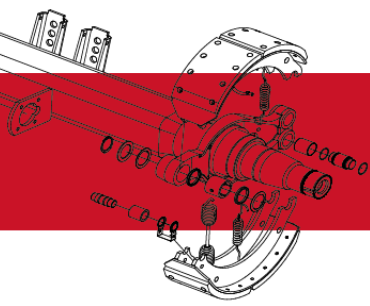


Steer Axle Spare Parts

- **Steer Axle Identification**
- **Track Rod Bush Parts**
- **Shock Absorber Parts**
- **Hydraulic Rams**
- **Air-Locking/Unlocking Cylinders**
- **Torpress Bags**
- **Steer Angle Adjusting Bolts**
- **Kingpin Parts**
- **Standard Air Chamber Brackets**
- **Hydraulic Ram Seals**
- **TIS Series Spare Parts**
- **Axle Brake Components**

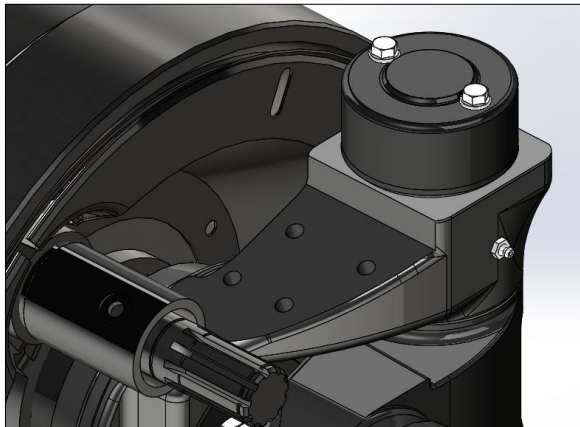


STEER AXLE IDENTIFICATION

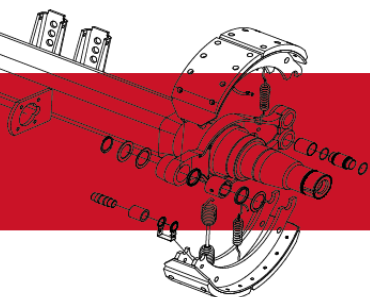
To identify a **100** steer axle:

127mm round beam, 420x180 brake, 10 stud, 281 stud PCD

- The kingpin has no locating bolts.
- The top of the kingpin has a round cap, the bottom has a flat plate.
- There is no ACB plate. The knuckle has threaded holes.

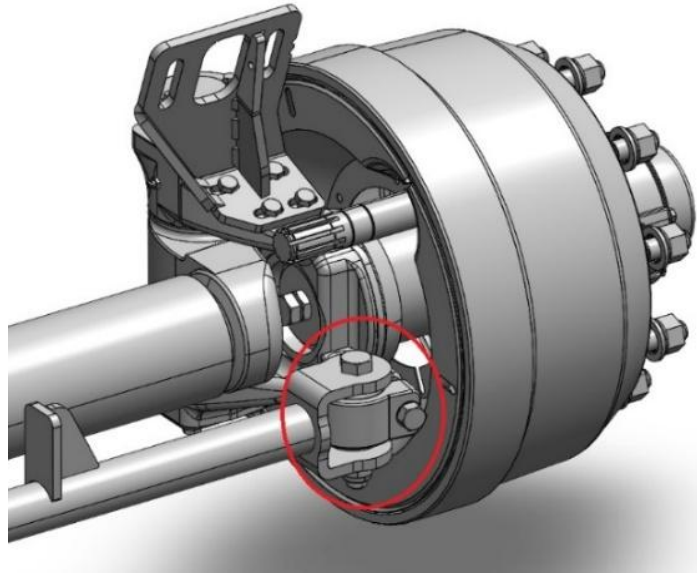


100 Series – ACB holes tapped directly into steer axle knuckle.



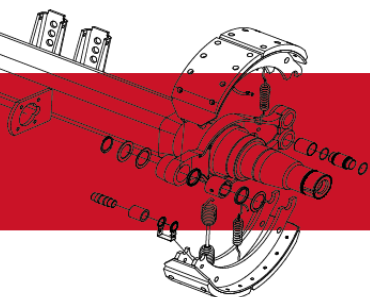
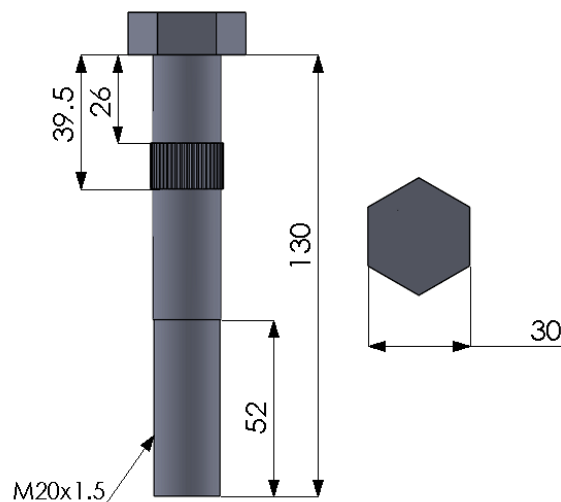
100 Steer Axle Parts

Track Rod Bush Parts

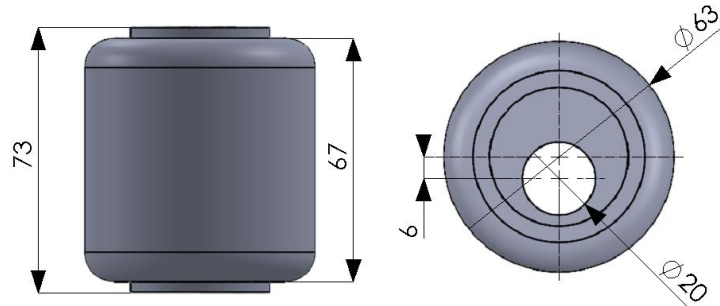


Part No.	Description	QTY per Steer Axle
37039	Track Rod Bush Bolt M20x130x1.5	2
37040	Track Rod Eccentric Bush	2
37041	Track Rod Bush Washer	2
37150	Track Rod Bush Nut M20x1.5	2
63152	Track Rod Bush Pinch Bolt M16x60x1.5	2
63153	Track Rod Bush Pinch Bolt SpringWasher	2

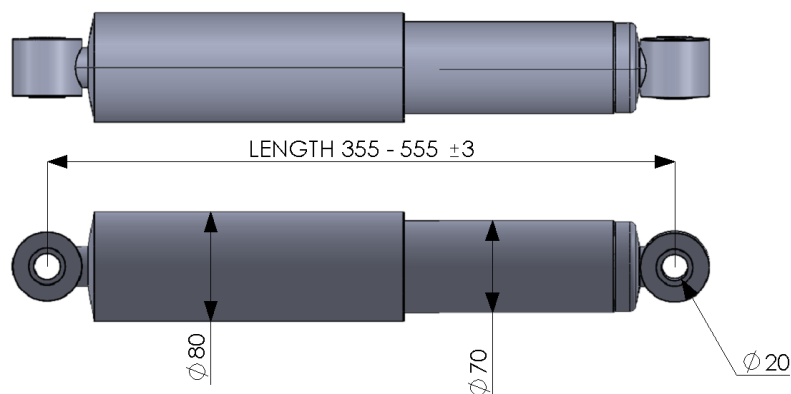
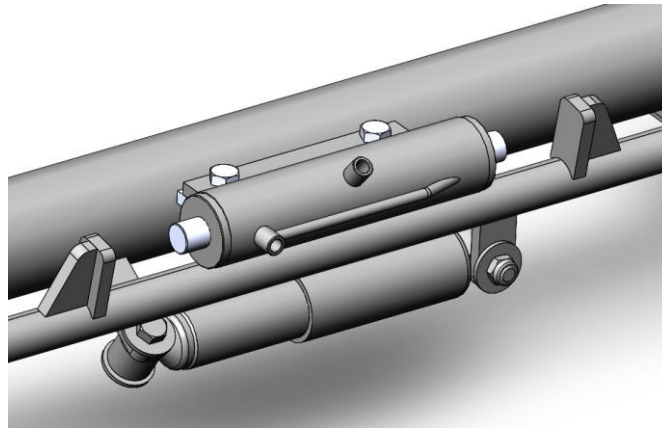
37039 – Track Rod Bush Bolt



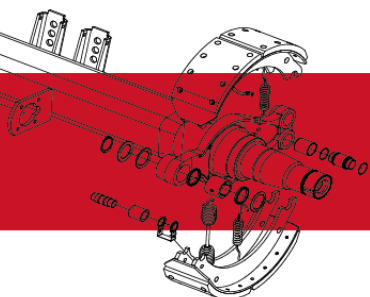
37040 – Eccentric Track Rod Bush Bolt



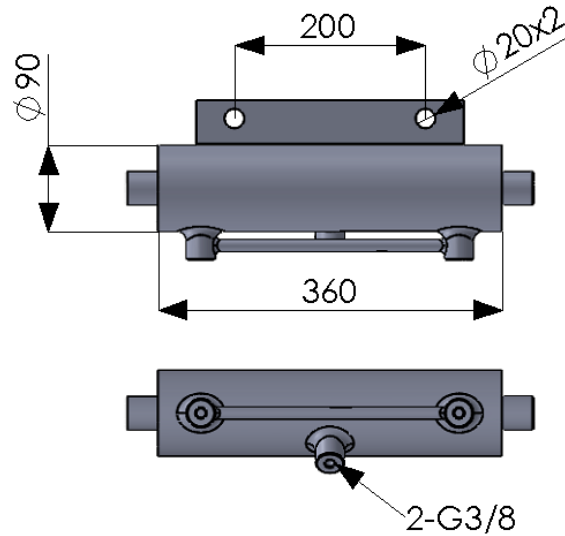
Shock Absorber Parts



Part No.	Description	QTY per Steer Axle
37051	Shock Absorber	1
37100	Shock Absorber Bolt M20x90	2
37101	Shock Absorber Washer (21x37x3)	2
37102	Shock Absorber Locknut M20	2
SK500	Shock Absorber Kit (includes all of the above)	1



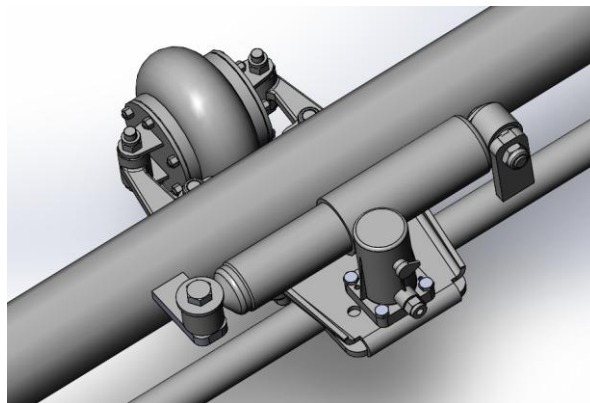
Hydraulic Ram Parts



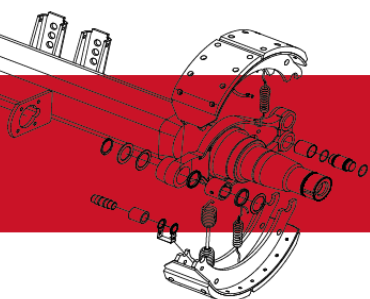
Part No.	Description	QTY per Steer Axle
37179	Hydraulic Ram (Self Steer)	1
37105	Hydraulic Ram Mounting Bolt M20x1.5x60	2
37102	Hydraulic Ram Bolt Locknut M20	2
SK300	Hydraulic Ram Kit (Includes all of the above)	1

(37179F is alternative to 37179)

Air Locking Parts



Part No.	Description	QTY per Steer Axle
37090	Air-To-Unlock/Lock Cylinder Bolts M10x25	4
37111	Air-To-Unlock Cylinder	1
SK400	Air-To-Unlock Cylinder Kit (includes all of the above)	1

