

## Specifications

Ball Construction  
Elliptical Single Density

Flare Potential  
High

Core Design  
Hyperactive Technology

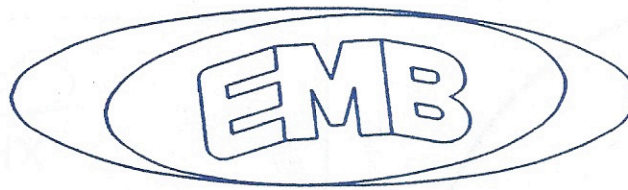
Coverstock  
ProTracktion Plus Pearl

Radius Of Gyration  
2.54

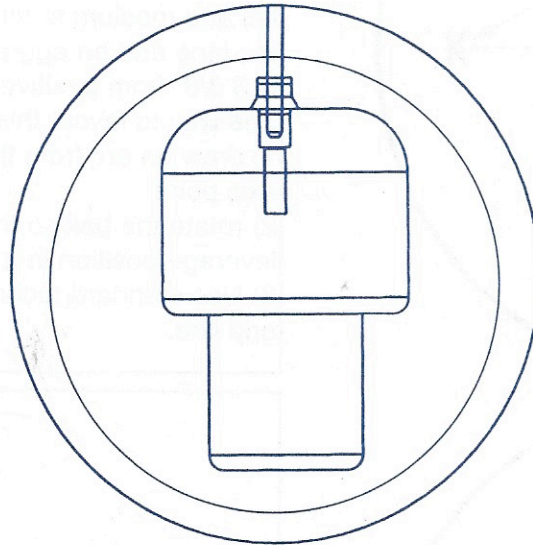
Differential  
.040

Finish  
Polished

Color  
Blue/Green Multicolor Pearl



### XF Pearl



## Elliptical Mass Bias Drill Sheet

## Description

The EMB Pearl XF is Tracks first single density elliptical shaped core. This particle ball is designed to clear the heads and deliver a sharp motion at the breakpoint and continue on the back ends. Please use the small EMB logo as a reference for all layouts.

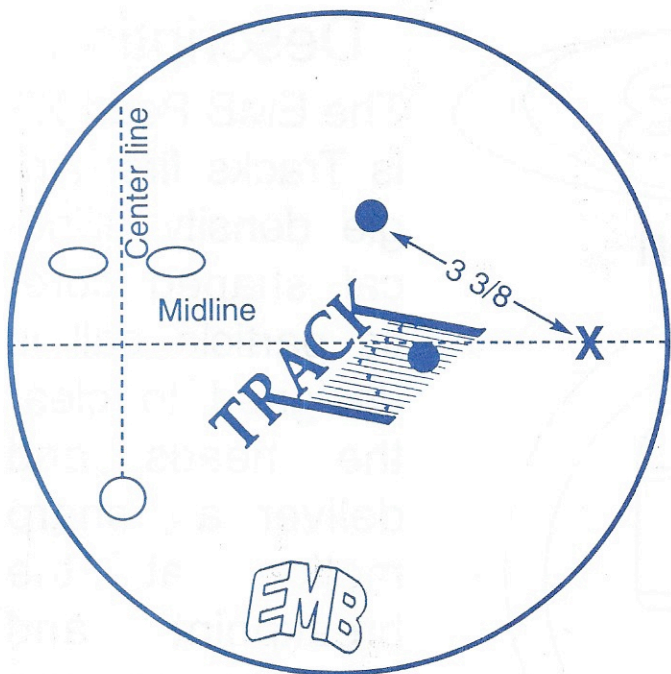
## THINGS TO REMEMBER

1. These are basic drillings and are recommended starting points. However, these balls can be drilled many different ways and could/should be fine tuned to meet the needs of each individual bowler. Do not hesitate to adjust the drill pattern to match the lane conditions and the bowler's personal characteristics such as ball speed, revolutions and axis rotation.
2. The illustrations of the drill patterns show the PIN, CG (center of gravity). We used a PAP of approximately 5 1/2 inches straight over for the purpose of illustrations.
3. Recognize that all illustrations shown are for right-handers. Reverse drill pattern for left-handers.
4. *Top Weight* - High top weight tends to make the ball skid further and store energy through the front end of the lane. We recommend high top weight for drier lanes or bowlers with below average ball speed, medium top weight for medium oil and medium ball speeds and low top weight for heavy oil or bowlers with above average ball speed.
5. *Extra Holes* - We recommend placing the hole on the positive axis point or one inch past most of the time. **Be Careful!** Please consider the strength of the bowlers release and the drill pattern being used before selecting the extra hole position more than one inch past the bowlers positive axis point.
6. *Static Side Weight* - We recommend that all balls be drilled with approximately 1/2 ounce side weight to start. If bowler wants to reduce back end reaction, gradually remove the positive side weight.
7. *Surface* - The surface of today's balls play an extremely important role in matching the bowler's needs with the lane conditions where they bowl. To create the best ball reaction, do not hesitate to adjust the surface by sanding or polishing. To add control and move the breakpoint closer to the bowler, increase the friction of the ball by sanding. To delay the breakpoint and increase the flip potential in the back end of the lane, reduce the friction of the ball by polishing.



