



Drilling clarifications for The One –

There have been questions regarding the layouts for drilling The One. We wanted to take the time to clarify some of these issues for you.

- 1) “I cannot drill Ebonite’s factory recommended layout #1 with a 0-1 or 1-2” pin”
Answer – Yes, you certainly can. With short pins, you are looking to remove the amount of static finger weight in order to be compliant with USBC regulations. We suggest that you drill your finger holes deeper than normal, deep enough to be compliant with USBC guidelines. Also, balance hole placement is important to consider when trying to have a ball comply with USBC static weight guidelines. You can position a balance hole to accomplish finger weight removal as well as side weight removal. It is important to note that the Centrex Symmetric Mass Bias Core was designed to be drilled into. You will not alter ball motion drastically by executing these suggestions.

Ball Reaction: Long and Strong
 Suitable for: Most Styles
 Flare Potential: Medium

Balance Hole: In illustration 2A – Place hole in the prescribed area in order to have the ball meet USBC specifications. You may need to drill deep with a large bit if the top weight was excessive.

Balance Hole: In illustration 2B – No Balance hole would be required.

Illustration 2A

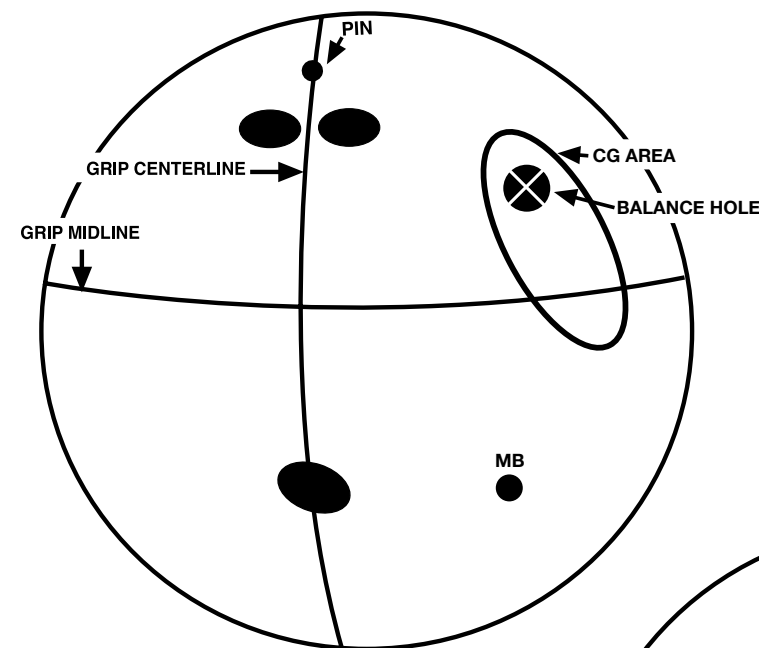
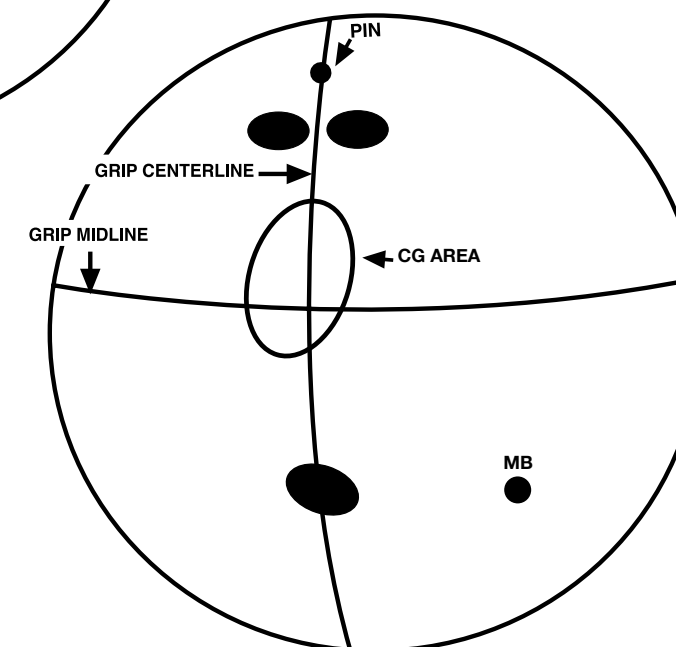


Illustration 2B



- 3) This X-Out that I received has the CG on the other side of the pin.
 This ball is undrillable!!!!
Answer – This ball is certainly drillable. Repeat step # 1, and place the weight hole (it may be a large one) in the location that will remove the necessary weight (Above finger for example). In this case, it is also suggested that you drill the finger holes deep as well.