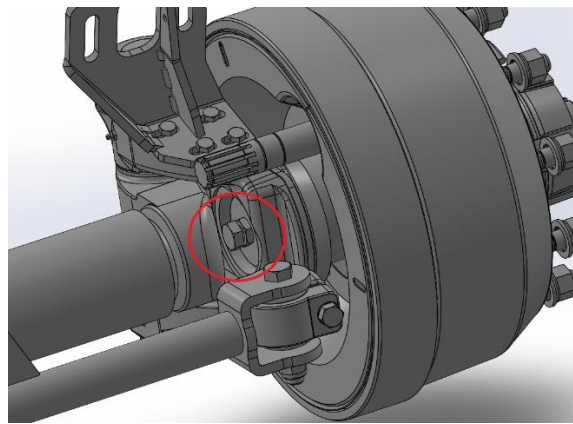


Part No.	Description	QTY per Steer Axle
37110	Torpress Bag	1
37007	Torpress Bag Kit	1
37111	Air-To-Unlock Cylinder	1
40059	Air-To-Lock Cylinder	1
37090	Air-To-Unlock/Lock Cylinder Bolts M10x25	4

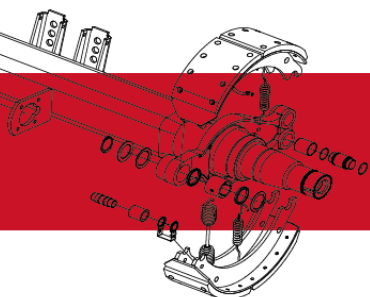
(40058 is alternative to 37111)

(37109 is alternative to 37007)

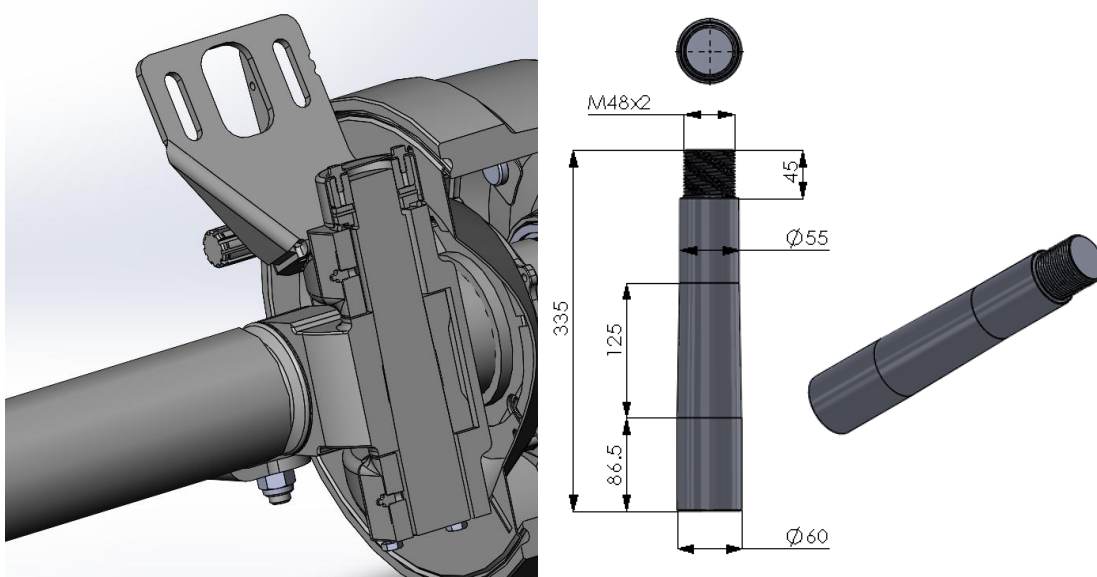
Steer Angle Adjusting Bolts



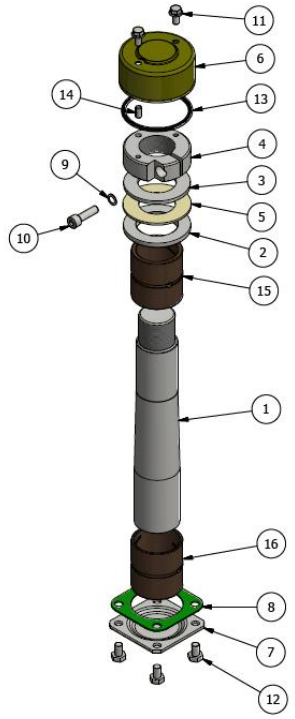
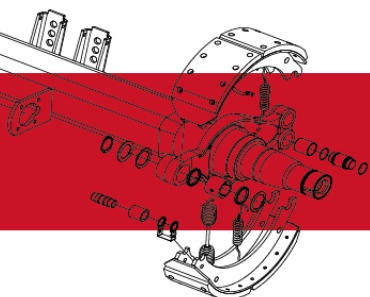
Part No.	Description	QTY per Steer Axle
37027	Steer Angle Limiting Bolt M20x40	2
37028	Steer Angle Limiting Nut M20	2



Kingpin Parts

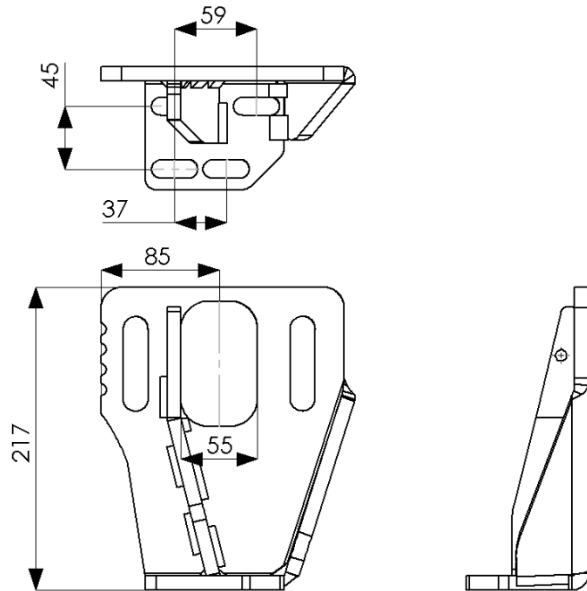


Item No.	Part No.	Description	QTY per Steer Axle
1	37132	Kingpin	2
2	37134	Lower Washer	2
3	37136	Upper Washer	2
4	37139	Kingpin Clamp Ring	2
5	37135	Plastic Washer	2
6	37034	Kingpin Cap	2
7	37130	Kingpin Bottom Cap	2
8	37131	Kingpin Bottom Cap Gasket	2
9	72021	Kingpin Pinch Bolt Washer	2
10	37138	Kingpin Pinch Bolt M10x35	2
11	37140	Kingpin Cap Bolt M8x16	4
12	37129	Kingpin Bottom Cap Bolt M10x16	8
13	37133	Kingpin O-Ring	2
14	37137	Lock Washer Pin	2
15	37166	Kingpin Bush Small – Nylon	2
16	37167	Kingpin Bush Large – Nylon	2
	SK150	Kingpin Kit (Includes all of the above)	1

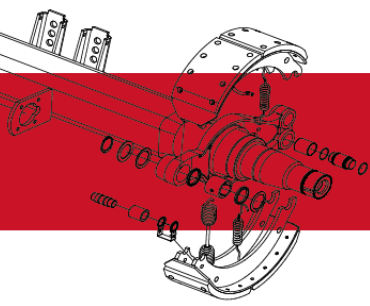
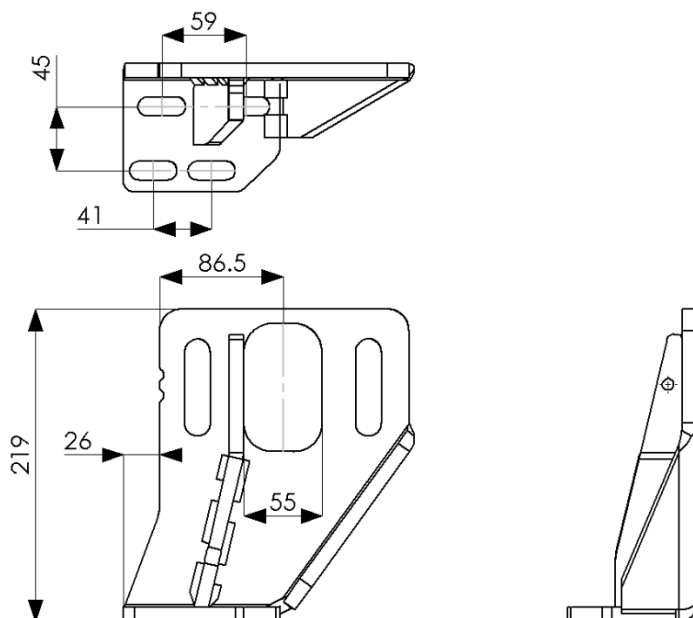



Air Chamber Bracket

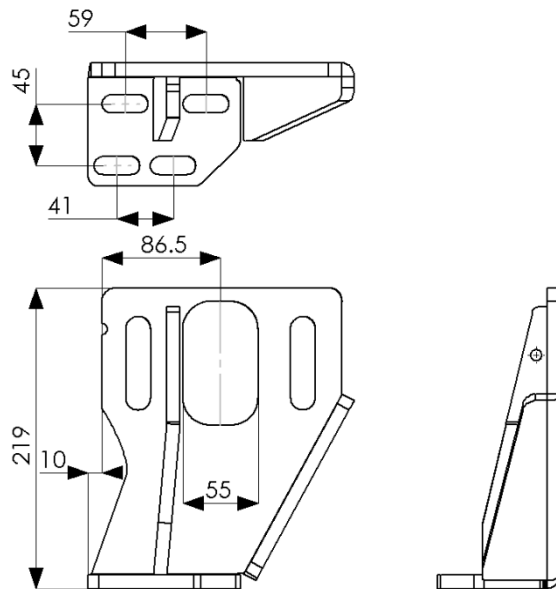
37127 Left 4 notch 420x180 ACB shown below (37128 right)



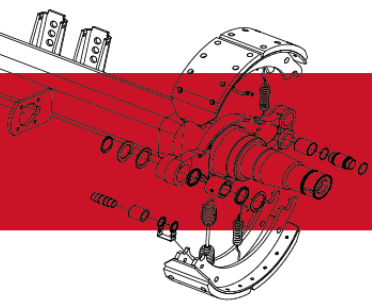
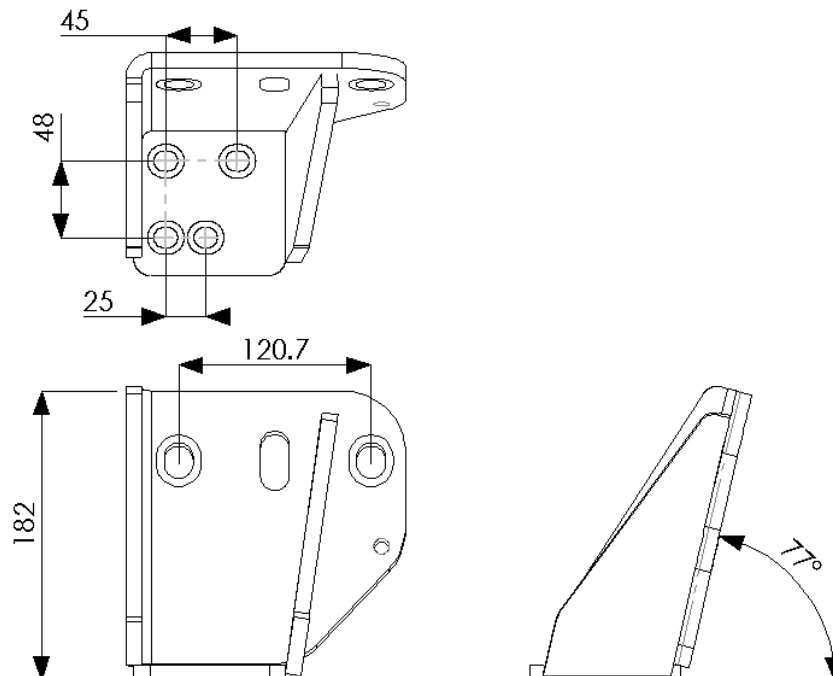
37171 Left 2 notch 420x180 ACB shown below (37172 right)



