

# New!



## New IDS24 series OX2-901D

### New OX finally completed!

IDS24 axle, the most vital part of the crank, was upgraded to enhance overall performance.

- All-round chainwheel offers high performance in various fields.
- Dual-PCD enables the use of the inner ring as small as 30T.
- Wide range of gearing ratios and crank lengths.

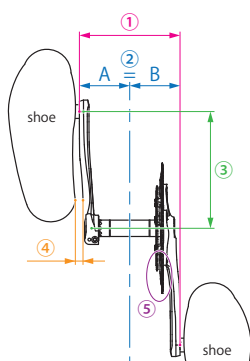


### OX2-901D Compact Plus+ OX2-901D Classic Compact Plus+

P.C.D.	: 110mm - 110mm / 74mm
Axle Type	: IDS24
Compatibility	: SHIMANO 11 Speed / 10 Speed
Chain Line	: 43.5mm
Q-Factor	: 145mm
Crank Material	: Hard forged aluminum alloy
Crank Length	: 160 / 165 / 167.5 / 170 / 172.5 / 175mm
Color	: Silver / Black
Combinations	: 52-36T 50-36T / 50-34T 48-36T / 48-34T / 48-32T 46-36T / 46-34T / 46-32T / 46-30T 44-32T / 44-30T



\*The same specification but with different graphics.



- ① Super Low Q-factor 145mm
- ② Perfectly symmetrical Q-factor  
It ensures smoother and efficient pedaling.
- ③ Crank lengths  
Available from 160mm up to 175mm depending on physical needs and riding styles.
- ④ Large ankle clearance  
It keeps the shoe from rubbing the crank.
- ⑤ Shifting performance  
Perfect shifting, no chain troubles such as chain drop.

#### What is Compact Plus+?

Sugino Original mounting pattern, inner ring can either be a 110mm or 74mm PCD, enables the use of super small inner ring 30T & 32T, offers great performance gain at hill climb, cyclocross, granfondo, etc. where physical strength is required.



### New IDS24 AXLE

Ø24mm Through Axle



#### New IDS24 AXLE

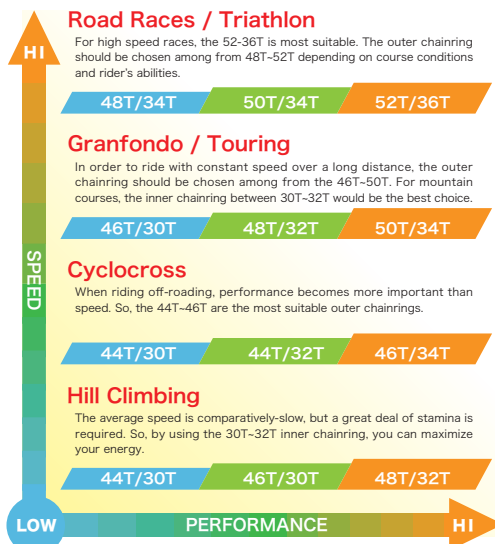
High level of strength and corrosion resistance are achieved. It is designed to provide optimal stress distribution, and manufactured in ultra-high precision, with beautiful gold finish.

#### Adjustable Pressure

Special design for OX2 for fine pressure adjustment to create perfect fit, which ensures utmost performance of high precision bearing.



Adjustable Bolt (M18)



## New IDS24 series

# OX2

OX2-901D featuring  
new aerodynamic  
“AIR” chainring  
for racing.



Road



Hill climb



Cyclocross



Triathlon



11 SPEED



10 SPEED



IDS24



Ø24mm Axle



160 - 175mm



### OX2-901D AIR

P.C.D.	: 110mm
Axle Type	: IDS24
Compatibility	: SHIMANO 11 Speed / 10 Speed
Chain Line	: 43.5mm
Q-Factor	: 145mm
Crank Material	: Hard forged aluminum alloy
Crank Length	: 160 / 165 / 167.5 170 / 172.5 / 175mm
Color	: Black
Combinations	: 52-36T 50-36T / 50-34T

\* Compact Plus+ is not available.



(Outer chainring)

**AIR**

- Aerodynamic design suitable for racing
- High rigidity and perfect power transmission
- Precision machined ultra-round ring, no wobbling less chain noise
- Smooth shifting without loss of power

Aerodynamic chainring available in 50T & 52T, suitable for racing. Precisely machined recesses provide a good balance between weight-saving and rigidity, and give more sporty appearance.

# CXC2

Chainwheel set for Cyclocross,  
featuring high-rigid aerodynamic  
outer ring and special inner ring  
designed and new IDS24 axle.



### CXC2-901D

P.C.D.	: 110mm - 74mm
Axle Type	: IDS24
Compatibility	: SHIMANO 11 Speed / 10 Speed
Chain Line	: 43.5mm
Q-Factor	: 145mm
Crank Material	: Hard forged aluminum alloy
Crank Length	: 160 / 165 / 167.5 170 / 172.5 / 175mm
Color	: Black
Combinations	: 46-36T



Cyclocross



11 SPEED



10 SPEED



IDS24



Ø24mm Axle



160 - 175mm

### CYCLOID II (Inner chainring)

Non-circular inner ring alternates gearing between 32T and 39T, allows you to quickly spin through the top and bottom dead spots. Incorporating Autofocus mechanism, it helps you ride through difficult terrains such as mud, soil and steel slope.



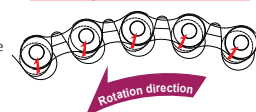
The special tooth profile prevents chain-drop and mud clogging.

#### What is Autofocus mechanism?

When the great amount of power is produced in the pedal stroke, the chain moves outward, and the ring increases the diameter to the maximum. As the gearing is modulated automatically according to the pedal power, you can get effective gearing throughout the pedal stroke.

- There is no need of pedal stroke analysis for detecting peak point or adjustment of mounting position.
- As positional relation with outer ring is fixed, excellent shifting is ensured.

#### At the most powerful moment of the stroke



## BB for IDS24 series (sold separately)

Left-right integrated type of Bottom Bracket with special creak-free structure.

### POWER SLEEVE

Bearing	: Ceramic balls
Axle	: Sugino IDS24 Shimano Hollowtech II
Line up	: BB386EVO PF30 / PF30A BB30 / BB30A



BB converter enables to install crankset with Ø24mm axle (Sugino, Shimano) to various frame standards.

### B.B. CONVERTER

Bearing	: Ceramic balls / Steel balls
Axle	: Sugino IDS24 Shimano Hollowtech II
Line up	: BSA / PF BB86 BB386EVO PF30 / PF30A BB30 / BB30A



BB set specific to TREK-BB90, has superior water & dust protection and durability for continued high performance.

### Sugino BB90 SUPER CERAMIC

Bearing	: Ceramic balls
Axle	: Sugino IDS24 Shimano Hollowtech II