THE ONE

Core Design:	Centrex Symmetrical Mass Bias		
Mass Bias Strength:	0.027		
Mass Bias Location:	6 3/4” from the pin		
Coverstock Name:	GB 10.7		
Color:	Purple/Teal/Navy Blue		
Box Finish:	Sanded with 4000 grit Abralon		
Length: (Ebonite scale of 1 to 50, earliest to latest)	25		
Overall Hook: (Ebonite scale of 1 to 50, least to most)	40.00		
Breakpoint Angle (Ebonite scale of 1 to 15, most smooth to most angular)	10.00		
RG Values:	16 2.51	15 2.46	14 2.49
Differential Values:	0.037	0.056	0.053

Drill instructions

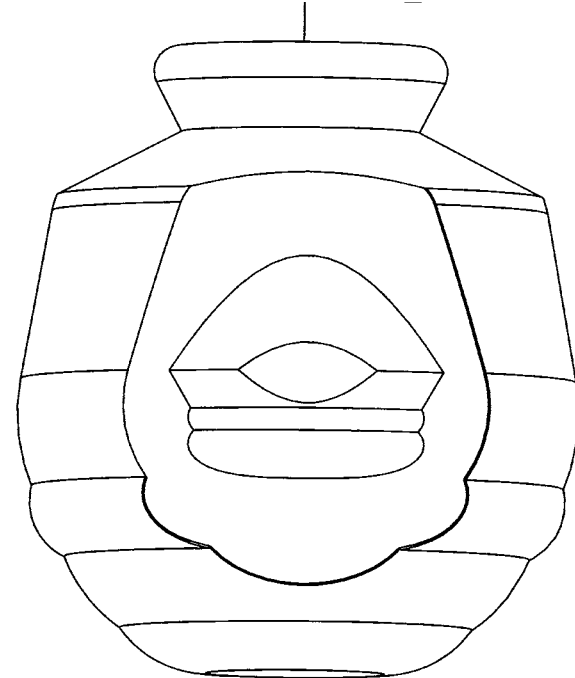
For

The ONE

The One has a Mass Bias Differential value of 0.027. This is the strongest Mass Bias Differential ball created to date. The Mass Bias is 6 3/4 inches from the pin and is marked with a small indicator pin and an Ebonite swoosh on the surface of the ball. Mass Bias degree placements are determined by the angle formed by a line drawn from the pin to the Mass Bias versus a line drawn from the pin to the Positive Axis Point. The placement of the Mass Bias is a secondary influence on determining ball motion. Pin Distance is the most important influence. Mass Bias placements and ball motions for The One are recommended as follows:

- | | |
|----------------------|--|
| 0 Degree Mass Bias | Very Smooth and Even Reaction |
| 45 Degree Mass Bias | Early Roll Ball Reaction |
| 75 Degree Mass Bias | Strong and Angular Ball Reaction |
| 90 Degree Mass Bias | Long and Smooth Ball Reaction |
| 135 Degree Mass Bias | Not Recommended Because of Very Little Flare Potential |

