



## New revolutionary hub/bearing structure patent



## Easy/Simple assembly steps:

1. Insert bearings to the hub shell as usual type.
2. Roll the whole threaded axle thru. the 2 bearings w/fix direction.
3. Finished assembly w/fixing nuts fixed on both sides.

Where is the bearing hole, where is the bearing load:

## FBL-Free bearing load fixing/axle set

## Feature:

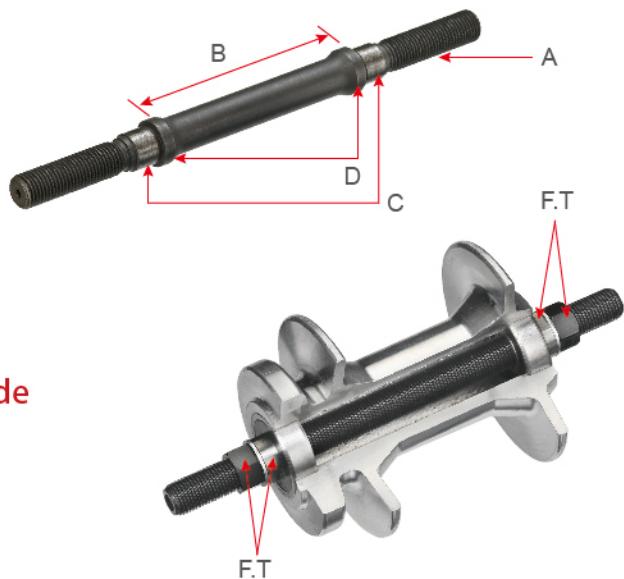
1. Patent Ind. bearing w/inner threaded core can block bearing any place of the axle.  
(Bearing code: 6Kzz-M10)



2. Fix the bearing wherever w/fix nuts on the axle  
(Defined w/hub)
3. Can follow the bearing locations on the hub automatically. (Needless measure)

## Benefits compare w/Usual bearing type axle :

- A. Cost down from needless of CNC machining.
- B. Adjustable or free load of bearing lock, relax the hub bearing distance tolerance as used to.
- C. Cost down from needless of bearing grind Dia.
- D. Cost down w/o 2 x bearing block, save material.
- E. Suit all kinds of brands/items/front-rear hub in 6000zz Ind. Bearing. Good for after-service, repair, upgrade,
- F. Pair w/Our bearing cap, steel hubs retainer bearing available.
- G. Fine turn directly from outside of the hub directly available when the axle is worn after a certain biking period.



## (FT) When the axle-worn load, fine turn from outside of the hub directly is available.

- Step1. Loosen 2 sides of fixing nuts
- Step2. Adjust the tightness from 2 sides of the inner thread bearing to resume the suit-bearing gap.
- Step3. Anti-rotating w/fix nut to set up the fine-turn.

## ABF-Adjustable bearing fixing/axle set

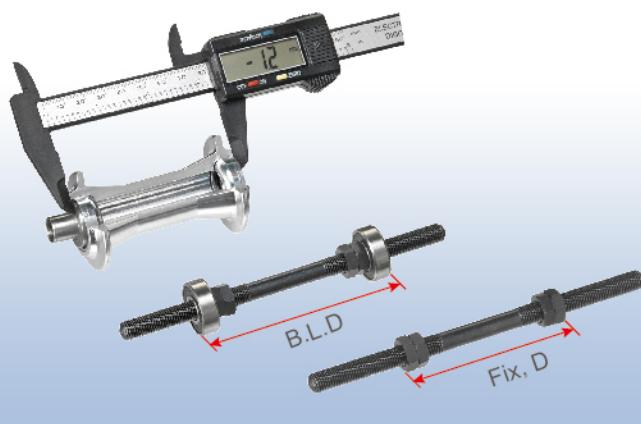
## Features:

1. By 2 pairs 2 x fixing nuts block the bearing loads of the axle.
2. Can be fitted w/steel hubs in usual retainer cap bearing types & most all kinds of alloy hubs.

Note: Inner hub thru. holes need bigger than Dia. 15mm

## Easy of set up Ur bearing loading:

1. Measure the B.L.D.(Bearing Locating Distance)
2. Delete the thickness of bearing.
3. Anti-rotating the fixing nuts, get bearing back up setting.
4. Assemble the hub w/bearings accordingly.