Evolutionary. Revolutionary.™



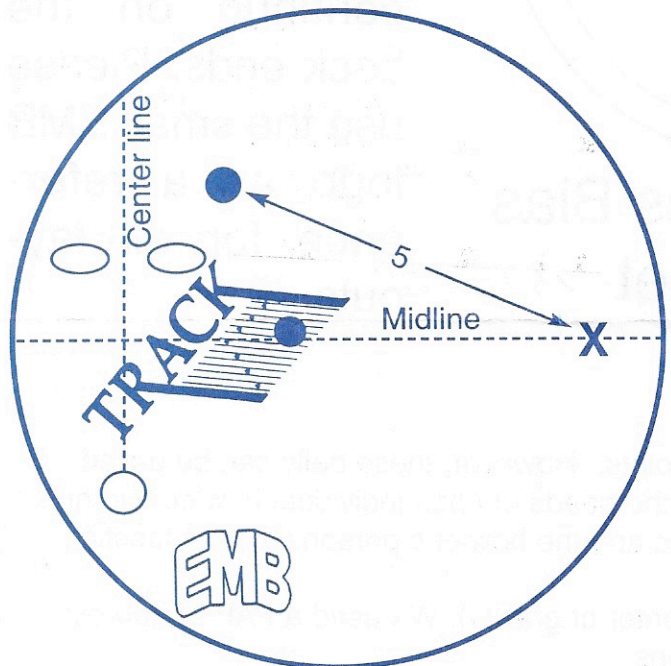


## XF Pearl Leverage Drilling

**Ball Reaction:** This pattern will generate high flare potential and medium to strong skid through the front part of the lane and an aggressive motion at the breakpoint. Pin is  $3 \frac{3}{8}$ " from positive axis point.

The way to layout this drilling is as follows:

- 1) draw an arc from the pin  $3 \frac{3}{8}$ " towards the positive axis point.
- 2) rotate the ball so the small EMB logo ends up in the leverage position in the positive quadrant of ball.
- 3) Use standard technique from PAP to locate center of grip line.

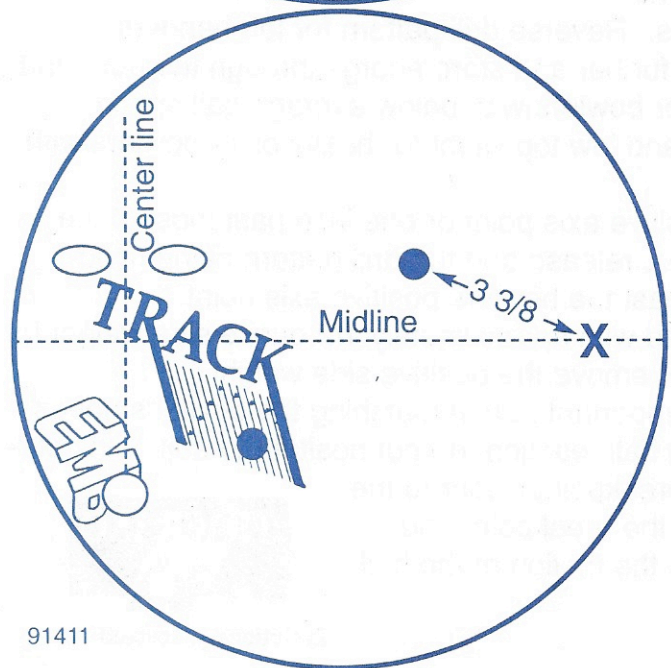


## XF Pearl Length Drilling

**Ball Reaction:** This pattern will create medium flare potential, give the most skid through the front part of the lane and a strong backend reaction. It will work better than other patterns when the lanes begin to break down. Pin is 5" from positive axis point.

The way to layout this drilling is as follows:

- 1) draw an arc from the pin 5" towards the positive axis point.
- 2) rotate the ball so the small EMB logo ends up in the length position in the positive quadrant of ball.
- 3) Use standard technique from PAP to locate center of grip line.



## XF Pearl Label Leverage Drilling

**Ball Reaction:** This pattern will generate high flare potential and create medium to strong skid through the front part of the lane. This layout works best on medium to dry conditions and an even, controllable reaction is desired. Pin is  $3 \frac{3}{8}$ " from positive axis point.

The way to layout this drilling is as follows:

- 1) draw an arc from the pin  $3 \frac{3}{8}$ " towards the positive axis point.
- 2) rotate the ball so the small EMB logo ends up on the centerline.
- 3) Use standard technique from PAP to locate center of grip line.