The Core

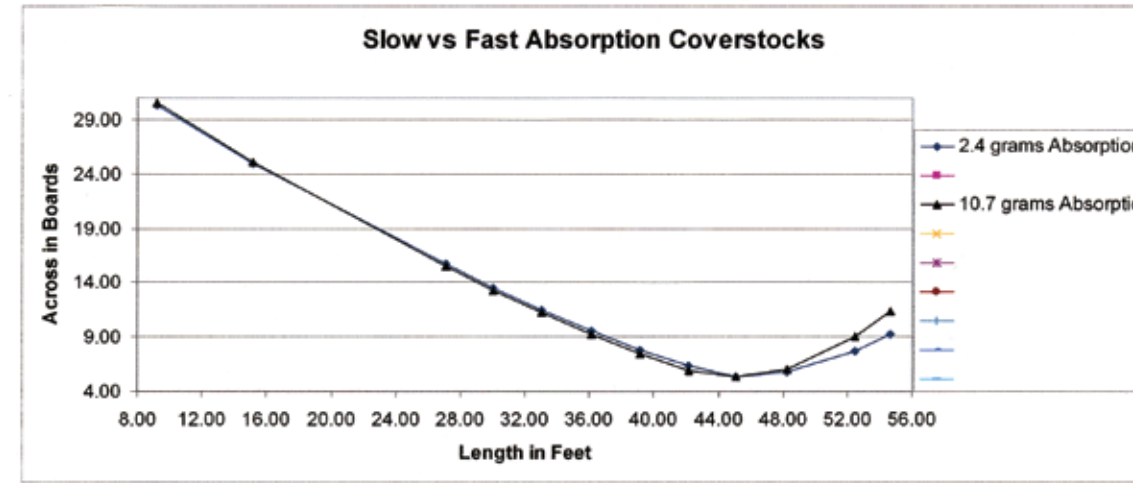


The Centrex Symmetrical core design is a Symmetrical Mass Bias Core. This allows the core to be more versatile, both in drilling and in ball motion prediction. This core shape can be tuned with weight holes. Note in order to see a performance difference in the Centrex core shape a minimum of a 31/32 drill bit at least 2 1/2 inches deep must be used. Smaller drill bits or shallower depths will not change the ball motion significantly.

The Coverstock

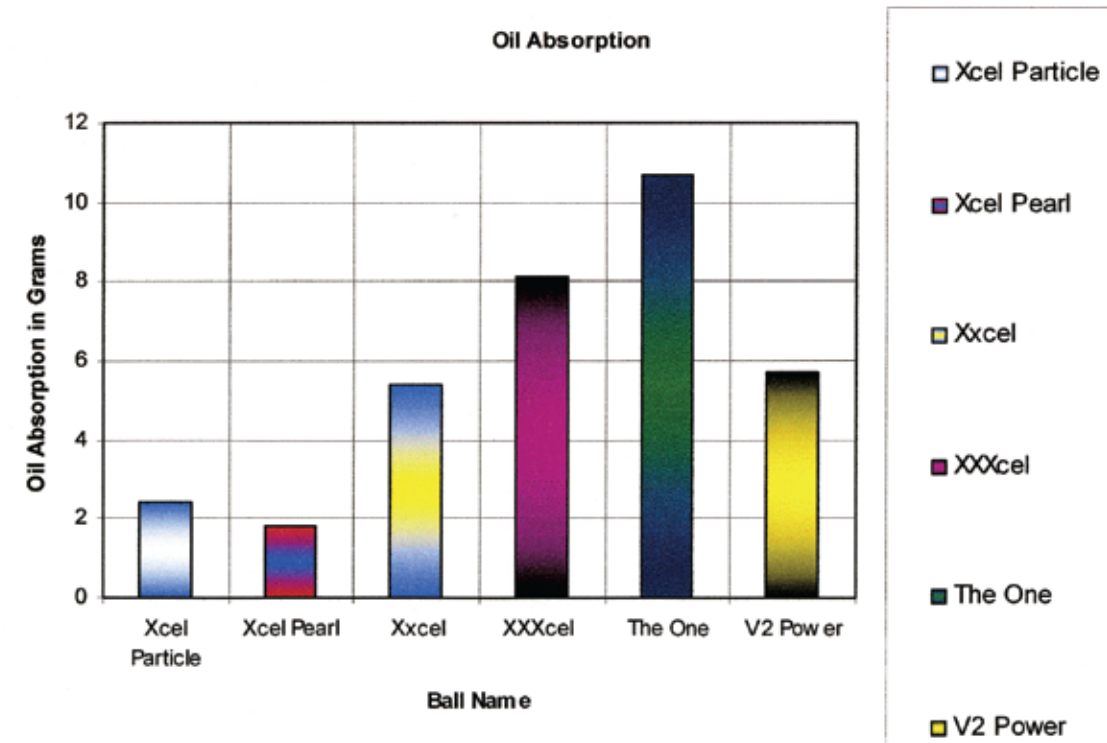
The GB 10.7 coverstock is a new coverstock for Ebonite. GB stands for Good Business the nickname that this coverstock received during our extensive testing. The number 10.7 stands for the amount of oil in grams this coverstock can absorb in 2 hours in a controlled laboratory testing environment. The coverstocks ability to absorb oil fast gives this ball a very aggressive backend motion. In the C.A.T.S. graph 1 you can see the difference between a 2.4 gram absorption rating and a 10.7 absorption rating. The GB 10.7 is much more angular and produces more total hook.

