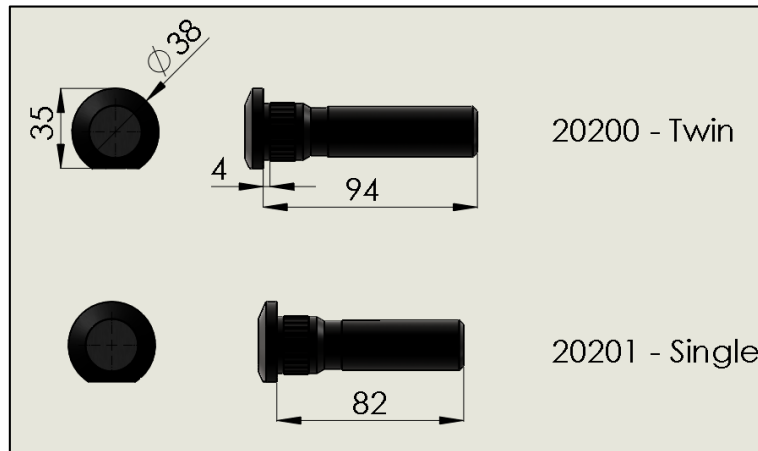


## 20122 –Hub **EXTERNAL DRUM**

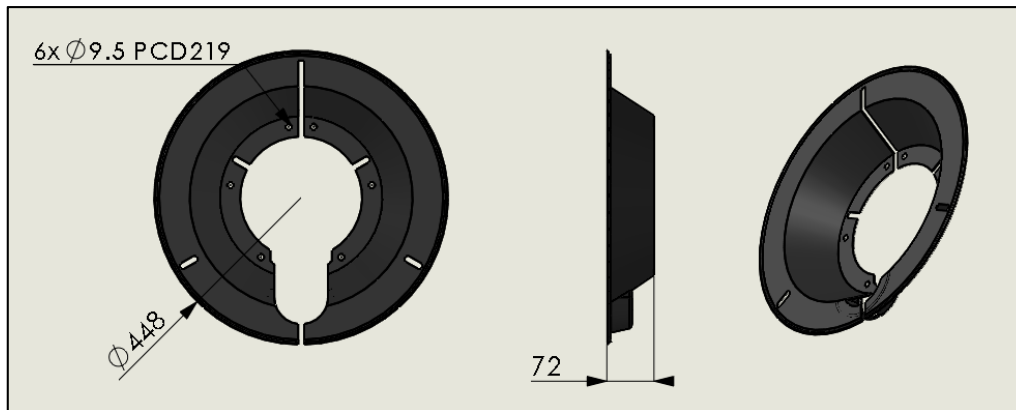


## Wheel Bolt **EXTERNAL DRUM**

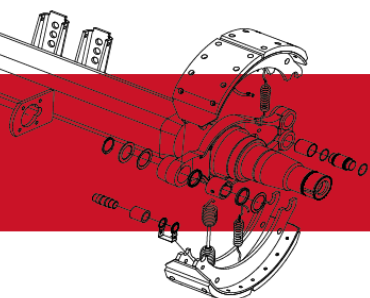
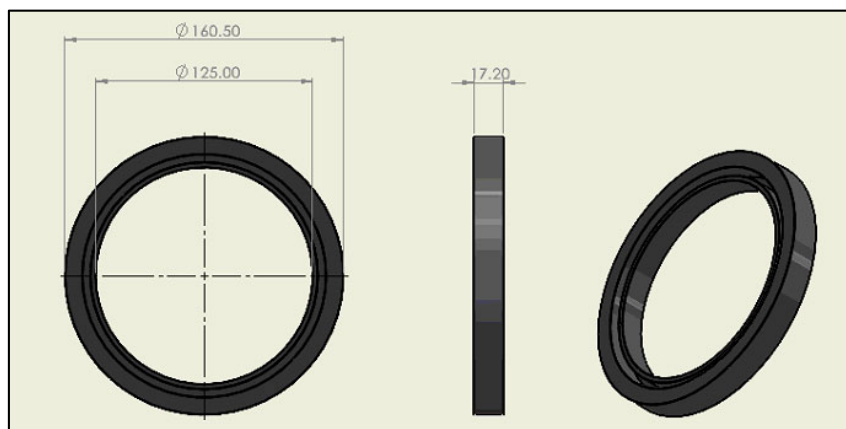


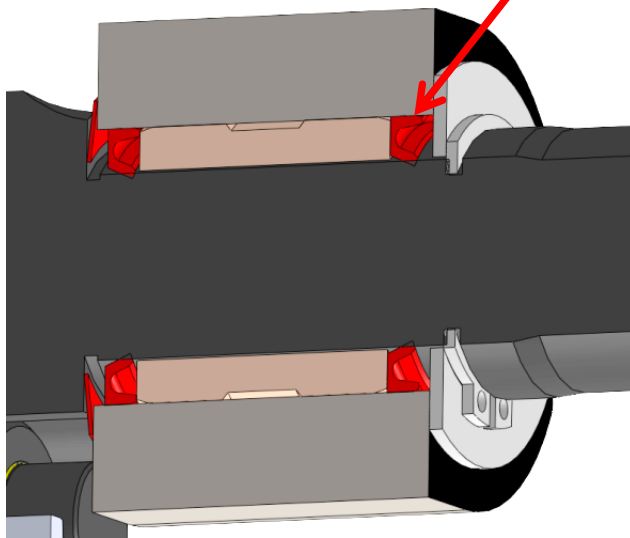
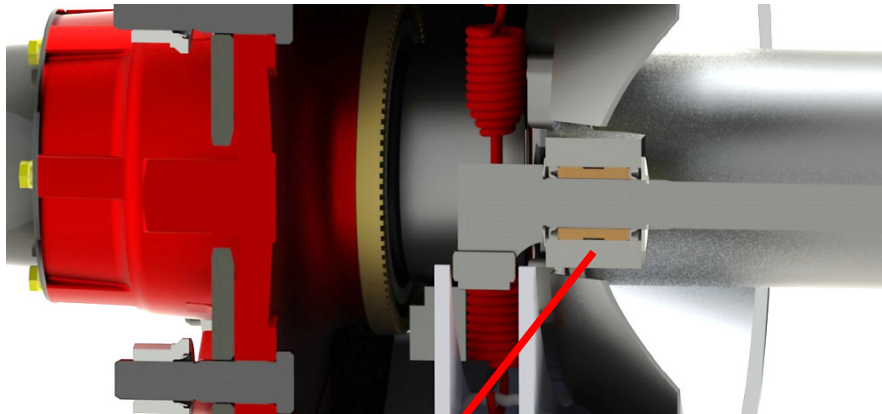


**Dust Cover 61390F EXTERNAL DRUM**



**20123 – Hub Seal**





The direction of the grease seals in the anchor bracket is important as well as the position of the beveled washer between the anchor bracket and camshaft head.

Please use the axle manual for more information or contact Granning on any queries.

We reserve the right to make changes to specifications or to make improvements to the products in this catalogue without prior notice. We are not responsible for inaccuracies or omissions.