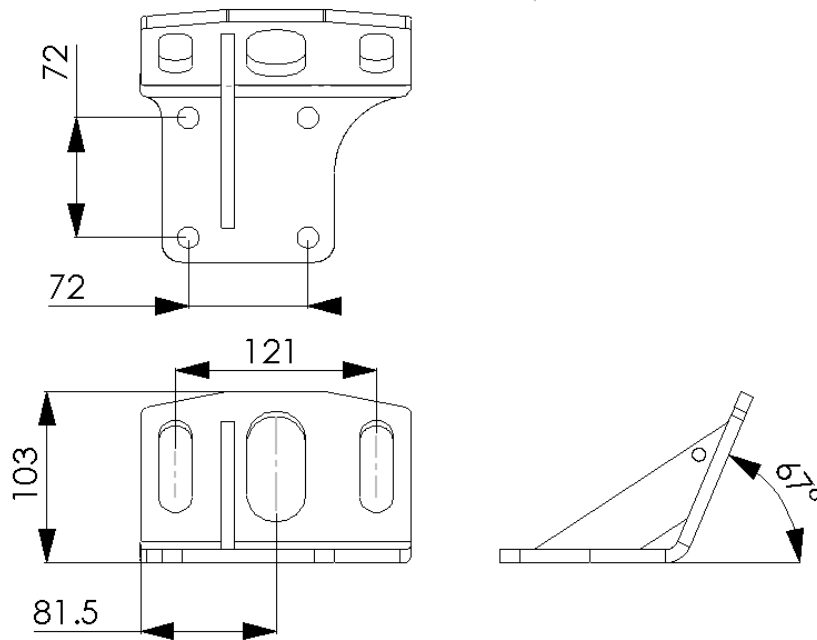
37116 Left 1 notch ACB shown below (37117 right)



37218 Left ACB shown below (37219 right)

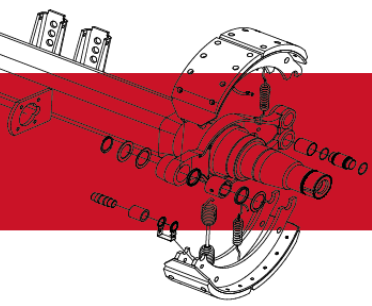


37121 ACB Bottom Pair



ACB bolts

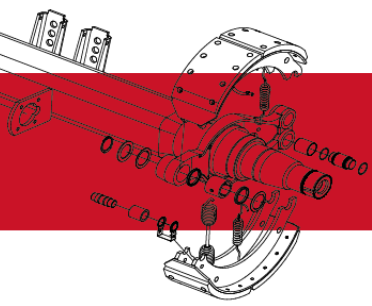
M12x25x1.75 Bolt 63163
12mm spring washers 63162



37158 – Hydraulic ram (37103) replacement seals

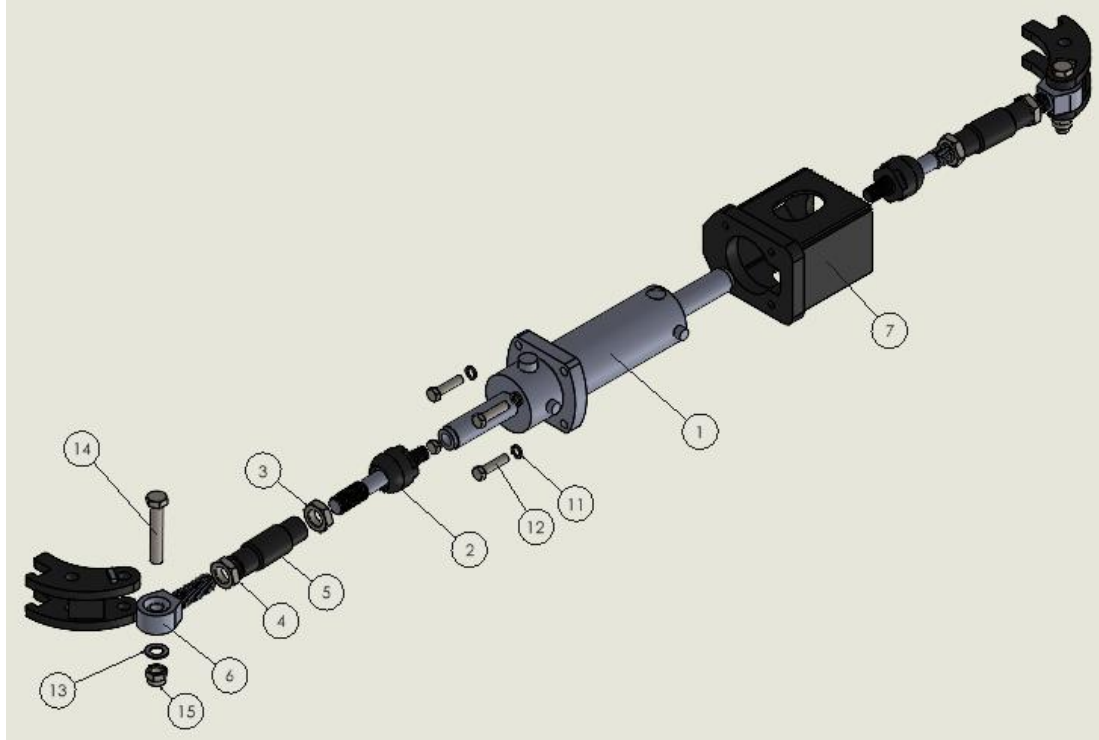


37217 – Hydraulic ram (37179) replacement seals

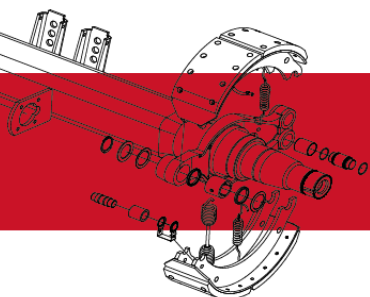


TIS Series Spare parts

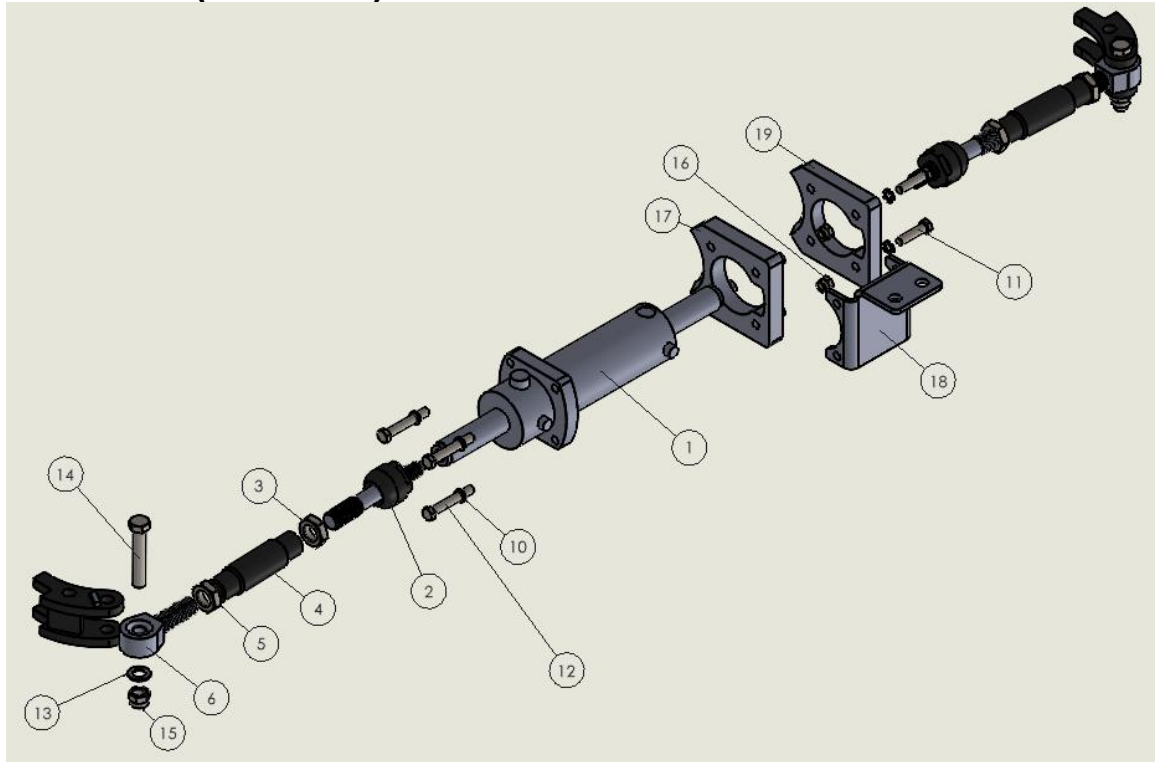
150SQ axle (420x180)



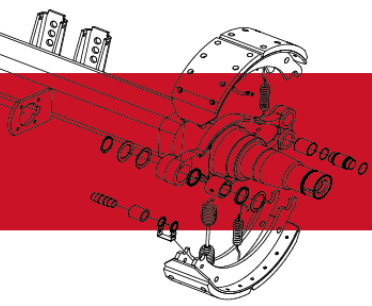
Item No.	Part No.	Description	QTY per Steer Axle
1	37253	HYD. STEER CYLINDER (100mm)	1
2	37254	BALL JOINT	2
3	37275	THIN NUT M30X2 LH	2
4	37276	THIN NUT M30X2	2
5	37282	CONNECTING ROD (110mm)	2
	37255	CONNECTING ROD (145mm)	
	37266	CONNECTING ROD (180mm)	2
6	37256	ROD END BEARING	2
7	37264	CYLINDER BRACKET 150SQ AXLES	1
11	61349	WASHER - M14	4
12	37274	BOLT M14x55	4
13	37277	WASHER - 21x37x3	2
14	37273	BOLT - M20 x110	2
15	37278	LOCK NUT - M20	2



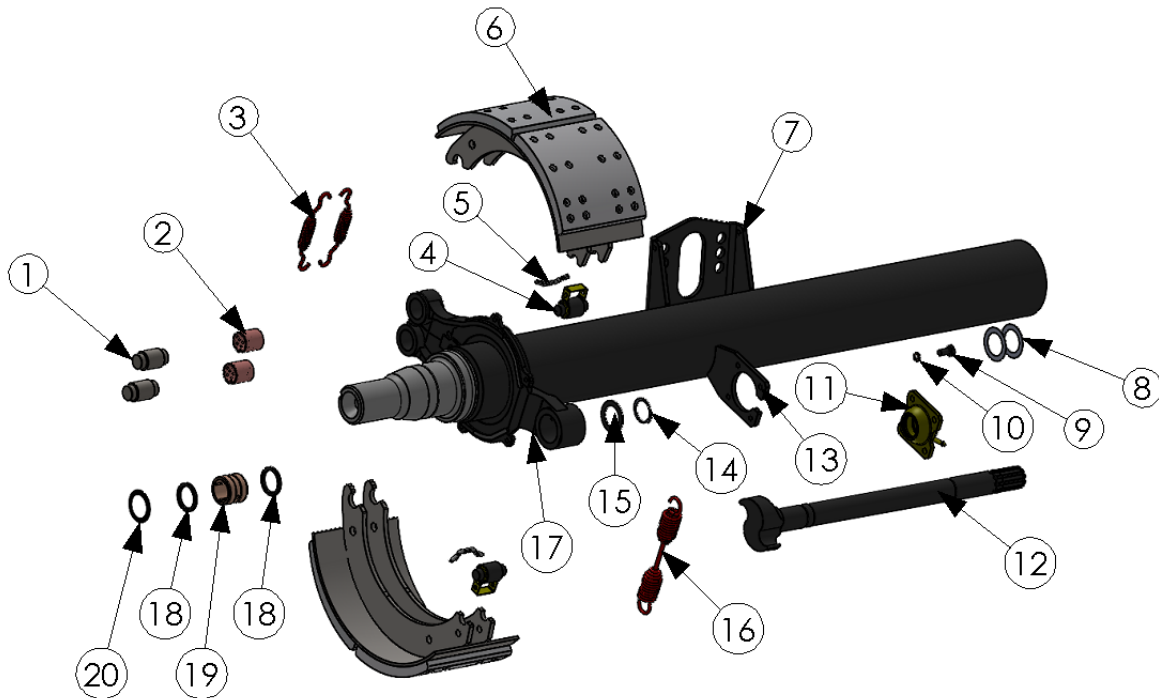
Ø127 axle (420x180)



