

**RIDEA**



**BOTTOM BRACKET CATALOG**

# TAIPEI CYCLE d&i award 2020

## winner

### **6CBB Gecko Grip winner of a TAIPEI CYCLE d&i award 2020**

Ridea 6CBB Gecko Grip bottom brackets were awarded by the jury of the TAIPEI CYCLE d&i awards 2020 for solving issues with Press-Fit BBs, allowing an installation similar to threaded BBs using regular tools in a lightweight and weather resistant design.

### **The First And Only Forged Carbon BB**

Ridea bottom brackets represent the summit of our best technology developments. Gecko Grip (for press-fit systems only) have been awarded by the experts and Forged Carbon material has proven excellent properties in high demanding components like pulley wheels. These two technologies make the 6CBB line the most innovative series of bottom brackets in the market.



# GRIP WITHOUT CREAK

## THE PRESS-FIT SITUATION

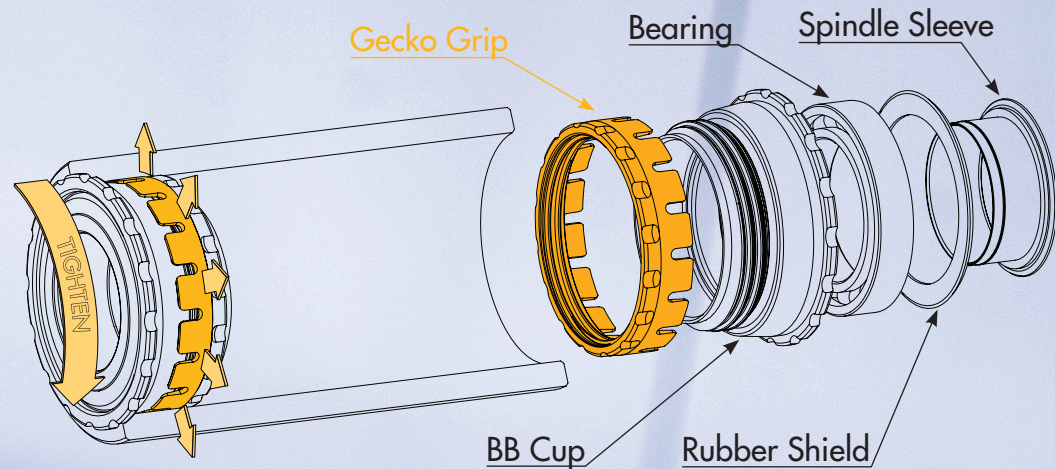
Noises, manufacturing tolerance issues, installation headaches... Press-Fit is a good concept that sometimes is not executed as well as it should be. The cycling industry has struggled to find a solution for it and some have even given up by returning to classy and trusty threaded systems.

## THE GECKO GRIP SOLUTION

Gecko Grip technology solves Press-Fit problems thanks to a clever cup design. The Gecko Grip ring threads itself into the BB cup, while expanding towards the frame's bottom bracket shell in the process. The ring evenly pressures against the frame's BB shell, adapting to it no matter how well, or bad, the frame was manufactured. Unlike threaded-fit solutions, Gecko Grip bottom brackets do not add extra weight to your bike setup.

## TAKING CARE OF YOUR FRAME

Gecko Grip bottom bracket installation process is gentler with frame's BB shell area, protecting the carbon fiber of your frame from abrasion and scratches that could potentially reduce the life of your frame.



# FORGING THE FUTURE

Forged Carbon is an innovative composite with a combination of properties that outperform common materials used in bicycle components. Unlike traditional carbon fiber, Forged Carbon can be precisely shaped and therefore is not limited to simple tubing shapes.

Ridea has already successfully implemented Forged Carbon in parts that suffer great mechanical stress under use, like pulley wheels and bottom bracket cups, proving the incredible resistance of the material. We are currently testing the application of Forged Carbon composite to many other bicycle parts in search for an industry leadership in Forged Carbon composites.

