



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

| Crypto Drilling Chart | | | | | | | |
|-----------------------|-----------------|--------------------------------|--------|----------|------------|-----------------------------|--------|
| | Layout | Layout Specs | Low RG | Int Diff | Total Diff | Performance Differential | RG PAP |
| | Undrilled | - | 2.481 | 0.000 | 0.046 | 0.046 | |
| Α | Maximum Flip | Pin Over 70° x 3-1/2" x 20° | | 0.011 | 0.054 | 0.055 | 2.504 |
| В | Most Versatile | Pin Over 75° x 4" x 30° | - | 0.010 | 0.050 | 0.051 | 2.509 |
| С | Smoother Motion | Pin Over 80° x 4-1/2" x 40° | | 0.008 | 0.044 | 0.045 | 2.514 |
| D | Smaller Hook | Pin Besides 90° x 2 1/4" x 45° | | 0.006 | 0.039 | 0.039 | 2.491 |
| | | | | | | | |

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

"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.

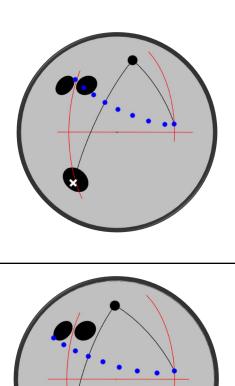
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Suggested Layouts for Symmetric Cores

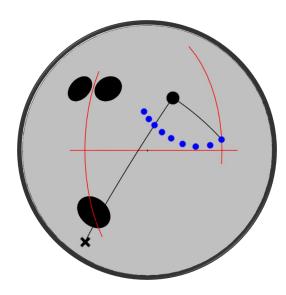


Pin Over 70° x 3½" x 20°



D – Smaller Hook

Pin Under 90° x 2 ¼" x 45°

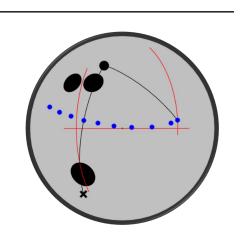


B – Most Versatile

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 rev up.