



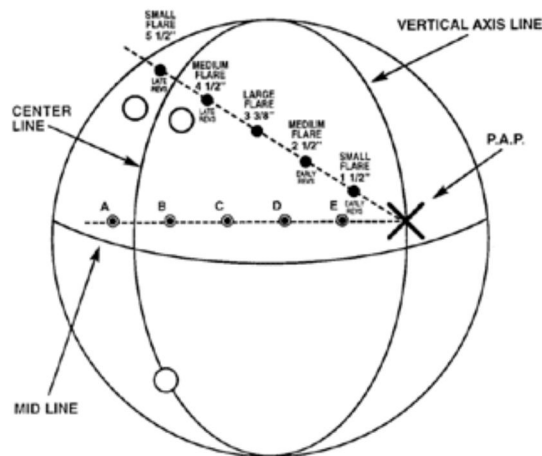
FABALL USA, LLC



SYMMETRICAL WEIGHT BLOCK DRILLING INSTRUCTIONS

BLUE HAMMER 2001	BLACK HAMMER 2001	REAPER	REAPER2	NASTY NAIL'S	NAIL'S
SPIKE/SPIKE HPT	BLUE HAMMER	BURG. HAMMER	CLAW'S		

MATCHING UP WITH HAMMER®



<i>ROLL POINT</i>	<i>PIN TO PAP</i>	<i>C.G.</i>	<i>FLARE</i>	<i>LANE CONDITION</i>
Late Roll	5 1/2" - 4 1/2"	A,B	Minimum	Dry
Medium Roll	3 3/8"	B,C,D	Maximum	Med. & Wet
Early Roll	2 1/2" - 1 1/2"	D,E	Minimum	Wet & Dry

BALANCE HOLE

When a balance hole is required, mark a line from the Center of Grip through the Center of Gravity and drill the balance hole on that line where it intersects the Vertical Axis Line. The balance hole may be drilled either above or below the Mid Line. When using a negative weight label shift (position "A" in the diagram), it is recommended to use only enough negative side weight so that a balance hole is not required.

SURFACE PREPARATION

Matching the surface texture of the ball to the lane condition for each individual's style is of paramount importance in achieving the desired ball reaction. To obtain more hook on oily lanes, sand the ball with 220, 320 or 400 grit wet/dry sandpaper. When even more length is required polish the ball with any high quality bowling ball polish. After polishing, if slight alterations in breakpoint length are required these can be easily achieved by lightly breaking the surface shine with various grades of scuff pads.

FULL ROLLER DRILLING INSTRUCTIONS

<p style="text-align: center;">STABLE DRILLING</p> <p>Utilize a ball with top weight of less than 3.0 ounces and a Pin to Center of Gravity distance between 1"-2". Draw a line connecting the Pin and the Center of Gravity and position this line in the ball's track, running in the same direction as the ball track. Position the Center of Gravity near the Grip Center. No balance hole should be required.</p>	<p style="text-align: center;">LEVERAGE DRILLING</p> <p>Utilize a ball with top weight of less than 3.0 ounces and a Pin to Center of Gravity distance between 3"-4". Draw a line connecting the Pin and the Center of Gravity. Position the Pin 3 3/8" from Grip Center and position the Center of Gravity near the Grip Center. The line connecting the pin and the Center of Gravity should be perpendicular to the ball track. No balance hole should be required.</p>

THINGS TO REMEMBER

1. All diagrams are for right handers. Reverse diagrams (mirror image) for left handers.
2. Position the PIN on or above a line drawn from the Positive Axis Point (P.A.P.) to the finger holes. This lessens the likelihood of the ball track flaring over the finger holes for high track players.
3. If a balance hole is placed to the right of the Vertical Axis Line, High rev players may contact the balance hole with their track flare. Positioning balance holes on the Vertical Axis Line is safe for most players.
4. Surface texture is extremely important in matching ball performance to lane conditions. Oily lanes usually require dull, rough ball surfaces, medium lanes smooth ball surfaces and dry lanes polished ball surfaces.
5. Expect high speed and/or spinner ball track players to generally require duller ball surfaces. Slow speed and/or low rev players generally require smooth and/or polished ball surfaces.
6. PIN locations near the bowler's Positive Axis Point promote an early roll with minimum track flare and minimum back end reaction.
7. PIN locations near the bowler's track promote a late roll with minimum track flare and minimum back end reaction.
8. PIN locations near half way between the bowler's Positive Axis Point and track promote medium roll, maximum

track flare and the sharpest reaction at the breakpoint.

9. Utilize PIN location to create the desired amount of track flare. Utilize ball surface to position the breakpoint in relation to the foul line and pin deck. Utilize side, finger, thumb and top or bottom weights to fine tune ball reaction.
10. Realize that low R.G. balls tend to roll earlier than high R.G. balls. High Differential balls tend to flare more than low Differential balls.