

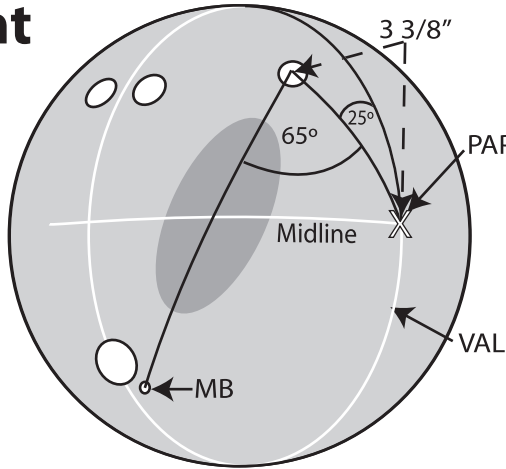
MO's Recommended Layouts for High Track Players

(with PAP more than 5 1/4" over)

Sharper Breakpoint

layout =

65° Drilling Angle X 3 3/8" Pin to PAP X 25° Angle to the VAL



Use for most players on most patterns

RipR Drilled Ball Specs				
Balance Hole	None	P1	P2	Double Thumb
Int Diff	0.023	0.016	0.026	0.036
Total Diff	0.050	0.045	0.053	0.061
Ratio	0.45	0.37	0.50	0.59
RG of PAP	2.559	2.576	2.573	2.567

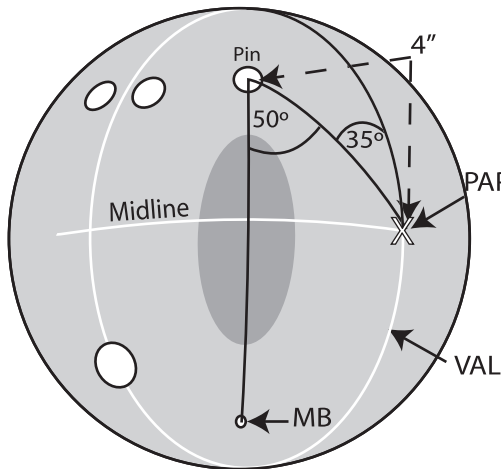
More Angular Breakpoint

Recommended Pin Distance 2-5.5"

Midlane

layout =

50° Drilling Angle X 4" Pin to PAP X 35° Angle to the VAL



Use for Speed Dominant Players and/or heavier oil volumes

RipR Drilled Ball Specs				
Balance Hole	None	P1	P2.5	P4
Int Diff	0.017	0.015	0.027	0.034
Total Diff	0.044	0.042	0.056	0.063
Ratio	0.40	0.36	0.48	0.54
RG of PAP	2.565	2.581	2.577	2.568

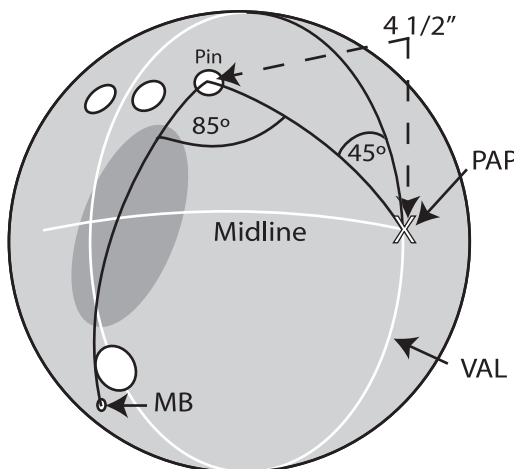
Heavy Forward Roll

Recommended Pin Distance 2-5.5"

Control

layout =

85° Drilling Angle X 4 1/2" Pin to PAP X 45° Angle to the VAL



Use for Rev Dominant Players and/or lighter oil volumes

RipR Drilled Ball Specs			
Balance Hole	None	P1	P2
Int Diff	0.023	0.008	0.025
Total Diff	0.040	0.037	0.048
Ratio	0.57	0.21	0.53
RG of PAP	2.566	2.583	2.578

Smooth Continuous Hook

Recommended Pin Distance 2-4"

*Note - Sample Diagrams use a PAP of 5 1/2" over by 0 ↓ Actual Layout may appear different depending upon the bowler's PAP

- Pin = The spot marking the top center of the core of the ball
- MB = The locator pin marking the position of the Mass Bias



The area on the surface of the ball in which the center of gravity (CG) mark should appear

X PAP (Positive Axis Point) =

The positive end of the bowler's axis of rotation at release

VAL (Vertical Axis Line) =

A Vertical line drawn through the bowler's PAP

Midline =

A horizontal line drawn midway between the thumb and finger holes