RADICAL BOWLING TECHNOLOGIES®

ZING!

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

Zing! Drilling Chart

	Layout	Layout Specs	Low RG	Int Diff	Total Diff	Performance Differential	RG PAP
	Undrilled	-	2.499	0.020	0.051	0.055	
A	Maximum Flip	Pin Over 70° x 3 3/4" x 20°		0.030	0.057	0.065	2.517
B	All Purpose	Pin Over 45° x 4 1/4" x 35°		0.025	0.051	0.057	2.525
C	Smooth Hook	Pin Over 15° x 4 1/2" x 35°		0.014	0.045	0.047	2.533
D	Length with Control	Pin Under 75° x 5" x 80°		0.025	0.040	0.047	2.525
E	Total Control	Pin Over 90° x 2 1/4" x 45°		0.027	0.056	0.036	2.507
F	Maximum Flare	65° x 4" x 30° with balance hole		0.044	0.071	0.085	2.533

*Layout F - Maximum Flare utilizes a balance hole and is not USBC compliant as of August 1, 2020

“Performance Differential” is a term used to accurately describe the track flare of a ball. The TRUE amount of track flare of a drilled ball is related to both the intermediate and total differential of the drilled ball. The “Performance Differential” of the drilled ball measures the relationship between the intermediate and total differential to give an accurate measure of the amount of track flare in the drilled ball.

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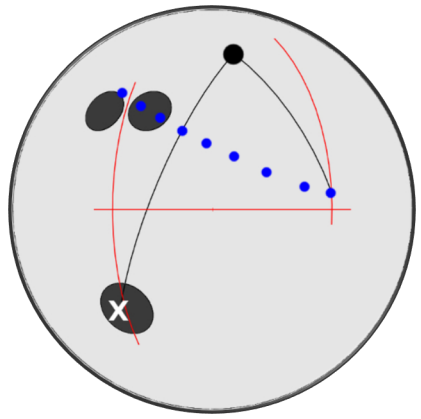
Suggested Layouts for Asymmetric Cores

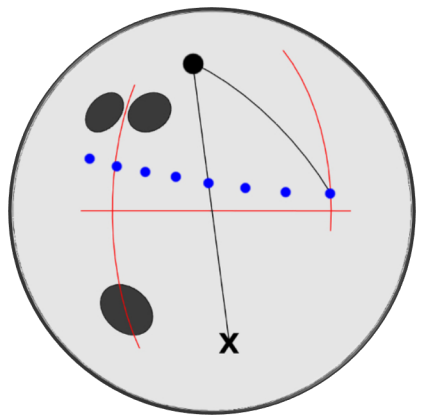
A – Maximum Flip

Pin Over
70° x 3 ¾” x 20°



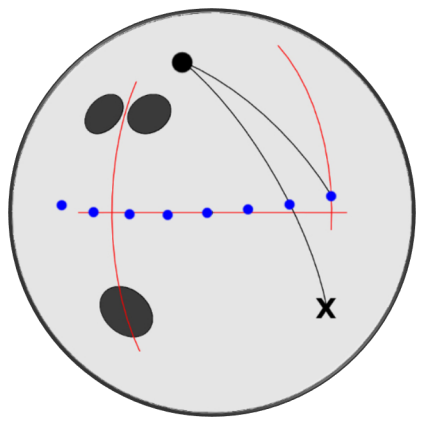
B – All Purpose

Pin Over
45° x 4 ¼” x 35°



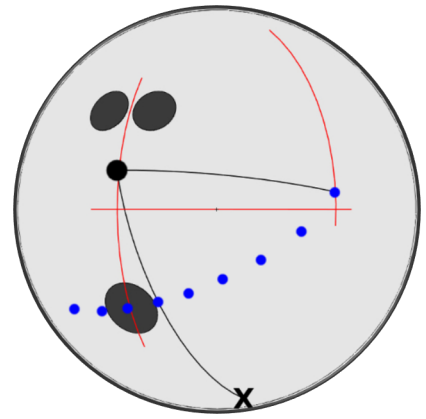
C – Smooth Hook

Pin Over
15° x 4 ½” x 35°



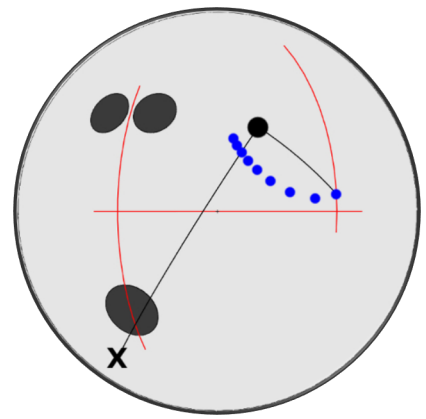
D – Length with Control

Pin Under
75° x 5” x 80°



E – Total Control

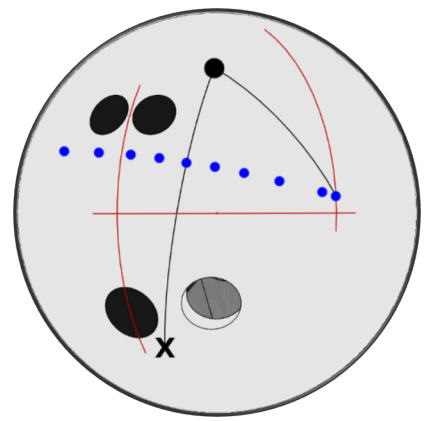
Pin Beside
90° x 2 ¼” x 45°



F – Maximum Flare

65° x 4” x 30°
with balance hole

****Not USBC Compliant***
as of August 1, 2020



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 rev up.