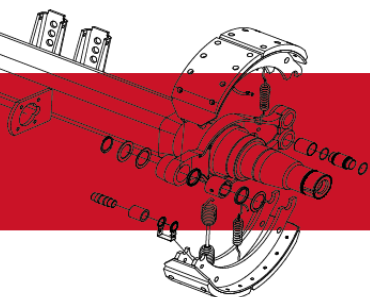
Item No.	Part No.	Description	QTY per Steer Axle
1	37253	HYD. STEER CYLINDER (100mm)	1
2	37254	BALL JOINT	2
3	37275	THIN NUT M30X2 LH	2
4	37282	CONNECTING ROD (110mm)	2
	37255	CONNECTING ROD (145mm)	2
	37266	CONNECTING ROD (180mm)	2
5	37276	THIN NUT M30X2	2
6	37256	ROD END BEARING	2
10	61349	WASHER - M14	6
11	37274	BOLT M14x55	2
12	37289	BOLT M14x90	4
13	37277	WASHER - 21x37x3	2
14	37273	BOLT - M20 x110	2
15	37278	LOCK NUT - M20	2
16	71668	LOCK NUT - M14	6
17	37268	CYLINDER BRACKET (30mm)	1
18	37283	SUPPORT BRACKET	1
19	37267	CYLINDER BRACKET (25mm)	1



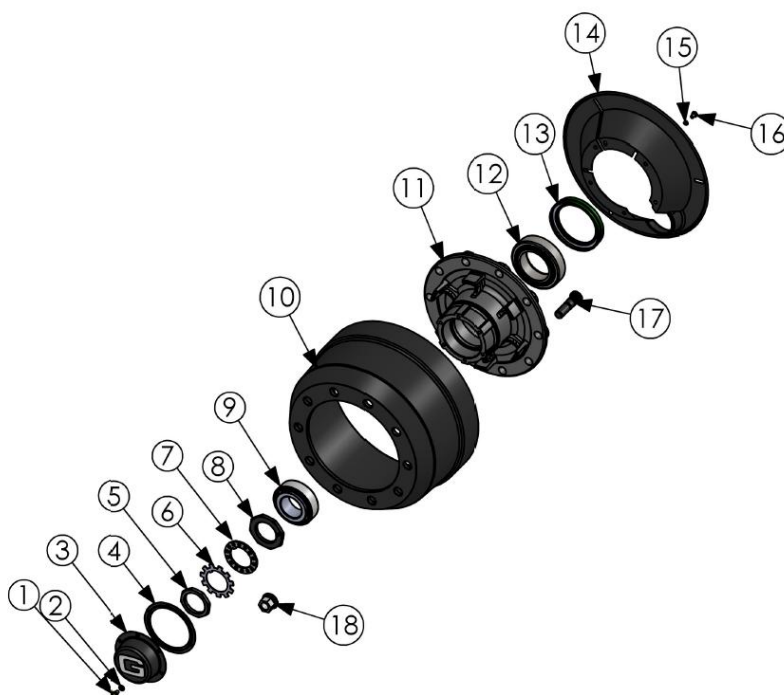
420 x 180 – 100 “F” Series Quick Fit Brake Assembly



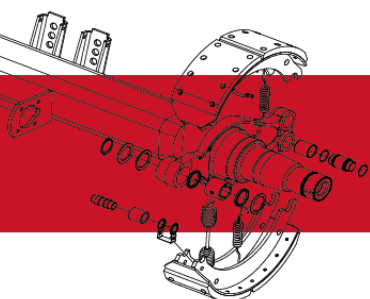
Item	Description	Part No.	QTY per Axle	Kit Name
1	Anchor Pin	61171	4	AK300
2	Bush Anchor Pin	61200B	4	AK300
3	Brake Shoe Retaining Spring	61141	4	AK300
	Brake Shoe Assembly	61157FA	4	
(4)	Retainer Cam Roller	61235	(4)	AK300
	Retainer Cam Roller Retainer	61220	(4)	AK300
(5)	Spring Anchor Bar	61150	(4)	AK300
(6)	Brake Shoe (FWE11)	61157F	(4)	
7	Air Chamber Bracket	61041F	2	
8	Camshaft Support Washer	96365F	4	AK200
9	M10 x 20 Screw	61359	8	AK200
10	Serrated Washer	96363F	8	AK200
	Spring Washer	96364F	8	AK200
11	Spherical Bearing	61080F	2	AK200
	Spherical Bearing Grease Nipple 1/4" 28UNF	61107	2	AK200
12	Axle Camshaft		2	
13	Camshaft Support Bracket	61050F	2	
14	Circlip	61120	2	AK200
15	Support Washer Camshaft	61058	2	AK200
16	Brake Return Spring	61140	2	AK300
17	Anchor Bracket Grease Nipple 1/8NPT 45°	61110	2	
18	Camshaft Grease Seal	61056	4	AK200
19	Camshaft Sintered Bush	61055	2	AK200
20	Beveled Washer	61057	2	AK200



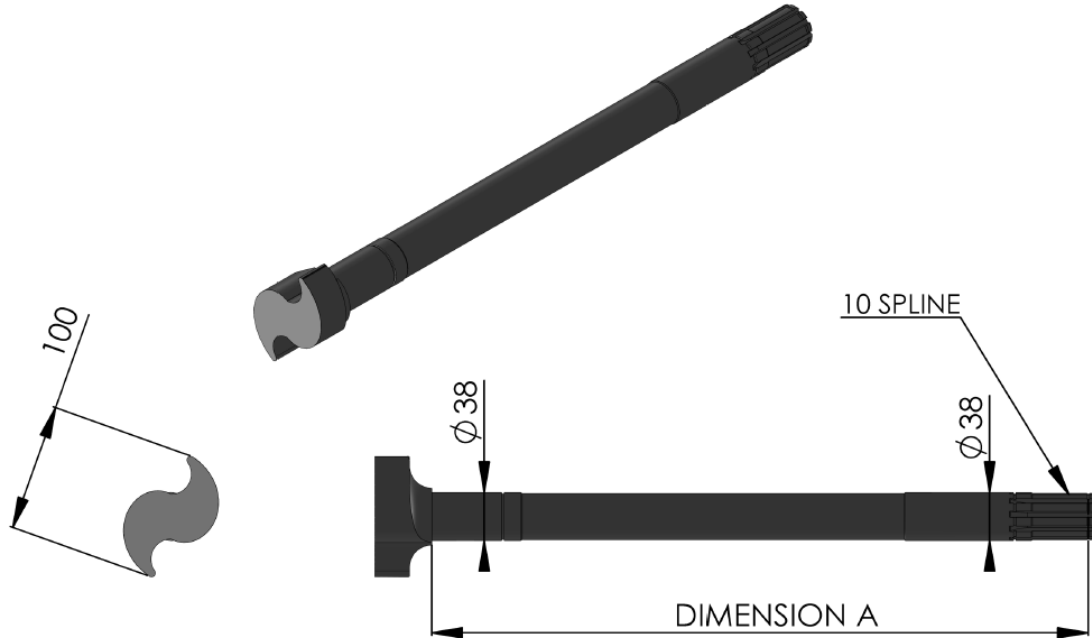
420 x 180 – 100 “F” Series Hub/Drum Assembly



Item	Description	Part No.	QTY per Axle	Kit Name
1	Screw M8 x 16 Fl. Head	61358F	12	AK102
2	M8 Serrated Washer	96366F	12	AK102
3	Hub Cap Pressing "G"	61322	2	AK102
4	Gasket	61330F	2	AK102
5	Locknut	61310	2	AK100
6	Tab Washer	61311	2	AK100
7	Lock Washer	61300	2	AK100
8	Adjusting Nut	61290	2	AK100
9	Outer Bearing	61270F	2	71001/4
10	Brake Drum 10 Stud	61243F	2	71001/4
11	Hub Spigot 10 Stud	61253F	2	71001/4
12	Inner Bearing	61260F	2	71001/4
13	Unitised Grease Seal	61282F	2	71001/4
14	Dust Cover	61390F	2	61390FK
15	M8 Serrated Washer	96366F	12	61390FK
16	M8x16mm Bolt	61358F	12	61390FK
17	Wheel Bolt M22 ISO (Twin)	61386F	20	71004
	Wheel Bolt M22 ISO (Single)	61388F	20	71001
18	ISO Wheel Nut M22	61381Z	20	71001/4
	DIN Wheel Nut M22	61383	20	
	DIN Wheel Nut M22	61411	20	
	DIN Nut Outer Washer	61372	20	
	DIN Nut Inner Washer	61371	20	



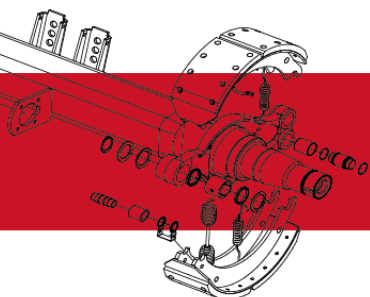
420 x 180 – 100 “F” Series Camshaft Parts List



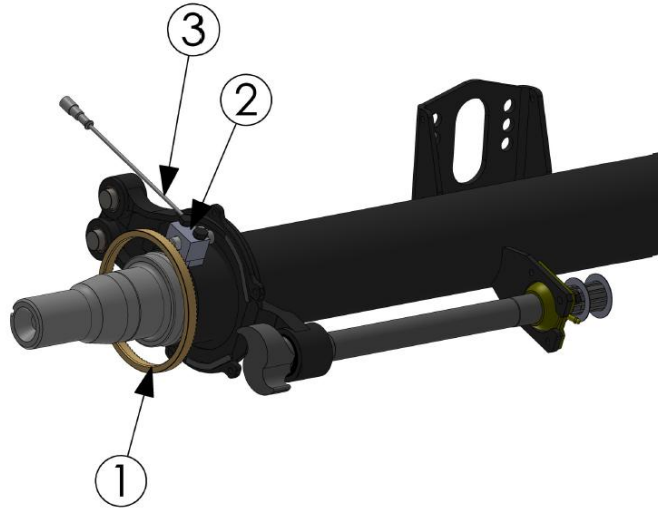
Item	Description (DIM A)	Part No.
1	Left Hand Large Head (189mm)	61127
2	Right Hand Large Head (189mm)	61147
3	Left Hand Large Head (212mm)	61061
4	Right Hand Large Head (212mm)	61071
5	Left Hand Large Head (250mm)	61138
6	Right Hand Large Head (250mm)	61148
7	Left Hand Large Head (519mm)	61065
8	Right Hand Large Head (519mm)	61075
9	Left Hand Large Head (618mm)	61067
10	Right Hand Large Head (618mm)	61077
11	Left Hand Large Head (680mm)	61151
12	Right Hand Large Head (680mm)	61152

