

CDB (Centrifugal Disc Bail)

Okuma's Centrifugal Disc Bail (CDB) is a unique new design that incorporates a heavier brass disc that is perfectly weighted and balanced to create a smoother and easier bail operation, while increasing the strength and stability of the overall bail function.



Helios SX



Progressive Drag

1-K woven carbon fibre drag knob which reduces weight and creates a more progressive drag setting.

Helios SX Spinning Reel Features:

- Light weight C-40X carbon frame and sideplates
- C-40X Cyclonic Flow Rotor for corrosion resistance
 - TCA: Torsion Control Armor reduces twisting
- 8HPB + 1RB corrosion resistant stainless steel bearings
 - Quick-Set anti-reverse roller bearing
 - Precision machine cut brass pinion gear
- ALG: Precision AlumiLite alloy main gear and oscillating gears
 - Rigid, machined aluminum, anodized handle
 - Light weight, EVA handle knobs for comfort
 - Precision Elliptical Gearing system
 - Machined aluminum, 2-tone anodized spool
 - Heavy duty, solid aluminum bail wire
- RESII: Computer balanced Rotor Equalizing System



Helios SX

Model	Gear Ratio	Bearings	Weight (oz.)	Line retrieve	Max Drag Force (lbs)	Monofilament line capacity yds/lbs (diameter in mm.)	Braided line rating (Tuf line)	Frame	Sideplates	Rotor	Spool
Standard speed spinning reels											
HSX-20	5.0:1	8HPB+1RB	7.1	21.9"	13	200/4(0.17), 120/6(0.22), 95/8(0.25)	130/10, 110/15	C-40X	C-40X	C-40X	AL
HSX-30	5.0:1	8HPB+1RB	7.3	24.8"	13	230/6(0.22), 180/8(0.25), 120/10(0.30)	180/15, 130/20	C-40X	C-40X	C-40X	AL
HSX-40	5.0:1	8HPB+1RB	9.2	25.2"	13	260/8(0.25), 185/10(0.30), 165/12(0.32)	215/30, 150/40	C-40X	C-40X	C-40X	AL
High-speed spinning reels											
HSX-40S	5.8:1	8HPB+1RB	9.2	32.1"	13	260/8(0.25), 185/10(0.30), 165/12(0.32)	215/30, 150/40	C-40X	C-40X	C-40X	AL

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INSPIRED FISHING

C-40X Carbon Fibre Technology



Okuma's new **C-40X** long strand carbon fibre technology utilizes a specially blended graphite polymer. The carbon fibres in this material are elongated and reinforced, creating a substantially stronger composite than standard graphite material.

At 25% lighter, 1.5 times stronger and 100% anti-corrosive. **C-40X** translates into an extremely lightweight and durable construction.

Helios SX is made with **C-40X** long strand carbon fibre frame, sideplate and rotor for a stronger and lighter performance.