	Aluminum alloy	Plastic	Carbon fiber	RIDEA's Forged Carbon
Vibration reduction	Poor ❌	Very good ✅	Good	Very good ✅
Hardness	Very hard ✅	Soft ❌	Hard	Hard
Weathering resistance	Poor ❌	Good ✅	Coated surface: good Non-coated surface: poor	Good ✅
Tensile strength	Good ✅	Poor ❌	Good ✅	Good ✅
Elasticity	Very poor	Acceptable	Good ✅	Good ✅
Wearing resistance	Acceptable ❌	Poor ❌	Coated surface: good Non-coated surface: poor	Good ✅
Manufacturing tolerance	Good ✅	Acceptable	Poor ❌	Acceptable
Attainable shapes	Complex ✅	Complex ✅	Simple ❌	Complex ✅
Specific gravity (less is better)	2.7 ❌	0.8-1.1 ✅	1.3-1.4	1.3-1.4

✅ best ❌ worse

# Press Fit Carbon



**CN B86 24**



**CN B30 24**



**CN B30 30**



**CN B3A 24**



**CN 386 30**



**CN F30 30**



**CN F30A 30**



**CN BBR 30**



Frame	P/N	Specification	Spindle Ø	Bearings
BB86	CN B86 24	Ø41 L 86.5/91.5mm	24	6805
BB30	CN B30 24	Ø42 L 68mm		
	CN B30 30	Ø42 L 68/73mm	24/25/29/30	6806
BB30A	CN B3A 24	Ø42 L 73mm	24	6805
BB386	CN 386 30	Ø46 L 68mm	30 (For BB30 Crankset)	6806
		Ø46 L 86.5/91.5mm	24/25/29/30	
PF30	CN F30 30	Ø46 L 68mm		
PF30A	CN F3A 30	Ø46 L 73mm		
BB Right	CN BBR 30	Ø46 L 79mm		

# Threaded Carbon



**CN 47A 30**



**CN 47B 30**



**CN 47C 30**



**CN 47D 30**



**CN BSA 24**



Frame	P/N	Specification	Spindle Ø	Bearings
BSA	CN BSA 24	1.37x24 L 68/73mm	24	6805
T47	CN 47A 30	M47x1 L 86.5/91.5mm	24/25/29/30	6806
	CN 47B 30	M47x1 L 68mm		
	CN 47C 30	M47x1 L 73mm		
	CN 47A 30	M47x1 L 79mm		

# Threaded Alloy



Black Red Gold Silver

LS ITA 24



LS ITA 30



RS BSA 24



LS BSA 24



LS BSA 30



Frame	P/N	Specification	Spindle Ø	Bearings
ITA	LS ITA 24	M36x24 L 70mm	24	<b>CS</b> <b>C</b> 6805
	LS ITA 30		24/25/29/30	<b>CS</b> <b>C</b> 6806
BSA	RS BSA 24	1.37x24 L 68/73mm	24	<b>S</b> 6805
	LS BSA 24			<b>CS</b> <b>C</b> 6805
	LS BSA 30		24/25/29/30	<b>CS</b> <b>C</b> 6806

# Press Fit Metal

1

Black

LS B86 24



RS B86 30 (Bearing Steel)



LS 386 30



LS B30 30



LS F30 B3



LS F30 30

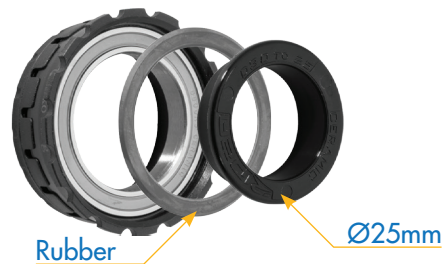
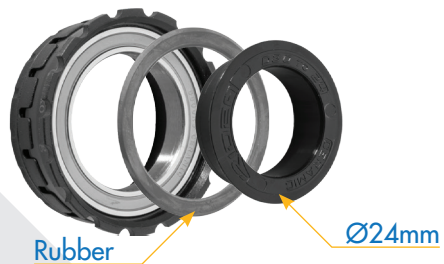


Frame	P/N	Specification	Spindle Ø	Bearings
BB86	LS B86 24	Ø41 L 86.5/91.5mm	24	<b>CS / C</b> 6805
BB30	RS B86 30		29/30	<b>S</b> Shell & Bearing All In One
BB386	LS 386 30	Ø46 L 86.5/91.5mm	24/25/29/30	<b>CS / C</b> 6806
BB30A	LS B30 30	Ø42 L 68mm		
BB386	LS F30 B3	Ø46 L 68mm	30 (For BB30 Crankset)	
BB386	LS F30 30		24/25/29/30	



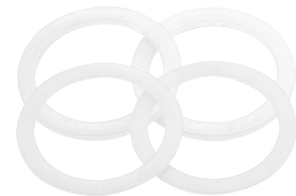
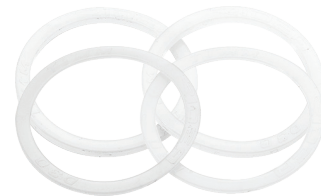
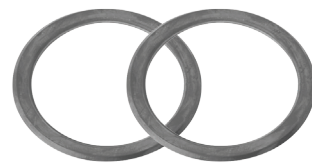
# Compatible With All Cranksets