Graph 1.



Graph 2 shows the difference in absorption is several Ebonite Products.

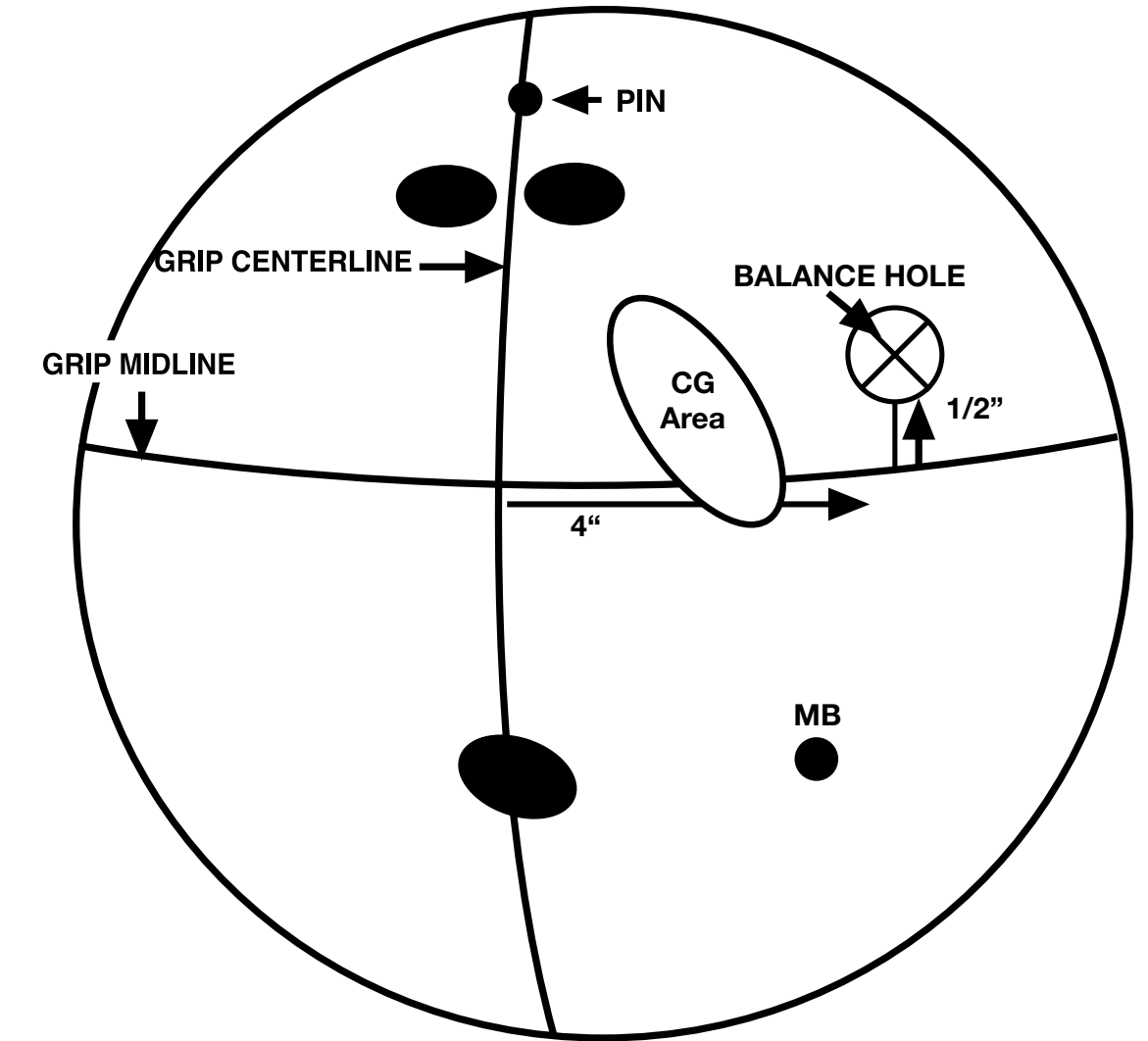
Graph 2



Please keep in mind that all bowlers have different needs. Do not be afraid to ask your pro shop operator to alter the surface of your ball if it does not match up perfectly.

Ball Care

The One has a high polish from the factory. The surface can be adjusted to fit the lane conditions that you bowl on. For surface adjustments we recommend that you use Ebonite Abralon pads. We highly recommend that you use Ebonite Power House Energizer Ball Cleaner along with a Power House Oil Free Towel to keep your ball performing to its peak ability. If your ball is losing hook potential please, discuss Hook Again with your Pro Shop Operator. **Drilling layouts 1 thru 5 are for right handed bowlers.**



This is the recommended layout for most players. Use mirror image for left handed drilling.

