

# New!



## CY4-SHC 12S

**12**  
SPEED

— Ultra-high performance chainring, with superior functionality to any other ovals —

New addition to **CYCLOID SHC<sup>II</sup>** series, for Shimano 12-speed ! We offer standard 34T/36T and super small 32T/33T which provides optimal low gearing for hill climbs.

### ① CYCLOID II mechanism

CYCLOID 2 is a **non-circular chainring** developed uniquely by Sugino. **Autofocus mechanism** incorporating special teeth design enhances features of the non-circular ring.

#### Non-circular chainring

Different features and appearance from circular ring. It increases the diameter during the power phase, while the diameter is minimized at the top and bottom dead points to allow quick spinning. It provides more efficient pedal rotation.



#### Autofocus mechanism

When forth is applied to pedal, chain moves outward and runs higher on the ring. You feel the ring increases the diameter. As amount of moving fluctuates by the force applied, it maximizes the benefits of non-circular ring and assists your pedal stroke to remain efficient.



- No need of pedal stroke analysis to identify peak point and mounting position.
- Smooth and efficient pedaling are ensured at all time.

### ② Shifting performance

Perfect shifting performance without the feeling of it being oval. No dropped chain and no need to run a chainwatcher.

### ③ Super Hill Climb

**Special design. Ultralight. Super small ring** helps climb steeper hills effectively. CNC machined from super high-strength aluminum, extremely rigid, yet lightweight, offer benefits when climbing and riding long distances.



### CY4-SHC 12S

Type	Double (Inner)	
P.C.D.	110mm (Shimano)	52-36T 52-33T
Teeth	33, 36T (for 52T) 32, 34T (for 50T)	50-34T 50-32T
Compatible Cranks	Shimano 12-speed ·FC-R9200 (DURA-ACE) ·FC-R8100 (ULTEGRA) ·FC-R7100 (105)	FC-RS520 not compatible
Color	● Gold, ● Black	

\*Shimano crank is not included.

\*Use the specified tooth configuration with genuine Shimano outer ring.

\*FC-RS520 which is 12-speed crankset with equivalent features to FC-R7100 is not compatible with "CY4-SHC 12S". For FC-RS520, use "CY4-SHC 12S-RS520".

#### 804 for SHIMANO



Replacing bolts with Special bolts for CY4-SHC to save more weight.

High-strength aluminum alloy torx bolts, more durable than a standard alloy bolt.

Color : ● Silver ● Black

## CAPACITY BOOSTER

New pulleys for Shimano 12-Speed ! Just swapping out Shimano original pulleys to CAPACITY BOOSTER increases rear derailleur capacity and prevents chain slack when CY4-SHC 32T or 33T is used.

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### CAPACITY BOOSTER 12S DA CAPACITY BOOSTER 12S UL/105

Bearing	Ceramic
Teeth	Guide Pulley 12T Tension Pulley 16T
Compatible Derailleur	Shimano 12-speed <b>DA version</b> ·RD-R9250 (DURA-ACE) <b>UL/105 version</b> ·RD-R8150 (ULTEGRA) ·RD-R7150/R7100 (105)
Finish	S3 coating

\*Shimano rear derailleur is not included.



#### CHAINWHEEL

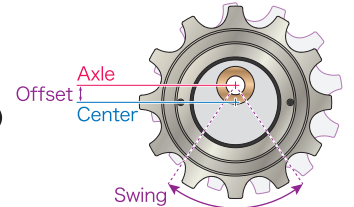
DURA-ACE FC-R9200	52T	CY4-SHC 12S - 36T CY4-SHC 12S - 33T
ULTEGRA FC-R8100	50T	CY4-SHC 12S - 34T CY4-SHC 12S - 32T
105 FC-R7100	50T	CY4-SHC 12S-RS520 - 32T

\*For 34T and 36T, either Shimano original pulleys or CAPACITY BOOSTER can be used.

\*For 32T and 33T, the use of CAPACITY BOOSTER is required.

### ① Swing Eccentric Mechanism

As the axle is fixed eccentrically, the pulley resonates with the motion of the rear derailleur and adjusts its position to cogs automatically. So, shifting is just as accurate as it is with the original pulleys.



### ② Rotational resistance

Oversized pulleys and ceramic bearing reduce rotational resistance.

### ③ Friction resistance (S3 coating)

S3 combines high hardness with super low friction coefficient less than half that of the titanium coating. So, the chain resistance can be reduced to the minimum.

#### REAR DERAILLEUR

DURA-ACE RD-R9250	CAPACITY BOOSTER 12S DA
ULTEGRA RD-R8150	CAPACITY BOOSTER 12S UL/105
105 RD-R7150 RD-R7100	