6806 bearings for Ø30



For Ø30 Kits

Designed for 24, 25, 29, 30 mm cranksets



# Compatible With Ø24 Cranksets

6805 bearings for Ø24



For Ø24 Kits  
Designed for 24 mm cranksets



## BB maintenance

(Every three months or during a bike wash)

- Uninstall the crankset to access the bearings. Remove the spindle sleeve and the rubber shield. Thoroughly clean the bearing area. When dry, apply grease in the area.
- Do not use high-pressure water to avoid water from soaking into the BB shell.
- In case a more in-depth maintenance is required, we recommend this should be done by a skilled mechanic.



## Basic Bearings

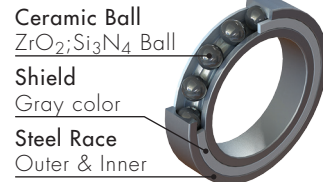
**C** Ceramic Ball-Steel Race

**S** Steel Ball-Steel Race

Size: 6805

Size: 6806

Size: 6805

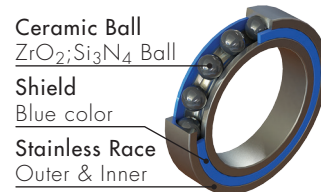


## Special Bearings

**CS** Ceramic Ball-Stainless Race

Size: 6805

Size: 6806



Ridea bottom brackets are available in several bearing combinations for better adaptability to different riding needs, budget constraints and crankset standards.

Inner & Outer Races	Ball Bearings	Dust Cover	Bearings Warranty	Bearings
Stainless Steel	Ceramic	Blue	4 Years	6805-6806
Steel	Ceramic	Gray	1 Years	6805-6806
Steel	Steel	Black	1 Years	6805

# RIDEA BB Tools

Our components are cleverly designed to require lower torque than other designs. PBB386/86-ER BB tool has been designed to match our torque and material specifications to protect your Ridea components during installation and maintenance services.

Tool Model	Material	Size (Double Sided)	Tighten With	Maximum Torque	Ideal For
PBB ER A	Alloy 7075	16-notch 44 mm OD 16-notch 49 mm OD	10 mm Hex Wrench	50 N.m	Alloy BB Cups Pneuma Cranksets
PBB ER C	Forged Carbon	16-notch 44 mm OD 16-notch 49 mm OD	10 mm Hex Wrench	35 N.m	6CBB Cups Pneuma Cranksets
PBB ER S	Stainless Steel	16-notch 44 mm OD 16-notch 49 mm OD	Hand Turn		Alloy BB Cups



P/N: PBB ER A



P/N: PBB ER C



P/N: PBB ER S

Double sided BB tool compatible with 16 notches 44/49 mm BB cups, including all Ridea bottom brackets. Tighten with a 10 mm hex wrench.

PBB ER S is a double sided 16-notch 44 mm OD cups and 16-notch 49 mm OD cups made of carbon steel. It provides a higher leverage for higher torque applications.

# Prepping The Frame



**STEP 1**

Use a tapping tool to tap the threads of the BB shell.



**STEP 2**

Use a facing tool for cleanup the faces of the BB shell.



**STEP 3**

Thoroughly clean the threads.



**STEP 4**

Inspect the threads to confirm the job.



**STEP 5**

BB cup and shell must be perfectly aligned.

## Avoid These

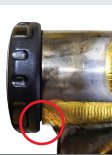
**X**



**01**

BB shell edge has rough edges.

**X**



**02**

BB cup and shell are not perfectly aligned.

# BB Installation Notes

## Press-Fit (BB86 - BB386 - BB30 - PF30)



1. BB shell must be completely clean. Do not use grease.



1. Use grease.

## Press-Fit (BB86)



1. Use grease.
2. Install with a bearing cup press.

## Threaded (T47)



1. Use thin oil.
2. Use a tapping tool to tap the threads of the BB shell.
3. Use a facing tool for cleanup the faces of the BB shell.



1. Use thin oil.
2. Use a tapping tool to tap the threads of the BB shell.
3. Use a facing tool for cleanup the faces of the BB shell.

## Threaded (BSA - ITA)



1. Use grease.
2. Use a tapping tool to tap the threads of the BB shell.
3. Use a facing tool for cleanup the faces of the BB shell.

The logo for RIDEA features the word "RIDEA" in a bold, white, sans-serif font. A red horizontal line is positioned above the letter "I".

RIDEA CYCLING | 