Free Bearing Load rear/front hollow M10 thru. axle  
**FBL-RH-M10**

1. S45C M10 x hollow axle L140/145 (optional)
2. Bearing 10 x T8 x 26 (6Kzz-M10)
3. Free wheel length spacer/washer by specify.

**FBL-FH-M10**

1. S45C M10 x hollow axle L108 (optional)
2. Bearing 10 x T8 x 26 (6Kzz-M10)



Free Bearing Load rear/front M10 thru. bolt axle  
**FBL-RB-M10**

1. S45C M10 x axle L165/175/185 (optional)
2. Bearing 10 x T8 x 26 (6Kzz-M10)
3. Free wheel length spacer/washer by specify.

**FBL-FB-M10**

1. S45C M10 x Thru. axle L130/140 (optional)
2. Bearing 10 x T8 x 26 (6Kzz-M10)



F.B.L rear bolt/hollow M10 thru. axle cap fitting

**FBL-RB-M10C** (Special bearing cap dia. \$26 x H9)

1. S45C M10 x axle L165/175/185 (optional)
2. Bearing 10 x T8 x 26 (6Kzz-M10)+bearing cap
3. Free wheel length spacer/washer by specify.

**FBL-RH-M10C** (Special bearing cap dia. \$26 x H9)

1. S45C M10 x hollow axle L140/145 (optional)
2. Bearing 10 x T8 x 26 (6Kzz-M10) +bearing cap
3. Free wheel length space washer by specify.



ABF-Adjustable bearing fixing/axle set

**ABL-FB516-CX1**

1. S45C 5/16 x axle L130/140 (optional)
2. Bearing 8 x T7 x 22 +bearing cap
3. Bearing CX1:  $\Phi 25 \times H9.5$  (w/Ext. Ring)

**ABL-FB-M9-CS**

1. S45C M9 x axle L130/140 (optional)
2. Bearing 9 x T7 x 24 +bearing cap
3. Bearing CS:  $\Phi 26 \times H9$



**ABL-FH-M9-CS**

1. S45C M9 x axle L108
2. Bearing 9 x T7 x 24 +bearing cap
3. Bearing CS:  $\Phi 26 \times H9$

**ABL-RH-M10-C**

1. S45C M10 x hollow axle L140/145 (optional)
2. Bearing 10 x T8 x 26 +bearing cap
3. Bearing C:  $\Phi 30/\Phi 29.5 \times H11$



**ABL-RB-M10-CR1**

1. S45C M10 x axle L165/175/185 (optional)
2. Bearing 10 x T8 x 26 +bearing cap
3. Cap CR1:  $\Phi 29.5/\Phi 29 \times H12$ (w/Ext. Ring)

**ABL-RH-M10-CR1**

1. S45C M10 x hollow axle L140/145 (optional)
2. Bearing 10 x T8 x 26 +bearing cap
3. Bearing C:  $\Phi 30/\Phi 29.5 \times H11$

CH. JI

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**ABL-FB-M9-CS**

1. S45C M9 x axle L130/140 (optional)
2. Bearing 9 x T7 x 24 +bearing cap
3. Bearing CS:  $\Phi 26 \times H9$

**ABL-RB-M10-C**

1. S45C M10 x axle L165/175/185 (optional)
2. Bearing 10 x T8 x 26 +bearing cap

Bearing C:  $\Phi 30/\Phi 29.5 \times H11$



**ABL-FH-M9**

1. S45C M9 x hollow axle L108
2. Bearing 9 x T7 x 24

**ABL-RH-M10**

1. S45C M10 x hollow axle L140/145 (optional)
2. Bearing 10 x T8 x 26

ABL-RB-M10

ABL-FB-M9



**ABL-FB-M9**

1. S45C M9 x axle L130/140 (optional)
2. Bearing 9 x T7 x 24

**ABL-RB-M10**

1. S45C M10 x axle L165/175/185 (optional)
2. Bearing 10 x T8 x 26

All FBL & ABL series w/hollow axle  
Can pair the QR of Jiunn Cherng &  
Frontec available

BM- 8



BM- 9



BM-10



**BM- 8** ID x 7mm x 22OD

**BM- 9** ID x 7mm x 24OD

**BM-10** ID x 8mm x 26OD

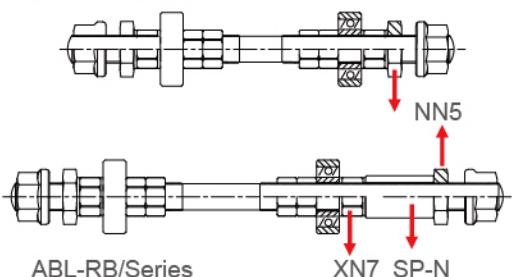


To prevent tight fixed into the bearing hole, the bearing load flange can aid in measuring the bearing distance easily. (smaller 0.2mm dia. Easily take on/off)



