

# Brunswick® Warp Zone® - Particle

## Part Number

60-103998-93X

## Coverstock

Particle Medium-Load  
Color: Sapphire Blue  
Hardness: 76-78  
Glow Engraving

## Factory Finish

400-grit wet sand

## Core Dynamics

RG Max: 2.600  
RG Int: 2.585  
RG Min: 2.553  
RG Diff: 0.047  
RG Asy: 0.015  
Average RG: 5.5

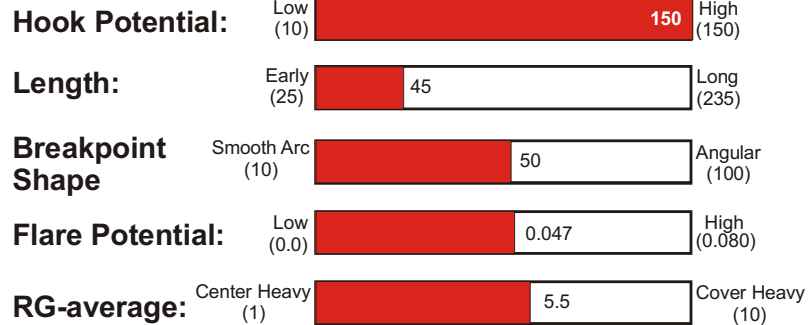
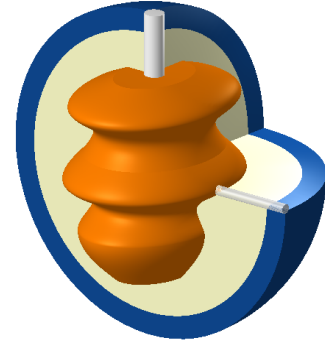
## Performance

Hook Potential: 150  
Length: 45  
Typical Breakpoint Shape: 50

## Available Weights

12-16 Pounds

# WARP ZONE



## Reaction Characteristics

**Warp Zone**, the second ball in the Zone-Asymmetric series expands on and complements the original Time Zone by using a medium-load particle coverstock over the Time Zone core. The medium-load particle coverstock increases traction in the oil and improves control on dry boards. This complementary ball reaction creates a better match up on heavy oil and over/under lane conditions. Bowlers with faster ball speeds and/or large amounts of axis tilt (low track, spinner release) will benefit from the **Warp Zones** increased traction in the oil.

When drilling the **Warp Zone**, placement of the Riser Pin and the PSA locator (relative to the bowler's axis) influences the amount of track flare created, contributing to the on lane ball reaction. The unique "ellipse" engraving\* around the riser pin on the **Warp Zone** allows the bowler to easily see the orientation of the core and the PSA when looking at their ball, making it easier to identify the choice of layout.

## Utility

- Out of the box:** The Warp Zone is an ideal heavy oil ball. The medium-load particle coverstock increases traction and hooking action in the oil, reducing skid and maximizing playability in heavy oil.
- When shined:** Using Brunswick's **Factory Finish High Gloss Polish** the total hooking action of the Warp Zone can be reduced and the arc made more skid/snap. Changing the surface finish in this way allows the Warp Zone to be used to smooth the over/under reactions seen with Reactive coverstock balls on wet/dry lane conditions.

## Reaction Setup

There are additional layout considerations for a ball with a significant Preferential Spin Axis (PSA) such as the **Warp Zone**. The distance from the riser pin still determines the overall strength of the layout the same way it does in symmetric core balls that have an insignificant PSA. In the **Warp Zone**, placement of the PSA locator relative to the riser pin and the bowler's axis can be used to modify the reaction created by a given riser pin position. See the attached sample layouts for the most popular drilling options.

**WARNING – Both the Warp Zone & Time Zone have a large amount of asymmetry designed into the core. Do not place the PSA locator pin on the negative side of the ball, you could hit every hole on the ball!**

The **Warp Zone** is finished with a dull 400-grit surface finish which increases its hooking action in the oil. Dull surface finishes can sometimes hook too early resulting in reduced backend reaction and hitting power. To increase length, polish the surface with Brunswick's **Factory Finish High Gloss Polish**.

\* The engraved ellipse is a drilling aid that marks the general orientation of the core inside the ball and is only approximately centered around the riser pin.