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

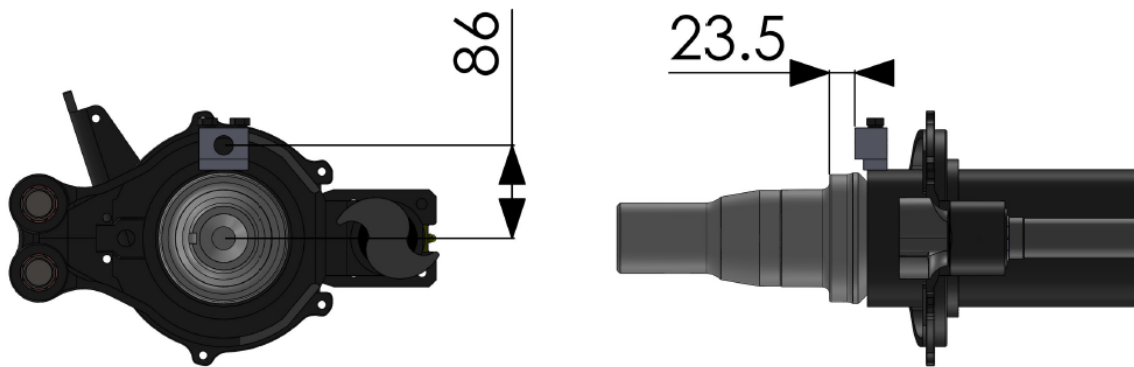
The illustrated camshaft is a right-hand camshaft. When looking at the head of the camshaft a right-hand cam is Z shaped and a left hand is S shaped



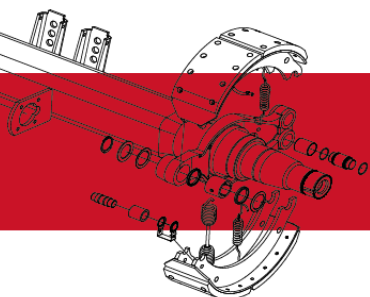
420 x 180 – 100 “F” Series ABS/Anti-Lock Assembly



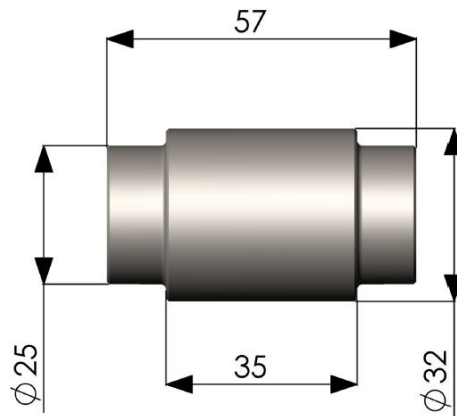
Item	Description	Part No.
1	Pole Wheel (100 tooth)	61789
2	Sensor Block	61376F
3	90 Degree ABS Lead	61786
4	Dust Cover Grommet	61557



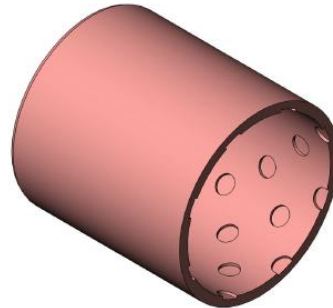
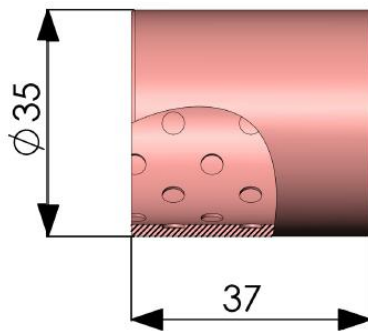
Face of sensor block 23.5mm from large bearing shoulder
Bolt on ABS block (as shown above) is positioned 90 degrees to camshaft. Weld on style is 180 degrees to camshaft and is in line with hole in anchor bracket.



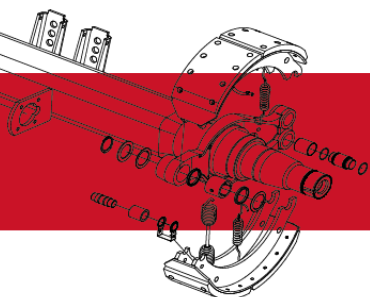
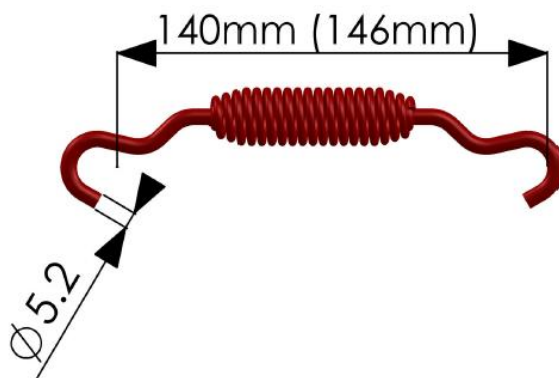
61171 – Anchor pin



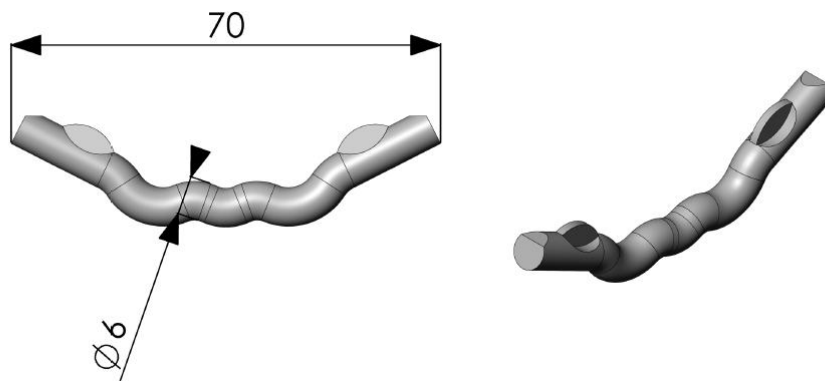
61200B – Bush Anchor Pin



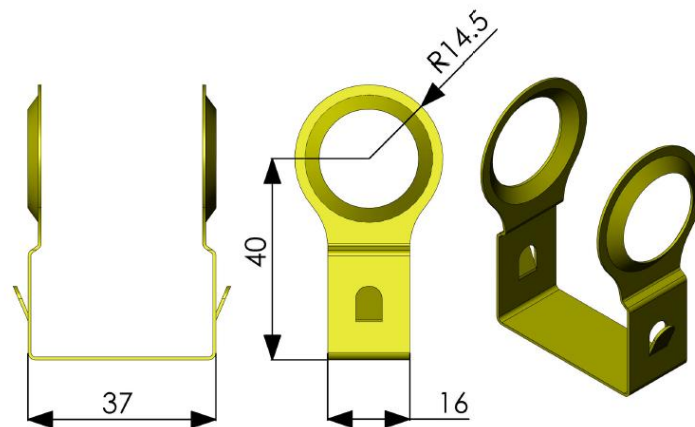
61141 – Brake Shoe Retaining Spring



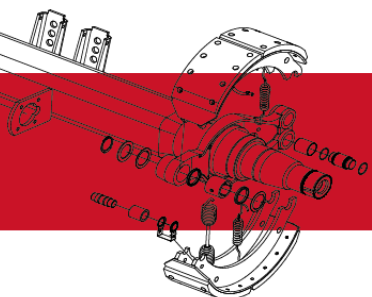
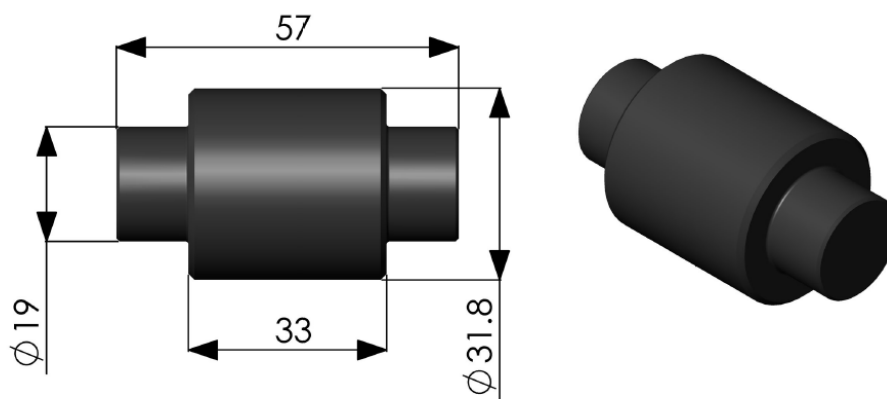
61150 – Spring Anchor Bar



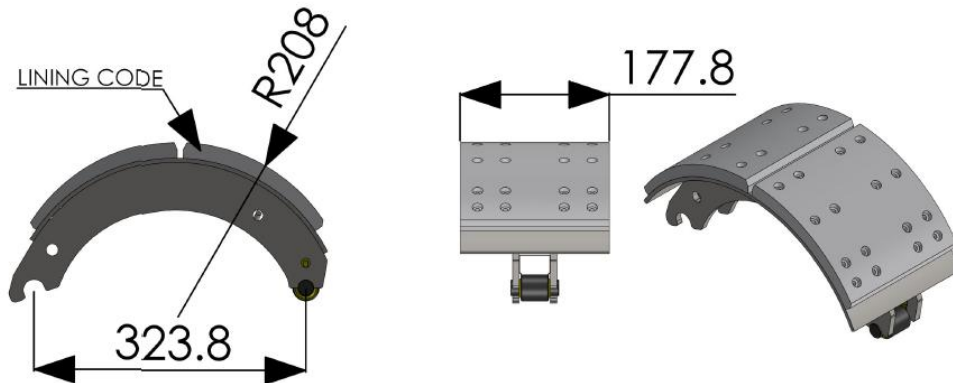
61220 – Retainer Cam Roller



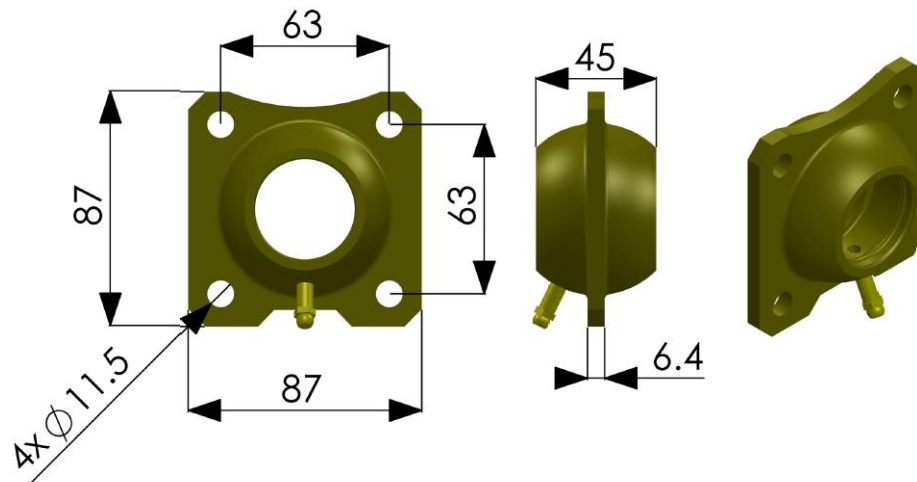
61235 – One Piece Cam Roller



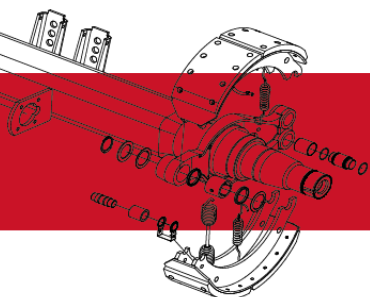
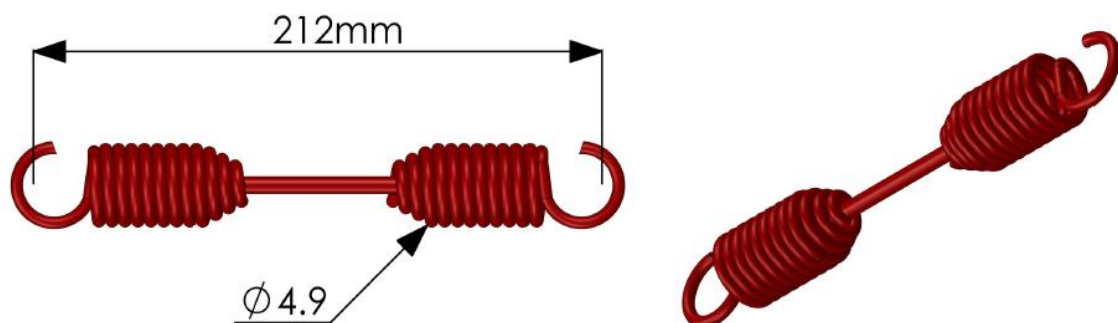
61157FA – Brake shoe with spring anchor bar and cam roller (FWE11)



