RADICAL
BOWLING TECHNOLOGIES®

Intel
RECON



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

Intel Recon Hybrid Drilling Chart

	Layout	Layout Specs	Low RG	Int Diff	Total Diff	Diff Ratio	RG PAP
	Undrilled	-	2.481	0.000	0.032	0.00	
A	Maximum Flip	Pin Over 70° x 3-1/2" x 20°		0.017	0.041	0.41	2.496
B	Most Versatile	Pin Over 75° x 4" x 30°		0.018	0.039	0.46	2.499
C	Smoother Motion	Pin Over 80° x 4-1/2" x 40°		0.018	0.035	0.51	2.502
D	Smaller Hook	Pin Besides 90° x 2 1/4" x 45°		0.013	0.026	0.50	2.488

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.

Differential Ratio, or diff. ratio, is an indicator of the level of asymmetry of the core. The differential ratio is equal to the quotient of the Intermediate Differential and the Total Differential. Balls with higher diff ratios have a higher degree of asymmetry.

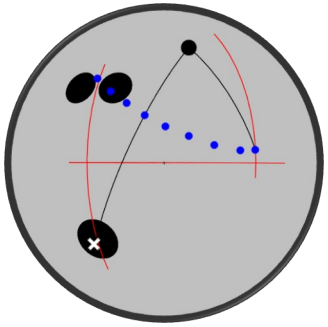
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Suggested Layouts for Symmetric Cores

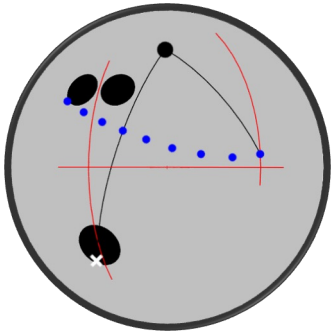
A – Maximum Flip

Pin Over
70° x 3½” x 20°



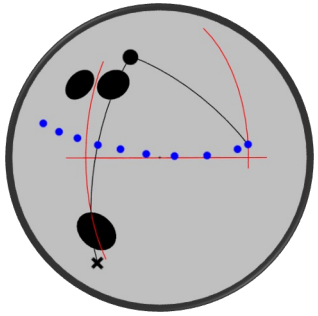
B – Most Versatile

Pin Over
75° x 4” x 30°



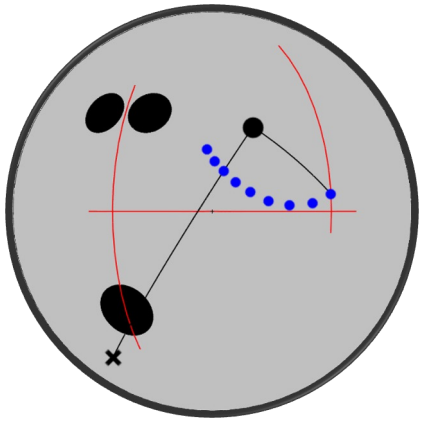
C – Smoother Motion

Pin Over
85° x 4-1/2” x 40°



D –Smaller Hook

Pin Under
90° x 2 ¼” x 45°



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.