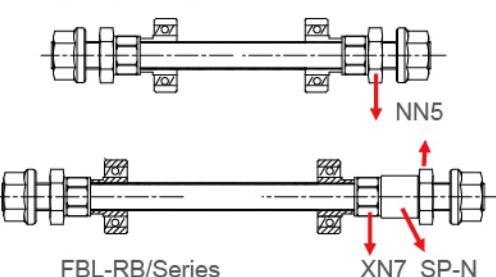
## Spacer & lock nut arrangement for order

ABL-FB/Series



ABL-RB/Series

FBL-FB/Series



6Kzz-M10



XN7



NN5



WT-N



SP-N



### Specification for OLD piled account:

XN7: For bearing fix nut x 7mmT

(pair w/2 x 1T washer when sold)

NN5: End nut 17 x 4(front), 17x5(Rear)

SPN-5/6/7/12/14 T (Tube spacer optional pick)

6Kzz-M10: Ind. 6000zz w/M10, OD 26 xT8

Ext. flange 5mm, Total ext. 13 mm

Any Questions pls contact us directly.



### Ind. bearing fitted cap dimensions:

1. ODΦ30/Φ29.5 x 11T(optional)

2. Lip flanged ODΦ29.5/Φ29 x 12T (optional)

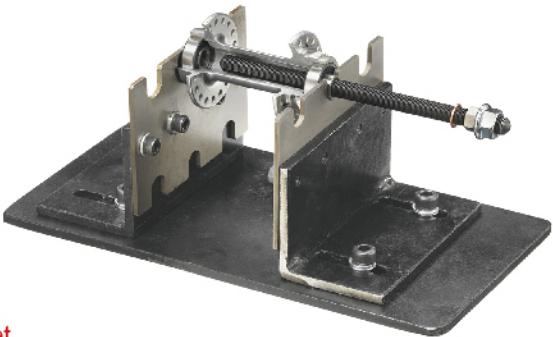
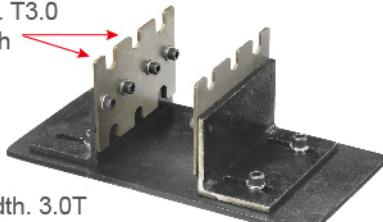
3. Lip flanged ODΦ25 x 9.5T (Used for the front wheel)

4. ODΦ25 x 8.5T

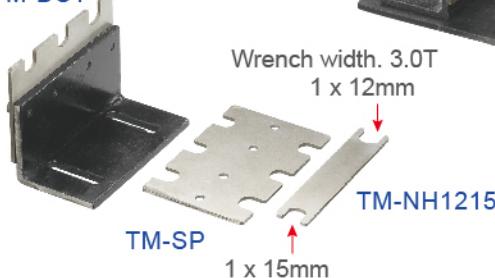
5. ODΦ24 x 8.5T

### TM-DS2 (Bearing L.D adjustable)

Gaps x 2 x 2 width. T3.0  
Gaps x 1 x 15 width



TM-DS1



### Assembly tool mold set

1. Fit 2 x 6Kzz-M10 into the both sides gaps when assembling FBL-Series.
2. Roll the thread thru. axle into the hub, counted OLD & freewheel spacer/nut single side before rool the axle.



Ind. bearing

Hub axle 4 all kinds of P.P.  
wheels by order R available.