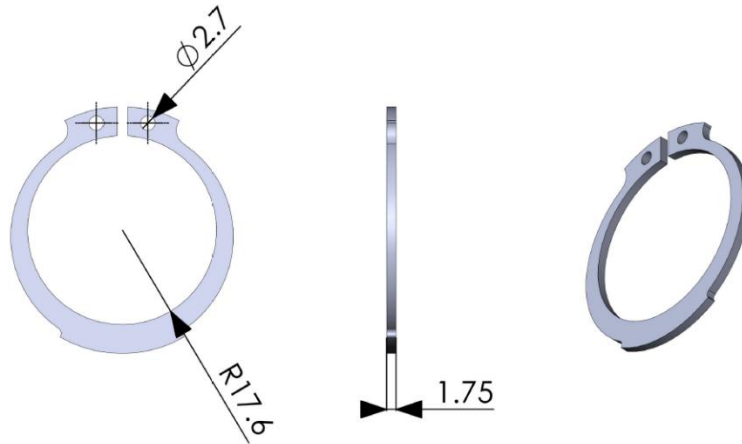
61080F – Camshaft Spherical Bearing



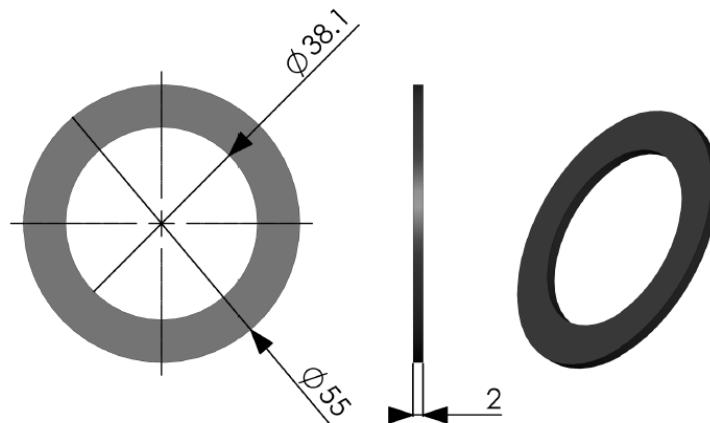
61140 – Spring Return



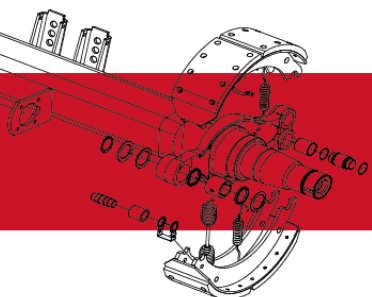
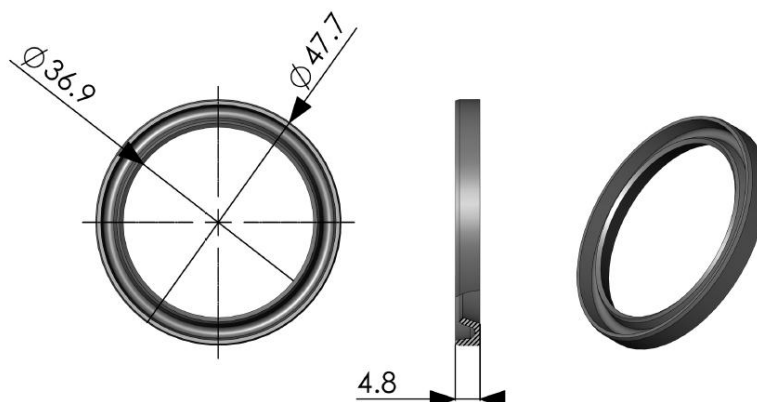
61120 – Circlip



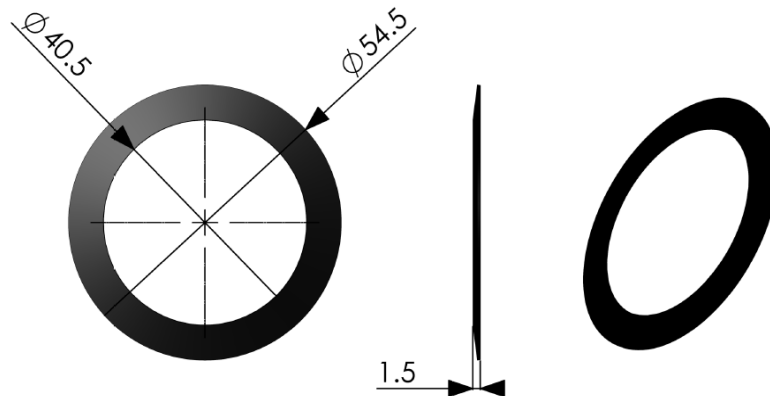
61058 – Camshaft Support Washer



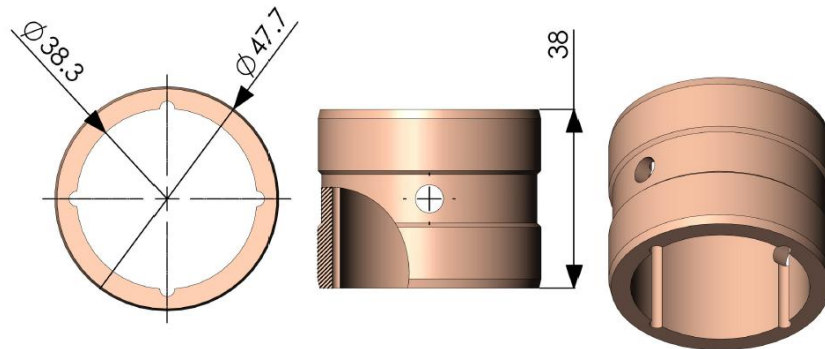
61056 – Camshaft Grease Seal



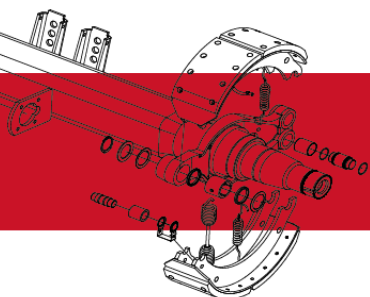
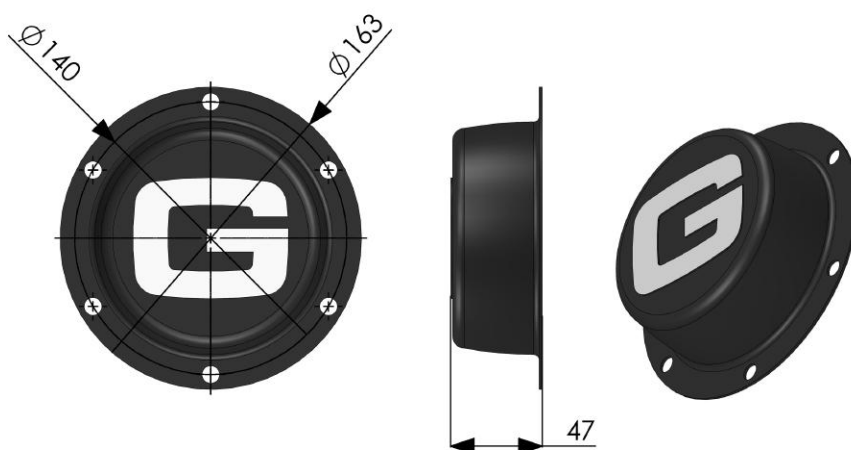
61057 – Camshaft Beveled Washer



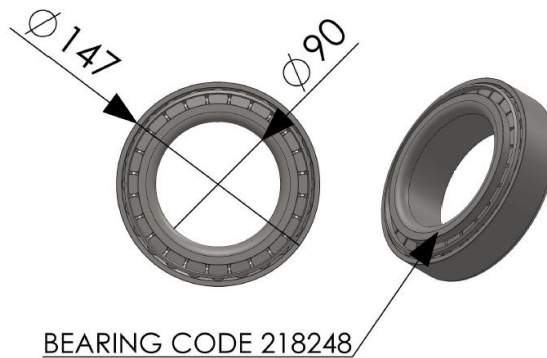
61055 – Camshaft Sintered Bush



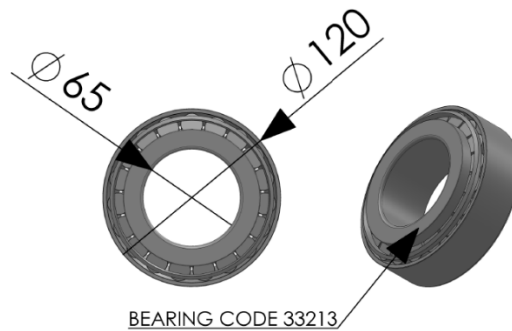
61322 – G Hub Cap Pressing



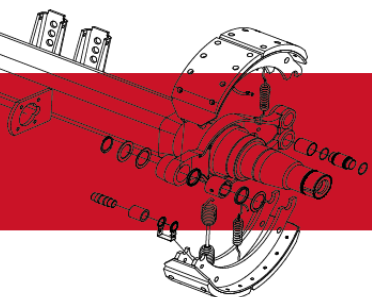
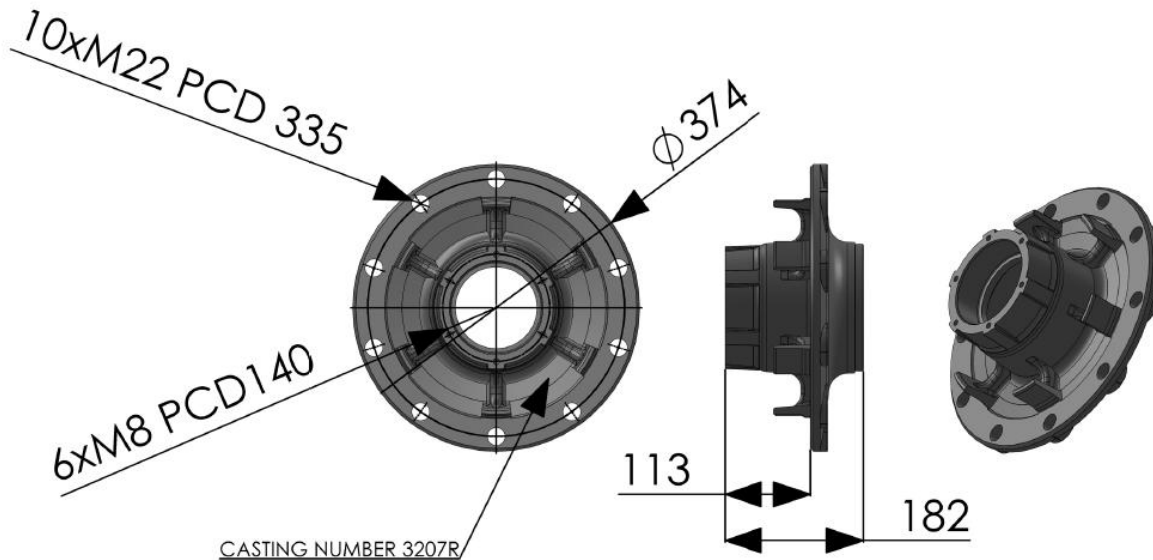
61260F – Inner bearing and cone