Drilling #1

If you do not have a positive axis point, use this layout.

Ball Reaction: Long and Strong

Suitable for: Most Styles and Lines

Flare potential: Medium

Center of Gravity: The center of gravity placement may or may not fall inside the CG Area. If it doesn't then the balance hole location may need to be adjusted.

Mass Bias Placement: Place Mass Bias 3 inches to the right of the thumb hole

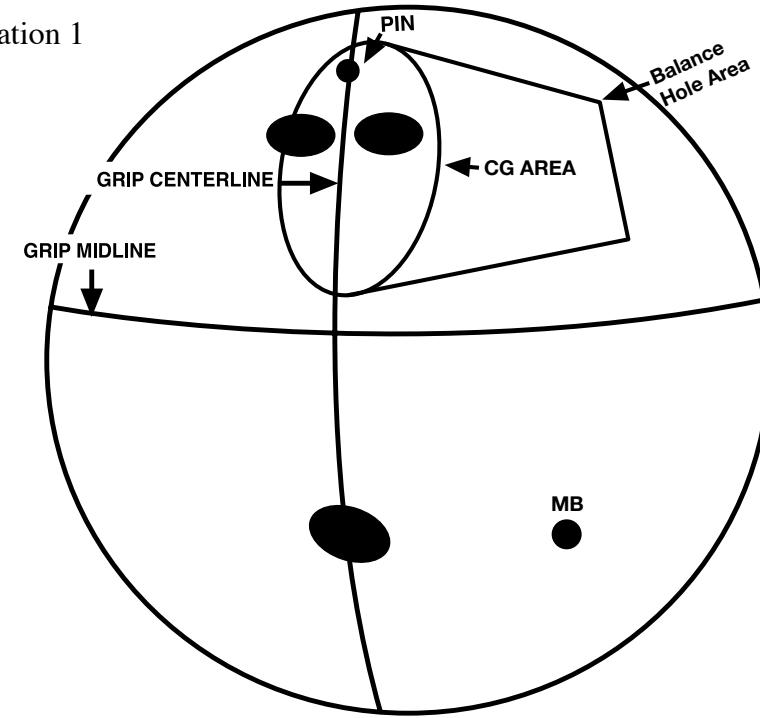
If needed place balance hole 4 inches over and 1/2 inch up and drill back to statically legal.

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Center of Gravity: As the CG area will fall close to the finger area, and perhaps above the fingers, drill fingers deeper than normal to remove the appropriate finger weight.

Balance Hole: A balance hole may be required in order to remove the necessary finger weight. Position the hole accordingly.