### CH16-1S / CH16-1A / CH16-2A / CH16-2AS / CH16-3A

Hub Q.R M5, Axle is Cr-Mo

CH16-1S: w/steel nut

CH16-2A: w/Alloy nut

CH17: Hex Key Wrench

CH16-1A: w/Alloy nut

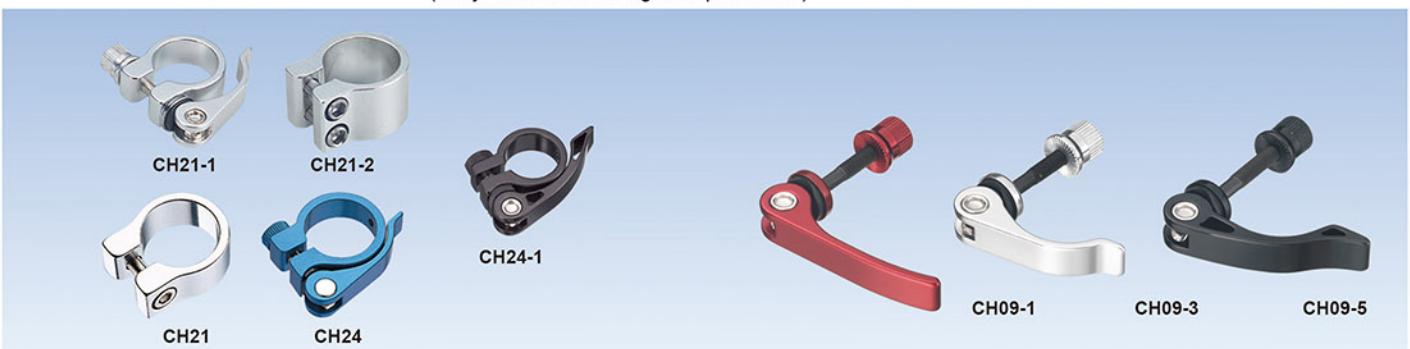
CH16-2AS: w/Alloy nut

CH16-3A: w/Alloy nut



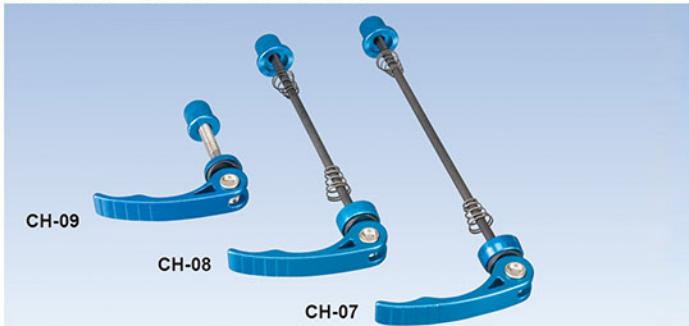
**CH53B/CH53B-1**  
Alloy Front/ Rear Quick Release  
Size to order

**CH18F/CH18R, CH18F-1/CH18R-1, CH18F-2/CH18R-2, CH18F-3/CH18R-3**  
Alloy Front/ Rear Quick Release  
Size to order  
(Alloy nut can be changed to plastic nut)



**CH21/ 21-1/ 21-2/ 24/ 24-1**  
Alloy seat pin clamp for MTB, Scooter bike.  
Diam.:25.4~34.9mm size to order.

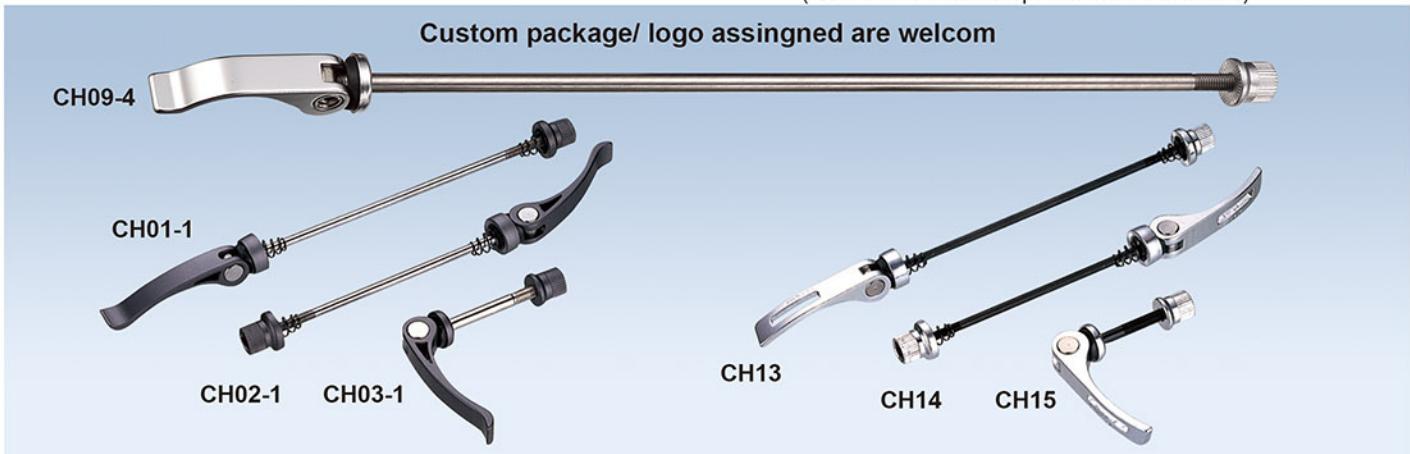
**CH09-1/ CH09-3/ CH09-5**  
Alloy Seat Pin  
6mm~ 8mm available Size to order