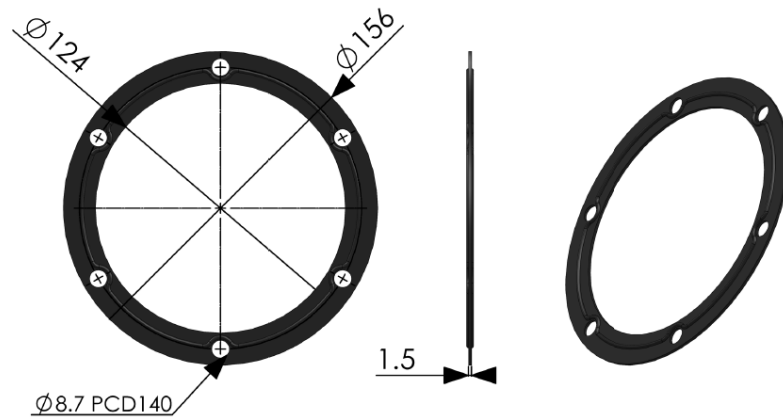
61270F – Outer bearing and cone



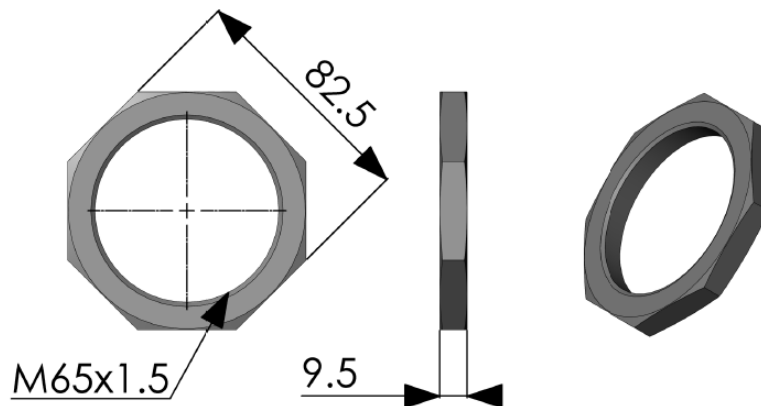
61253F – Hub



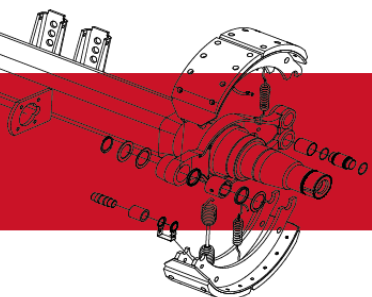
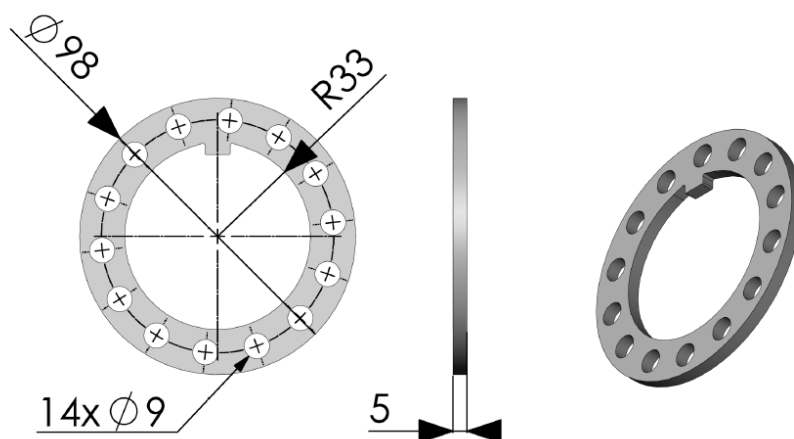
61330F – Gasket



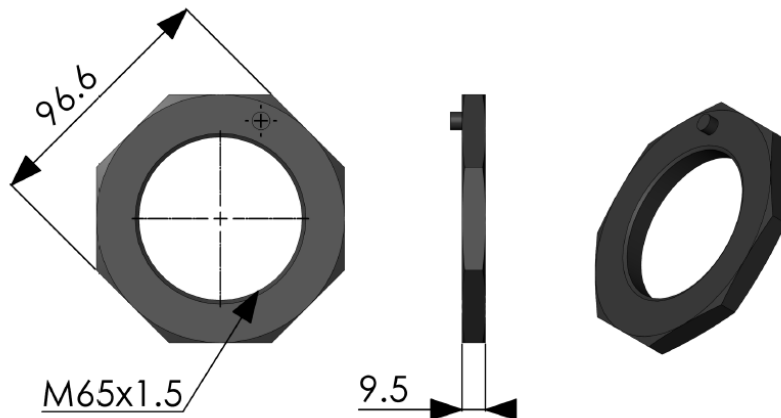
61310 – Locknut



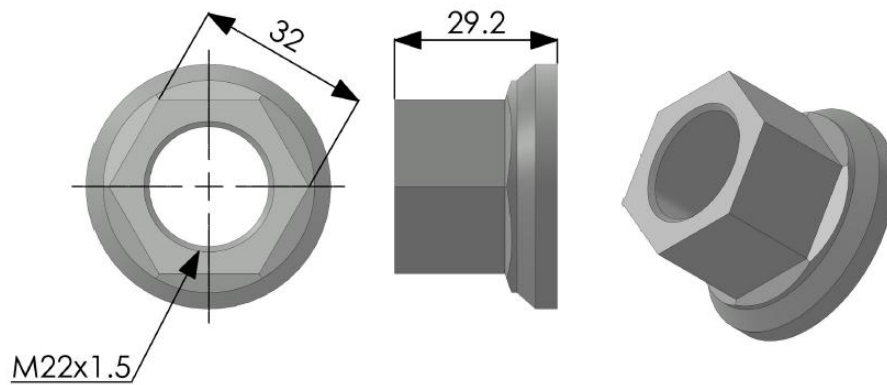
61300 – Lock Washer



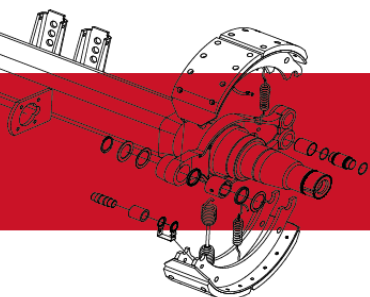
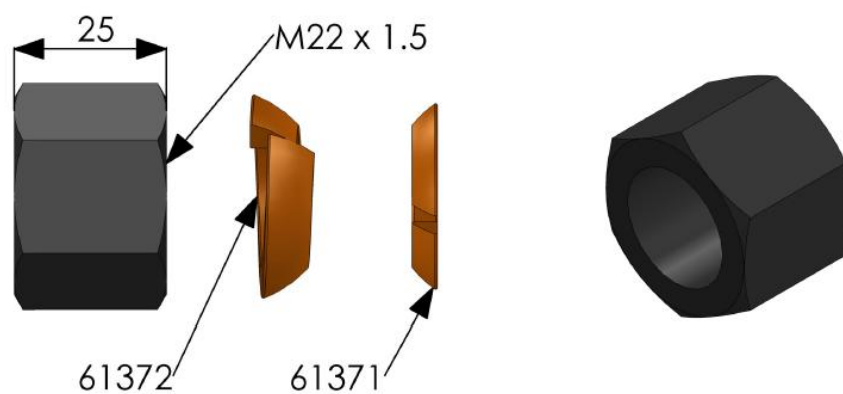
61290 – Adjusting Nut



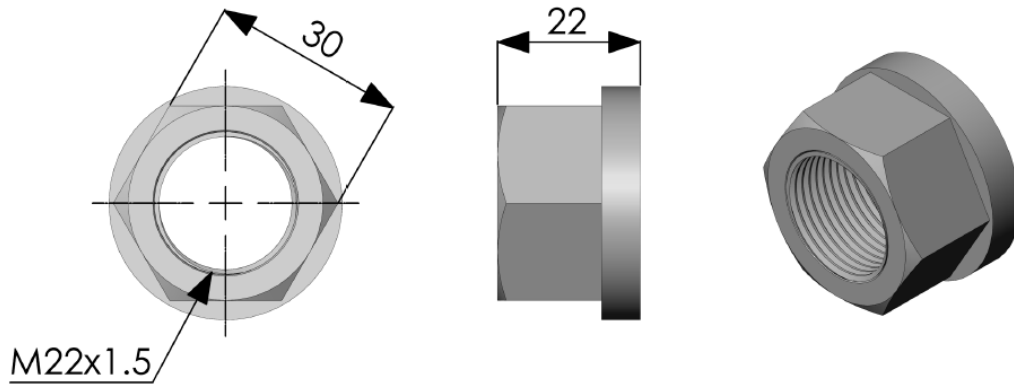
61381 – M22 ISO Wheel Nut



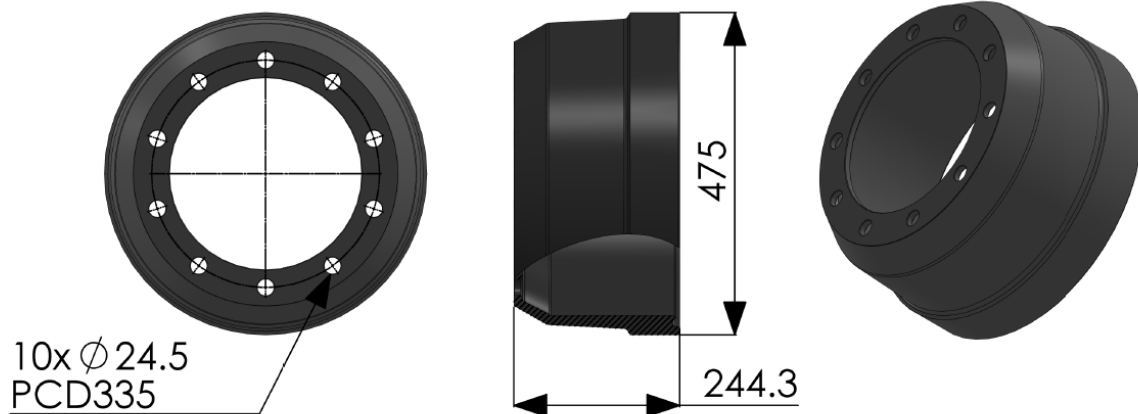
61383 – M22 DIN Wheel Nut + Washers (61372 & 61371)