Illustration 1



2) I need to have the CG in line with the Pin and Mass Bias

Answer – No, that is not the case. Place the Pin and Mass Bias in the desired locations for the bowler. After drilling the ball, determine if a balance hole is required, and where you might like to place it. For example, if the CG is off line to the right (for a Right Hand Bowler) you may have to place a balance hole to the right along the Center line. We generally recommend that you place this hole over 4 inches and up 1/2 inch. The depth of the hole and size of the bit will be determined by the amount of weight you desire to remove. We will show 2 illustrations. 2A will be if the CG area is off to the right of center, and 2B will show the CG area off to the left. In the case of the CG off to the left, the CG will most likely end up in the grip area, thus, no balance hole required.

Ball Reaction: Long and Strong

Suitable for: Most Styles

Flare Potential: Medium

Center of Gravity: Not in Line with the Pin and Mass Bias.

Mass Bias Placement: Place Mass Bias 3 inches to the right of the thumb hole.

4) My One does not hook as much as expected!!!

Answer - The effects of sanding The One are extreme. As stated in The One seminar presentation, GB 10.7 is in fact, the strongest cover in bowling today. That is why we have been able to release a ball that has such a smooth surface (4000 Grit Abralon) with a High polish (Ebonite Powerhouse Factory Finish Ball Polish). By sanding The One, you can increase the overall hook by quite a bit. The following are ESTIMATED differences between the original factory finish (4000 Grit with Factory Finish Polish):

- a. 4000 Grit – No Polish – 2 Boards More Hook – 6 Inches earlier ball motion
 - b. 2000 Grit – No Polish – 4 Boards More Hook – 9 Inches earlier ball motion
 - c. 1000 Grit – No Polish – 6 Boards More Hook – 12 Inches earlier ball motion
 - d. 500 Grit – No Polish – 8 Boards More Hook – 15 Inches earlier ball motion
- DO NOT BE AFRAID to alter the surface!!!!***

5) My One ball does not perform as it did when it was new:

Answer: The One is shipped with a factory finish of 4000 Grit Abralon, and polished with Powerhouse Factory Finish Ball Polish. As the ball is used, the surface will be altered. Depending on what surface (Wood, Synthetic, the brand of Synthetic, Guardian, etc...) you are bowling on, the ball will start hooking earlier, thus the move to the pocket will be smoother. In order to make the reaction as it was new, you must finish your ball the same way as we do in the factory. Sand your ball with 500 Grit Abralon, 1000 Grit Abralon, 2000 Grit Abralon, 4000 Grit Abralon and shine your ball with Powerhouse factory finish. If you changed the surface at all, remember the steps that were applied so they can be repeated.

6) I MUST DRILL The One according to the Ebonite Drilling Instructions or my ball will not perform.

Answer – You ***CAN PLACE THE PIN IN OTHER AREAS.*** But you ***MUST PLACE THE MASS BIAS IN THE STRONG ZONE (35-70 DEGREES)*** for optimum performance. Placing the Mass Bias in a weaker location (0-30 and 75-105 degrees) will ***DRASTICALLY REDUCE BACKEND BALL REACTION!!!!*** If this is what your customer is looking for, by all means drill a ball this way. But ***GENERALLY SPEAKING***, most bowlers will be looking for a stronger backend ball motion vs. a weaker backend ball motion.

If you have any questions, please feel free to contact Ebonite International @ 1-800-626-8350 or email to RGJEBONITE@aol.com for e-mail technical support.



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This is the recommended layout for most players that have known axis measurements

Drilling #2

Ball Reaction: Long and Strong

Suitable for: Most Styles and Lines

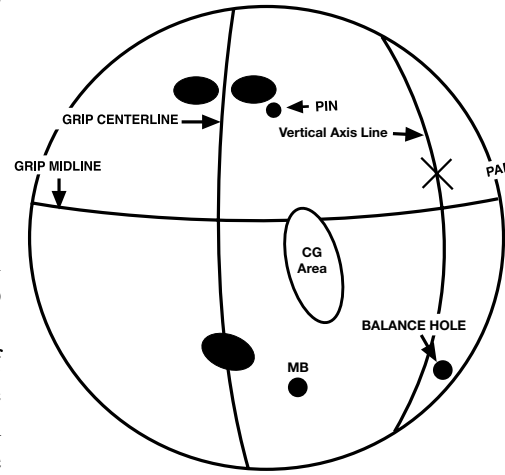
Flare potential: Large

Pin Placement: Place Pin 4 1/2 inches from PAP

Center of Gravity: The center of gravity placement may or may not fall inside the CG Area. If it doesn't then the balance hole location may need to be adjusted.