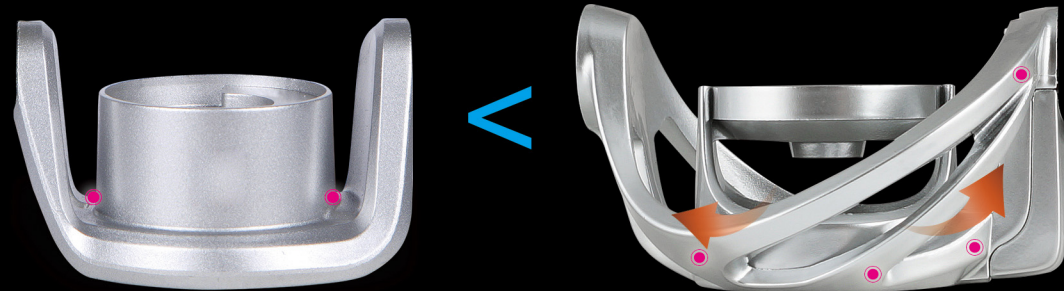
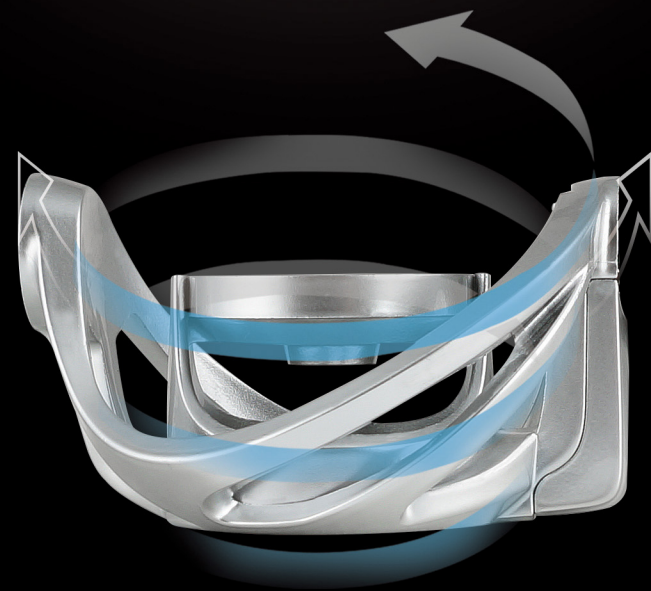
CFR (Cyclonic Flow Rotor)



Cyclonic Flow Rotor (CFR) was designed to create "cyclonic" airflow, which significantly increases air flow through the ported rotor.

This thoroughly tested design allows for a much faster drying time if the reel becomes wet, minimizing corrosion possibility through out the reel.

CFR also creates a lighter-weight and a more rigid rotor which reduces the flex and rotational coherence and creates a more precise mechanical operation.

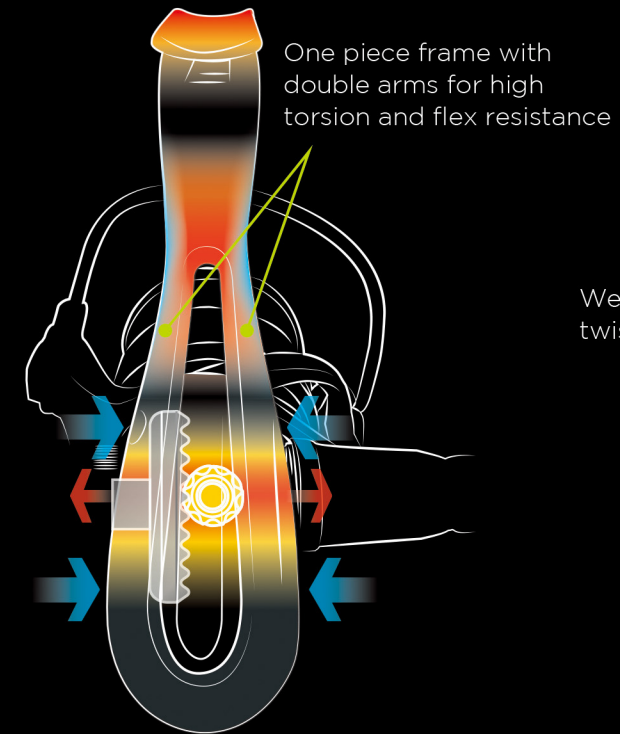


TCA (Torsion Control Armor)

