

New!

SUGINO

OX3-920D



New addition to OX series, the long-awaited **12 speed version** is now available!

Further evolved smooth and quiet shifting mechanism enables more effective power transmission. It's optimized for long-distance rides and hill climbing.

Axle type	IDS24 (φ24mm axle)
P.C.D.	110- 74mm Compact Plus+
Chaining	46- 30T (*1)
Crank length	160, 165, 167.5, 170, 172.5, 175mm
Q-factor	143.6mm
Chain line	44.5mm (*2)
Rear speed	Shimano 12 Speed road (*2)
Chain	Shimano HG 12 Speed
Color	Silver

*1 : There are 2 shape options for the inner chaining. For details, refer to the next page.

*2 : For 12 Speed road only. Not compatible with GRX due to different chainline.

IDS 24 ⇄ **II**
HOLLOWTECH
IDS24 is compatible with Shimano Hollowtech 2.

OUTER CHAINRING

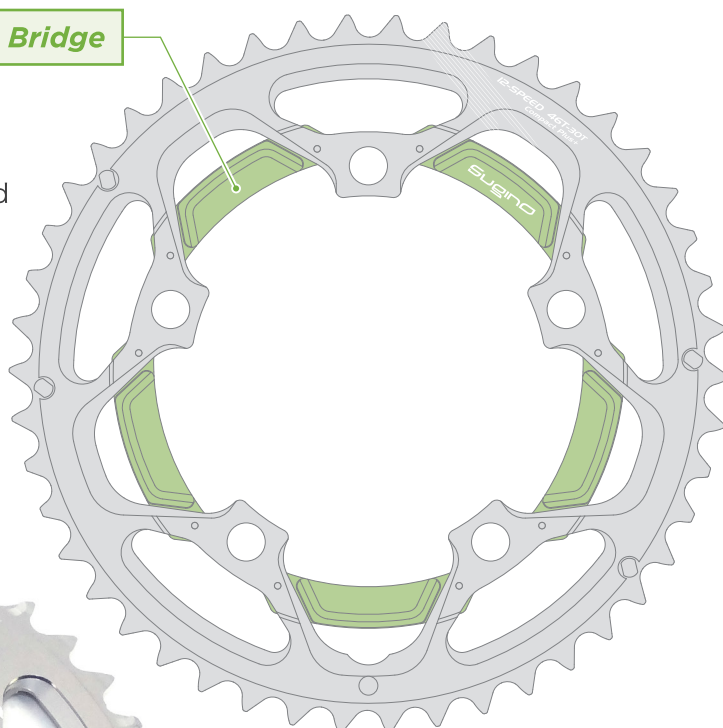
Enforce Bridge

Key feature of OX3!

New chaining designed by using unique patented technology, which is the main feature of OX3. Thus, high-performance OX series has further evolved to deliver even more advanced performance.

- ✓ The special design contributes to rigidity and efficient power transmission.
- ✓ The special design facilitates more efficient chain engagement, resulting in quieter and smoother shifts without power loss.

Enforce Bridge



NEXT ➤

New!

SUGINO

**12
SPEED**

**IDS
24**
Ø24mm Axle

CYCLOID II
CYCLOID II

OX3-920D

Axle type	IDS24 (Ø24mm axle)
P.C.D.	110-74mm Compact Plus+
Chainring	46-30T (*1)
Crank length	160, 165, 167.5, 170, 172.5, 175mm
Q-factor	143.6mm
Chain line	44.5mm (*2)
Rear speed	Shimano 12 Speed road (*2)
Chain	Shimano HG 12 Speed
Color	Silver

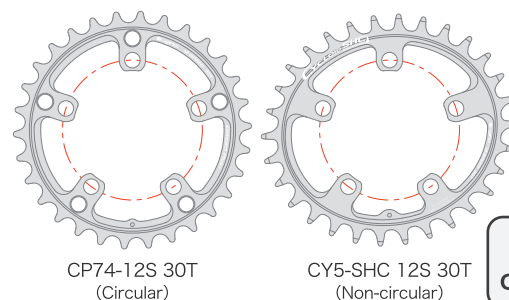
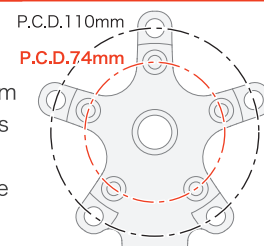
*1 : There are 2 shape options for the inner chainring.

*2 : For 12 Speed road only. Not compatible with GRX due to different chainline.

INNER CHAINRING

Compact Plus+

The dual P.C.D. design enables the use of P.C.D.74mm super small inner ring, which is ideal for long-distance rides, hill climbing, Granfondo, where stamina is required.



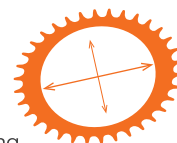
Two options

CYCLOID SHC
Super Hill Climb

Non-circular chainring with special features unlike any other ovals, developed uniquely by Sugino.

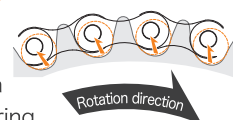
Non-circular chainring

It increases the diameter during the power phase and minimizes it at the top and bottom dead spots to ensure more efficient pedaling. Also, its shifting performance is perfect as circular chainrings.



Autofocus mechanism

Under hard pedaling, the chain moves higher on the teeth which feels like pedaling a larger chainring. The vertical position of the chain on the teeth suitably changes depending on the pedal force so the pedaling is always smooth. No need of pedal stroke analysis to identify the peak point.



Super Hill Climb

Special mechanism, ultra-lightweight, Compact plus, crucial features for boost your performance in hill climbing.



CRANK

IDS24 Axle



IDS24 Axle

Ø24mm axle has both high rigidity and high corrosion resistance. Its precision design contributes to optimal stress distribution.

Adjustable bolt

The pressure bolt provides a fine adjustment to apply light pressure, ensuring the crank spins smoothly.



IDS 24 ⇌ **HOLLOWTECH II**

IDS24 is compatible with Shimano Hollowtech 2.

① Super-low Q-factor

② Perfectly symmetrical Q-factor

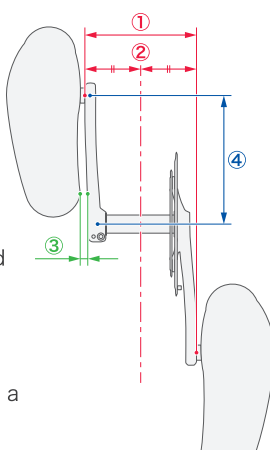
Q-factor is 143.6mm, lower than the existing model and perfectly symmetrical, which is crucial for body comfort and ensuring smooth pedaling.

③ Ankle clearance

While being Super-low Q-factor, it's designed to secure enough ankle clearance. So, your shoes won't rub the cranks.

④ Crank lengths

Available from 160mm short crank. There're a wide range of sizes offered.



SUGINO ENGINEERING CORPORATION



<https://www.suginold.co.jp/us/>
Specifications are subject to change without notice due to continual improvements.



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