**CH-07, CH-08, CH-09**  
Alloy front/rear/seat pin QR set. w/assigned anodized colors available.



**CH53A / CH53A-1**  
Alloy Front /Rear Quick Release.  
(Axle: Cr-Mo/Titanium optional choice available)



**CH01-1 / 02-1 / 03-1**  
Alloy front / rear / seat pin. Quick release.  
(Axle: Cr-Mo/Titanium)  
CH03-1: 6mm~8mm

**CH13 / 14 / 15**  
Alloy front / rear / seat pin. Quick release .  
CH15: 6mm~8mm available.

**CH09-4**  
Alloy quick release / Lever: aluminum handle  
Bolt: stainless steel 303  
Nut: stainless steel 303 or aluminum  
Dia: M6/M8 / L:384mm / size: to order



**CH35 / 36 / 37**  
steel seat pin quick release  
lever nut fasten.  
Diam: XL=6mm, 8mm x 45/50/55/60  
Lever by C ring fastened  
(not shown on picture)



**CH28 / 30 / 25 / 26**  
Steel front / rear quick release.  
L: 121/126/128/155/165mm.  
Hollow axle quick release hub type.  
Front L: 9x101x108mm. for CH26  
Rear L: 10x134x136x140x145mm. for CH25

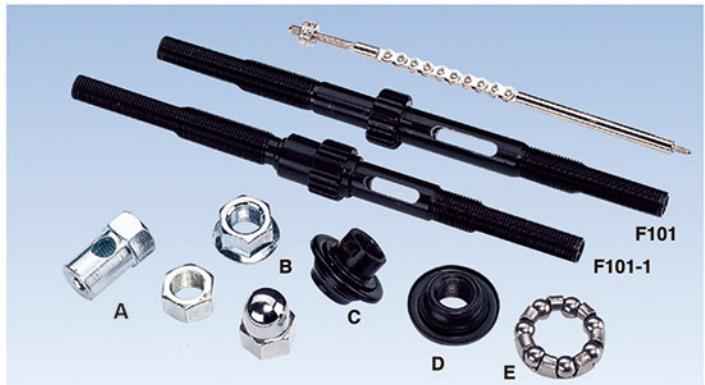


**D105-10** Steel made single pull chain tensioner for 3/8, M10 axle  
**D105-14** Steel made single pull chain tensioner for 1/2, M14 axle  
**A105-10** Alloy chain tensioner for 3/8 , M10 axle



**F105** Alloy forged chain tensioner for 1/2", M14 axle, (MF105-Dual tone machined)  
**F105-1** Alloy forged chain tensioner for 3/8", M10 axle, (MF105-1-Dual tone machined)

**A105-14**  
Alloy chain tensioner for 1/2", M14 axle



**F101-1** 3 speed internal gear set, 13 / 32" x 26T Size to order.  
All famous brand's internal gear shaft, accessories in custom order available



**CH2352A**

Spindle sets (Cr-Mo), M14, 10 piece parts.

**CH2352P**

Spindle sets (Cr-Mo), M14, 7 piece parts.

Size to order.

**2352**

Spindle sets (Cr-Mo-BK), M14, 7 piece parts.

Size to order



**66A/66B**

CH66A For sturmey-archer; 3-SP hub length: 135mm

CH66B For sturmey-archer; 3-SP hub. (5-SP optional) Length: 126 mm

**2340A/2340B**

2340A 13/32"-26T/1007, 1008:Axle nuts for sturmey-Archer 3-SP hub

U.C.P. finished; 2340B 13/32"-26T1009,

1010 Axle nuts Torpedo F & S 3-S Phub.; U.C.P. finished



**CH69 / CH69-1**

Steel clamp for seat post.