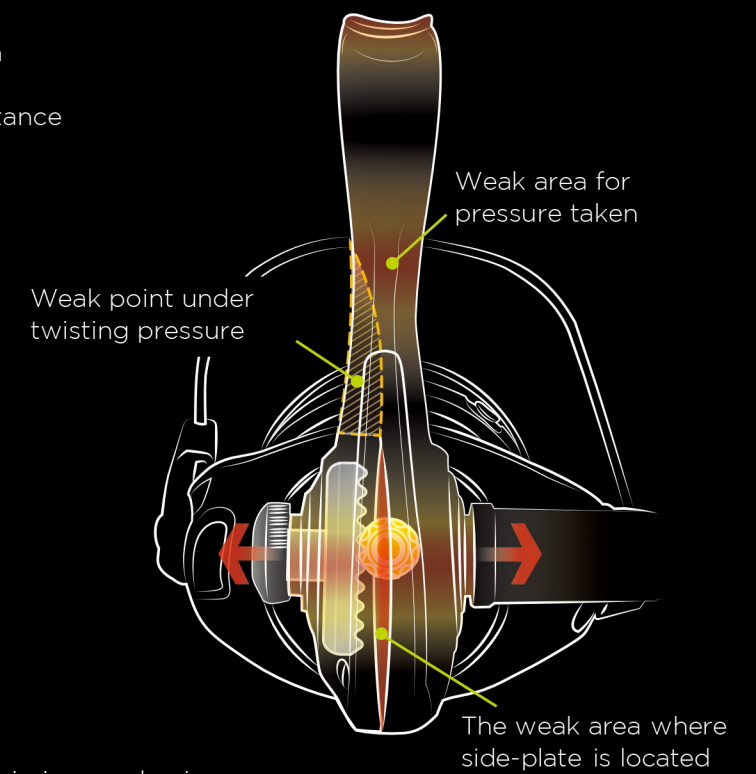
The one piece **Torsion Control Armor (TCA)** design made with Okuma long strand carbon fibre found on the new Helios SX spinning reel is made with a double arm design which offers high torsion and flex resistance under heavy pressure for static strength. This not only makes the reel lighter but also makes the reel extremely rigid which reduces twist and torque and keeps the internal parts in perfect alignment.

Pressure applies to the bodies under line retrieving

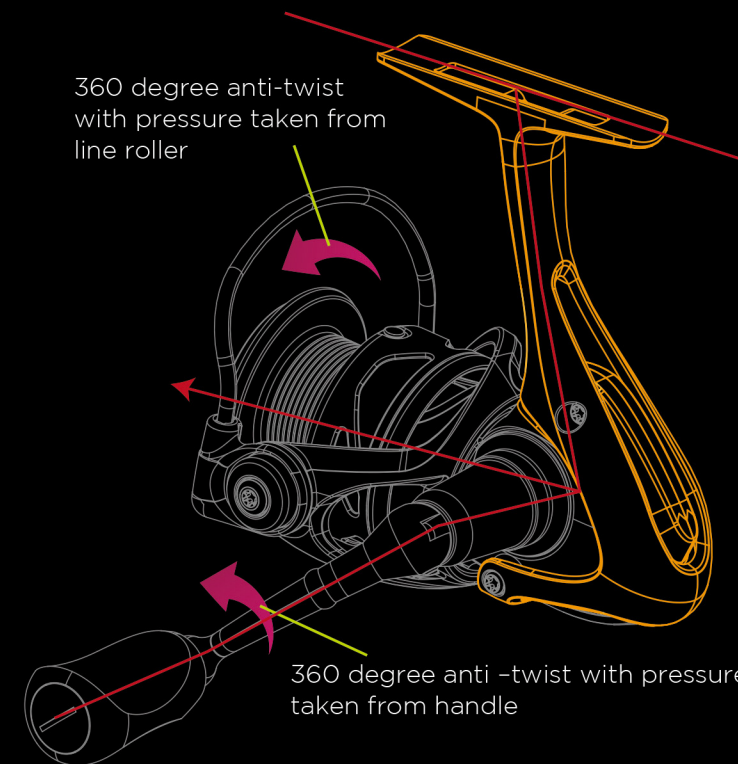
TCA: Torsion Control Armor with Double-Arm-Design



Traditional Body Design with Single Side Support



- ← Outward pushing pressure of Transmission mechanism
- The strength of one piece frame from Torsion Control Armor



TCA (Torsion Control Armor) against body twist and torque:

Torsion Control Armor (TCA), utilizing a double arm design creates a much higher performance when under pressure from both the line pulling through line roller and the line retrieval when turning the handle. The torsion resistance is 25% stronger than a traditional design.