Mass Bias Placement: Place Mass Bias at a 45 degree angle to the right of the thumb hole. If needed place balance hole over on the Vertical Axis Line and 2 inches down and drill back to negative side weight. The bigger and deeper the hole is the more increased ball reaction. Remember to keep the ball statically legal.

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This is the recommended layout for most players that have known axis measurements. This layout produces the most even reaction with the highest total hook.

Drilling #3

Ball Reaction: Early and Strong

Suitable for: High Ball Speed, Low RPM's, Heavy oiled lanes

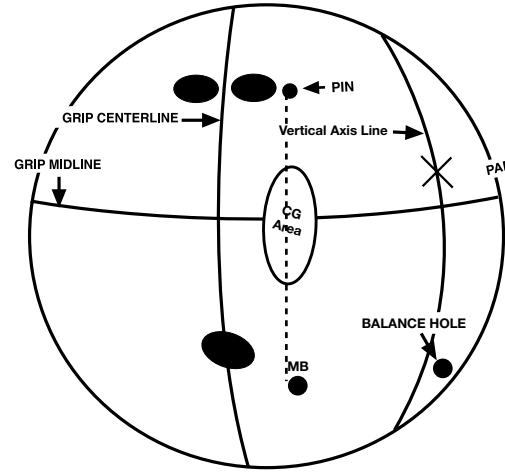
Flare potential: Very Large

Pin Placement: Place Pin 3 1/2 inches from PAP

Center of Gravity: The center of gravity placement may or may not fall inside the CG Area. If it doesn't then the balance hole location may need to be adjusted.

Mass Bias Placement: Place Mass Bias in line with the Pin. If needed place balance hole over on the PAP and drill back to statically legal.

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This is the recommended layout for All Full Rollers

Drilling #4

Ball Reaction: Strong Arc

Suitable for: Most Styles and Lines

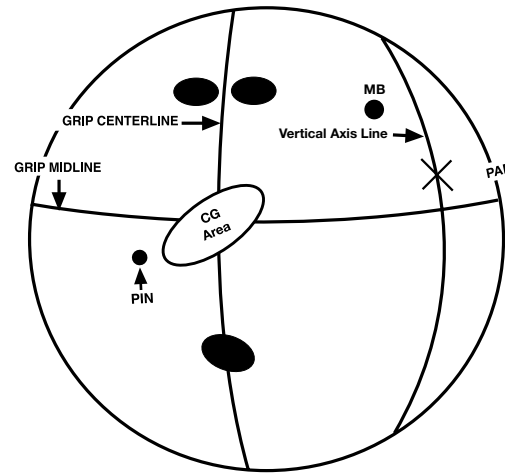
Flare potential: Large

Pin Placement: Place Pin 3 1/2 inches from bowlers center of span in an 8:00 direction.

Center of Gravity: The center of gravity placement may or may not fall inside the CG Area. If it doesn't then the balance hole location may need to be adjusted.

Mass Bias Placement: Place Mass Bias at a 2:00 direction from the center of span. If needed place balance hole 8 inches from the center of span in a 2:00 direction to remove excess positive side weight. Place balance hole 6 inches from the center of span in a 8:00 direction to remove excess negative side weight.

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This is a NON RECOMMENDED LAYOUT. This layout will produce a very mild ball reaction and is not recommended.

Drilling #5

Ball Reaction: Very mild

Suitable for: Extremely high rev rates

Flare potential: Very Small

Pin Placement: Not recommended with this layout

Mass Bias Placement: Mass Bias Placements to the left of the thumb hole are not recommended because of the severe reduction in flare potential.

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Drilling Clarifications for THE ONE on Back.



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