Dia: 25.4mm / 28.6mm / 31.8mm

CH69-1: Steel QR

**CH70C**

Steel saddle clamp w/inner post clips  
to reinforce gripping power



**CH70A / 70B / 70D**

Steel clamp for saddle

CH70A / with safety hook

CH70D /with carriage bolt



**F105-2** Anti-scratching heavy load nut-

(w/rotatable buckled washer)

Dimensions:14x1.0, 1/2",

M9 & M10x1.0,

24T/26T x3/8, 24T/26T x 5/16



### Model 2350

Front hub brake spindle 3/8 x 140mm

### Model 2351

Rear hub brake spindle 3/8x165mm, 175mm



### Model 2317A, 2318A, 2319A

2317A: Front spindle with dust cap.

5/16" or 3/8" x 130mm, 140mm.

2318A: Rear spindle with dust cap.

3/8" x 165mm ~ 250 mm.

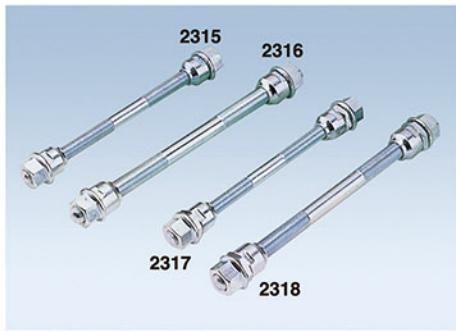
2319A: Rear spindle for 10-speed with dust cap.

3/8" x 165mm ~ 250 mm.

Custom pressed logo & custom style  
inner box assignments are welcome



Hub spindles inner box



### 2315, 2316, 2317, 2318

2315: Front spindle.

5/16" or 3/8" x 130mm 140mm.

2316: Rear spindle.

3/8" x 165mm ~ 250 mm.

2317: Front spindle.

5/16" or 3/8" x 130mm 140mm.

2318: Rear spindle.

3/8" x 165mm ~ 250 mm.



### 2311, 2312

2311: Front spindle.

5/16" or 3/8" x 130mm, 140mm.

2312: Rear spindle.

2322: Coaster hub axle, self-color, 3/8" x 182mm.

2323A: Coaster hub axle.

3/8" x 163, 175mm.



### 2319, 2321, 2320

2319: Rear spindle, For 10 speed.

3/8" x 165mm ~ 250 mm.

2320: Front spindle.

5/16" x 130mm, 140mm

2321: Rear spindle.

3/8" x 165mm ~ 250 mm.



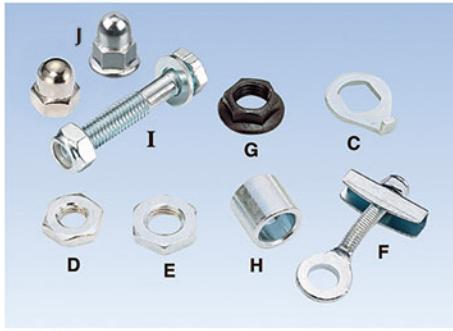
### 2324/2325/2324QR/2325QR

2324: Front hub cone. 5/16".

2325: Rear hub cone. 3/8", M14, 1/2"

2324QR: Front hub cone for QR M9

2325QR: Rear hub cone for QR M10



### 2340

(C) Hub safety washer.

(D) Front lock nut, 5/16".

(E) Rear lock nut, 3/8".

(G) Cotterless nut.

(H) Hub spacer.

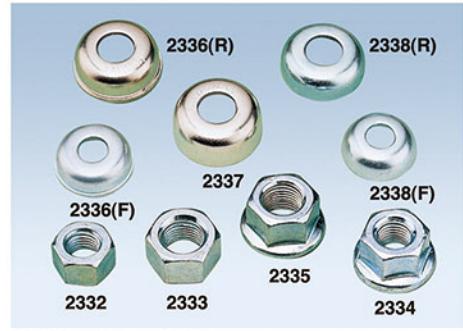
(F) Size M6X 38, 40, 45mm

(I) Size: 8x1.25x35, 38, 40, 45, 50, 55mm

Optional pair with cap nut or nylon nut upon order

(J) Cap nut 3/8x26T/24T, 5/16x26T/24T

M9&M10XP1.0



### 2336, 2337, 2338

2336: Front flange cup 5/16".

Rear flange cup 3/8".

2337: Rear hub cup 3/8".

2338: Front hub cup 5/16".

Rear hub cup 3/8".

### 2332, 2333, 2334, 2335

2332: Front hub nut.

2333: Rear hub nut 3/8" x 26T.

2334: Front nut and washer.

5/16" x 26T, 24T.

2335: Rear nut and washer.

3/8" x 26T x 24T.

M14, 1/2".