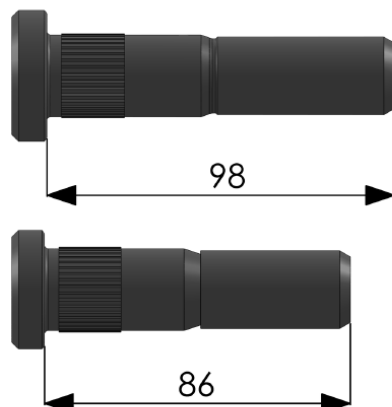
61411 – M22 DIN Wheel Nut



61243F – Brake Drum

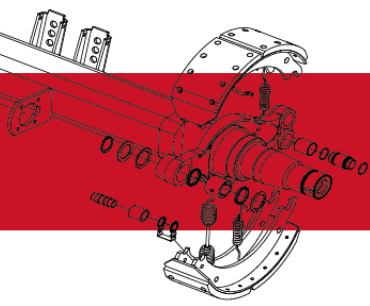


Wheel Bolt

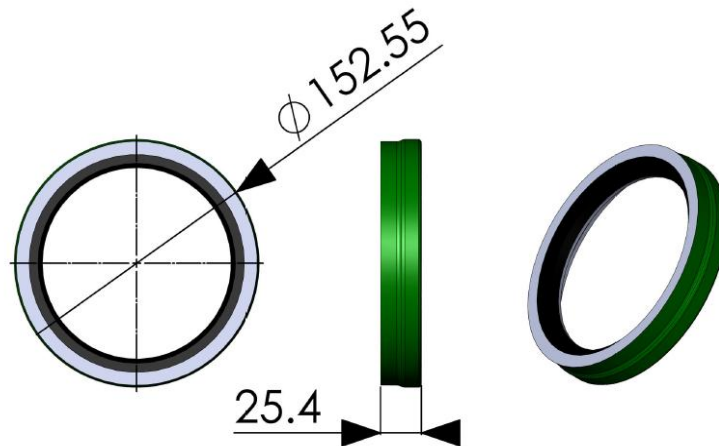


61386F M22x1.5 TWIN

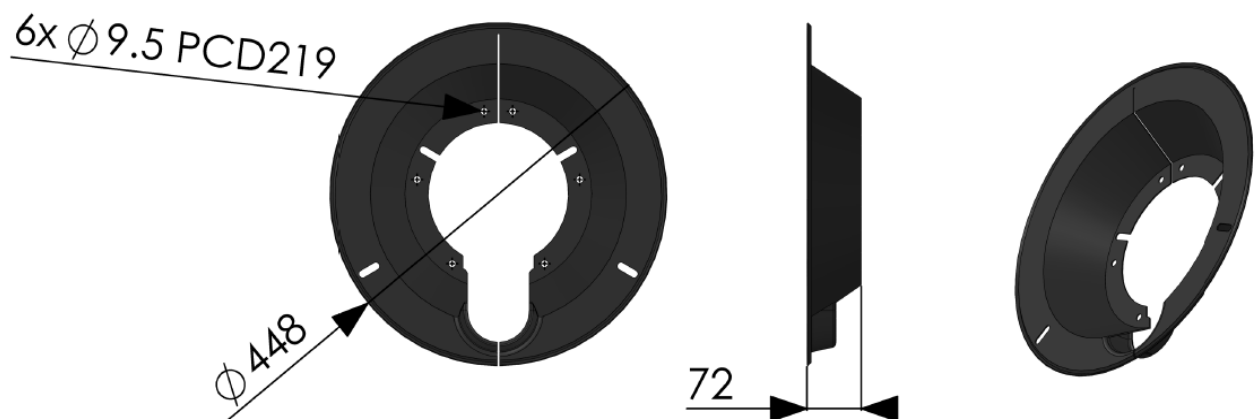
61388F M22x1.5 SINGLE



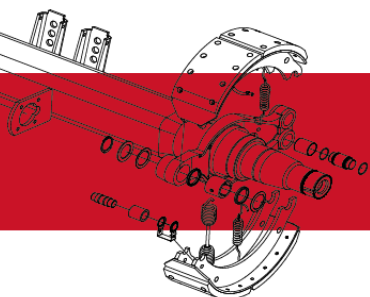
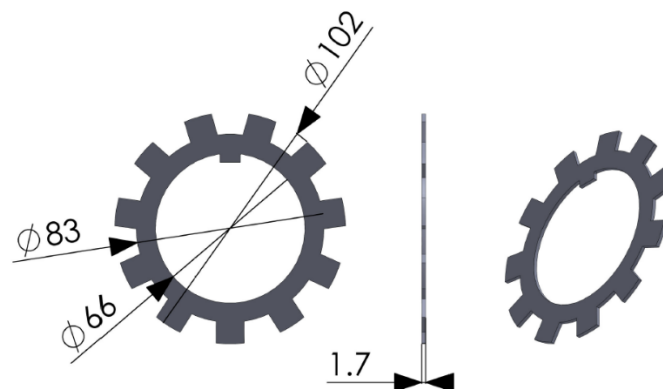
61282F – Unitised Grease Seal



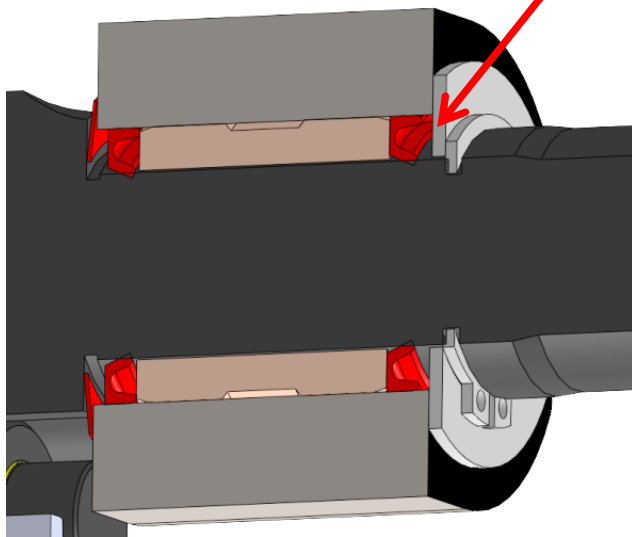
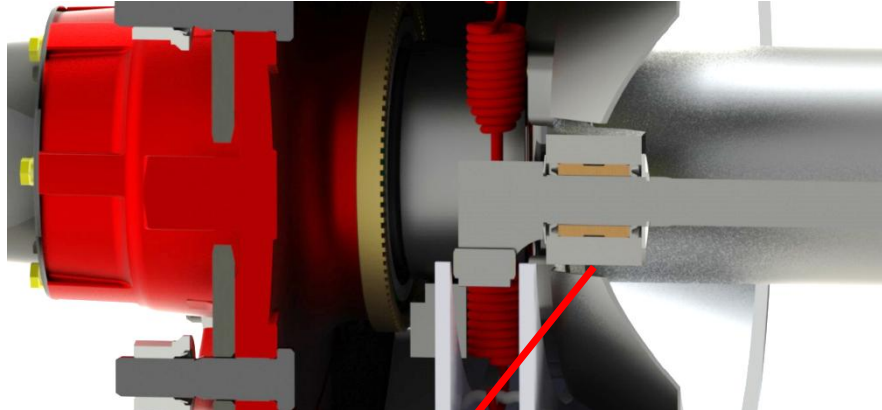
61390F – Dust Cover



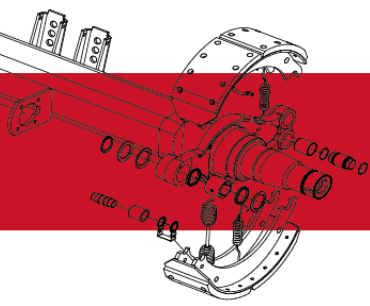
61311 – Tab Washer



Position of seals in the anchor bracket



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.



Ordering Of Sub-Assemblies

It is possible to order sub-assemblies of parts from Granning rather than ordering individual parts.

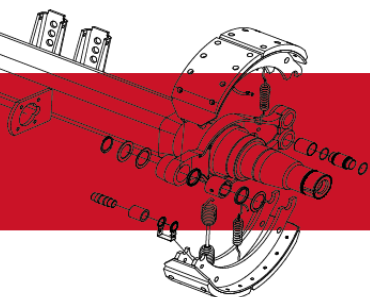


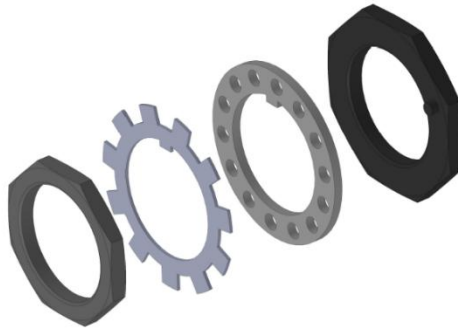
71001 – Single Wheel Stud Hub and Drum Assembly
71001W – 71001 with 1 x 100 tooth pole wheel 61789

Part Number	Quantity	Description
61243F	1	Drum
61253F	1	Hub
61270F	1	Outer Bearing
61260F	1	Inner Bearing
61388F	10	Single wheel stud
61381Z	10	ISO wheel nut
61282F	1	Unitised grease seal

71004 – Twin Wheel Stud Hub and Drum Assembly
71004W – 71004 with 1 x 100 tooth pole wheel 61789

Part Number	Quantity	Description
61243F	1	Drum
61253F	1	Hub
61270F	1	Outer bearing
61260F	1	Inner bearing
61386F	10	Twin wheel stud
61381Z	10	ISO wheel nut
61282F	1	Unitised grease seal





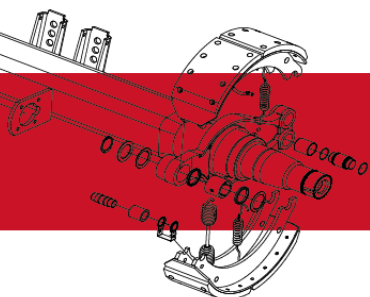
AK100 – Spindle Nut Kit

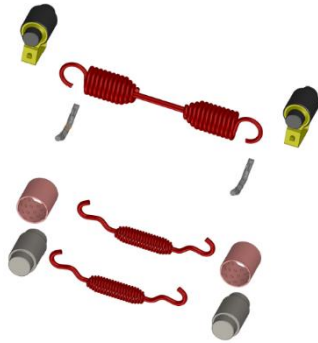
Part Number	Quantity	Description
61310	1	Locknut
61311	1	Tab Washer
61300	1	Lock Washer
61290	1	Adjusting Washer



AK102 – Hubcap Kit

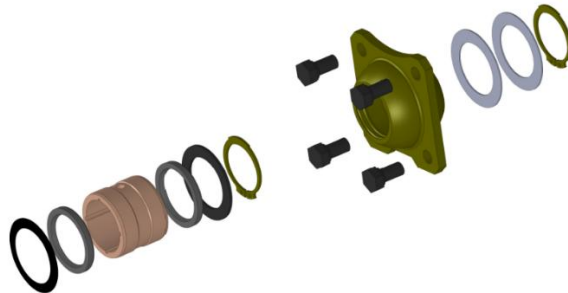
Part Number	Quantity	Description
61322F	1	Hubcap
61330F	1	Hubcap Gasket
96366F	12	M8 Serrated Washer
61358F	12	Screw M8x16 Fl. Head





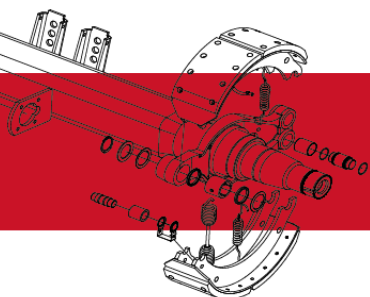
AK300 – Brake Shoe Kit (one side of axle)

Part Number	Quantity	Description
61140	1	Return spring
61141	2	Brake shoe retaining spring
61150	2	Spring anchor bar
61235	2	One Piece Cam roller
61220	2	Retainer cam roller
61200B	2	Bush anchor pin
61171	2	Anchor pin



AK200 – Camshaft Bush Kit (one side of axle)

Part Number	Quantity	Description
61080F	1	Spherical bearing
61055	1	Camshaft sintered bush
61056	2	Camshaft grease seal
61057	1	Beveled camshaft washer
61058	1	Camshaft washer
61120	2	Camshaft circlip
96365F	2	Camshaft support washer
61359	4	M8 Hex Bolt
96363F	4	Serrated Washer
96364F	4	Spring Washer





AK401 – ABS Kit (one side of axle)

Part Number	Quantity	Description
61789	1	Pole Wheel (100 tooth)
61376F	1	Sensor Block
61786	1	90 Degree ABS Lead
61557	1	Dust Cover Grommet

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.

