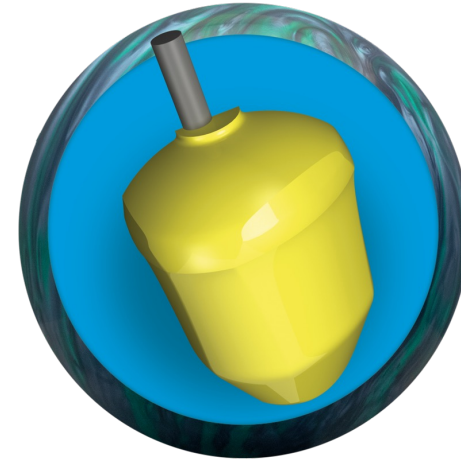




REVENGE



Drilling Angles shown are for 5" PAP – Adjust for other PAPs

## Revenge Pearl Drilling Chart

	Layout	Layout Specs	Low RG	Int Diff	Total Diff	Performance Differential	RG PAP
	Undrilled	-	2.544	0.000	0.036	0.00	
A	Maximum Flip	Pin Over 70° x 3-1/2" x 20°		0.012	0.043	0.28	2.504
B	Most Versatile	Pin Over 75° x 4" x 30°		0.011	0.040	0.27	2.509
C	Smoother Motion	Pin Over 80° x 4-1/2" x 40°		0.010	0.036	0.28	2.514
D	Smaller Hook	Pin Besides 90° x 2 1/4" x 45°		0.007	0.032	0.22	2.491

**Differential Ratio** relates to the reaction to friction, the higher the diff ratio the more responsive the ball will be to friction.

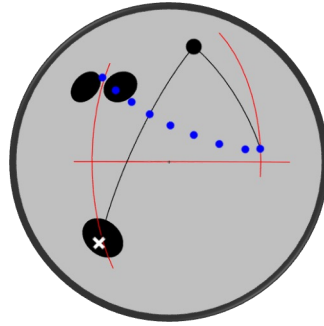
This chart uses a 5" horizontal axis co-ordinate. Adjust the drilling angle for other horizontal co-ordinates. Always use the pin to PAP distance and VAL angle to get the desire ball motion.

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## Suggested Layouts for Symmetric Cores

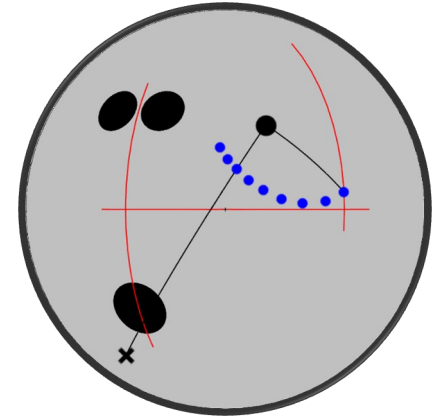
### A – Maximum Flip

*Pin Over*  
70° x 3½" x 20°



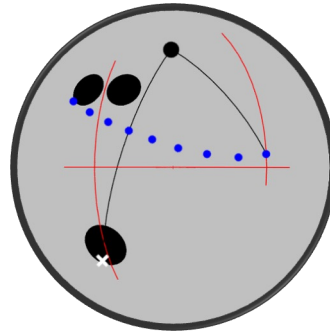
### D – Smaller Hook

*Pin Under*  
90° x 2¼" x 45°



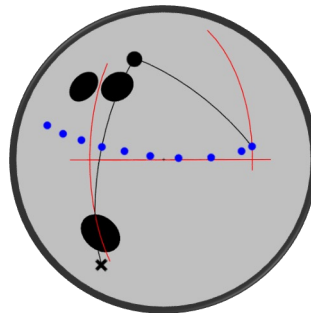
### B – Most Versatile

*Pin Over*  
75° x 4" x 30°



### C – Smoother Motion

*Pin Over*  
85° x 4-1/2" x 40°



The "X" on the diagrams indicates the Preferred Spin Axis (PSA / Mass Bias) of the drilled ball, and the line that connects the PSA and PIN after drilling is referred to as the "Pin to Spin Line". The important feature of the "Pin to Spin Line" is that the ball revs up when the migrating axis crosses this line so the sooner the migrating axis crosses the "Pin to Spin Line", the sooner the ball revs up.