## THE <br> ART OF



AN ALTERNATIVEAPPROACH TO POOL BILLIARDS

PART 2: PRECISION STUN SHOTS FOLLOW \& DRAW ANGLES


## STACCATO NOTES

Remember staccato notes are the most basic notes there are. Each note should stand for themselves.

Also recall the three volumes: piano, mezzo and forte and what they feel like.

You played piano staccato from one diamond distance.

You played mezzo staccato from two diamonds distance.

You played forte staccato from three diamonds distance.

That's all you need to recall for this volume.


## STACCATO WITH ANGLES

In this volume we're going to play staccato with angles.
That's what people usually call stun shots.

And you guessed right, we're going to build a reference system.
Playing quarter, half, full, doubles and more.

But this time we're going to change the cue ball position in order to achieve the desired result.

## BALLS <br> BACK

I call this system the balls back (bb) system.

That's because we're defining the position of the cue ball in terms of balls back in relation to a straight shot.

And we're going to measure balls back always from one diamond distance.

Obviously, a straight in ball is zero balls back (0 bb).

A ball that touches the straight in line only with its outer edge is half a ball back ( $1 / 2 \mathrm{bb}$ ).

A ball that lies touching with 0 bb is 1 bb .

And so on (look at the picture).


## WHAT IT DOES

Why do I even use this system.
It is easy to visualize on the table.
You can easily estimate one or two balls back with the help of your cue stick.

It does interesting things. When played with level cue, center ball and piano volume:

- $1 / 2$ bb plays a quarter note.
- 1 bb plays a half note.
- 1,5 bb plays a full note.
- 2 bb plays a double.
- 2,5 bb plays a triple.
- 3 bb plays a quad(ruple).

Know this and you never have to blindly guess your stun shot lengths again.


## QUADRUPLE?!

Remember, the lengths out of the cushion are cut in halves.

So a when a full note reaches the cushion from center table:

- A double travels only 2D out instead of half a table.
- A triple travels only 4D out instead of a full table.
- A quad travels only 6D out instead of one and a half tables.


## For smartasses:

Yes, that depends on the speed of the cushion. Even the cloth. Some fast cushions or cloths swallow a bit less, so the shots come up long. I guess we can live with that


## AT MEZZO VOLUME

The system also works at mezzo volume. But of course, the balls back are less. But how much less?

We simply slide up one half step!
And $1 / 2$ bb becomes $1 / 4 \mathrm{bb}$.
So when played with level cue, center ball and mezzo volume:

- $1 / 4 \mathrm{bb}$ plays a quarter note.
- $1 / 2$ bb plays a half note.
- 1 bb plays a full note.
- 1,5 bb plays a double.
- 2 bb plays a triple.
- 2,5 bb plays a quad.

Memorize:
$1 / 2$ bb plays a half note at mezzo volume. All mean.


## AT FORTE VOLUME

Things get even more crowded at forte volume.

So when played with level cue, center ball and forte volume:

- $1 / 8 \mathrm{bb}$ plays a quarter note.
- $1 / 4 \mathrm{bb}$ plays a half note.
- $1 / 2$ bb plays a full note.
- 1 bb plays a double.
- 1,5 bb plays a triple.
- 2 bb plays a quad.

Okaie, $1 / 8,1 / 4$ and $1 / 2$ are quite a bit more difficult to judge and the shot needs to be clean.

But show me any other system that gives you a better estimate of how far the cue ball will travel at such high volumes!


## IN REALITY THINGS ARE DIFFERENT



## IN REALITY

You will maybe find yourself half a ball back.

So you do the thing in reverse.
So from half a ball back:

- Piano plays a quarter note.
- Mezzo plays a half note.
- Forte plays a full note.
- Fortissimo plays a double.
- Forte-Fortissimo plays a triple.
- Only madness plays a quad.

This gives you an impression on how far can you get at all.

It also tells you at which distance you can expect a reasonably precise cue ball placement. Not much precision beyond a full note.


## OR MAYBE

You will maybe find yourself one ball back.

That makes some things easier.
So from one ball back:

- Pianissimo plays a quarter note.
- Piano plays a half note.
- Mezzo plays a full note.
- Forte plays a double.
- Fortissimo plays a triple.
- Forte-Fortissimo plays a quad.

The triple is very available from one ball back, even the quad..

It also tells you at which distance you can expect a reasonably precise cue ball placement. Not much precision between double and triple.


## EVEN FURTHER BACK

1,5 balls back things start to get trickier again.

From 1,5 balls back:

- Babying it plays a quarter note (can you even pot it?)
- Pianissimo plays a half note.
- Piano plays a full note.
- Mezzo plays a double.
- Forte produces a triple.
- Fortissimo produces a quad.



## YOU GET THE IDEA



## REMEMBER

## Half a ball back

## plays half a note

at mezzo speed.

## SWING LOW

But what if I need a different cue ball path, for example draw the cue ball back half a diamond at the short rail?

Even then, the system can be used!
The trick: Half a tip low makes the ball come up one step short.

So from one ball back with half a tip low:
-Piano plays a quarter note. - Mezzo plays a half note.
-Forte plays a full note.
-Fortissimo plays a double. -Forte-Fortissimo plays a triple. - Only madness plays a quad.

Note the angle widens a bit out from the cushion because of the cut induced spin.


## YES.

Playing one tip low plays even
two lengths short.
Playing half a tip high plays one length long.

So you have to remember the scale of note lengths:

- Eighth
- Quarter
- Half
- Full
- Double
- Triple
- Quad

With half a tip high or low you move up or down one step on the scale.

Accidental low is
bad on these shots.
A level cue with dead center ball rule.

## HIGHS AND LOWS

Forget about volumes and notes for a moment.

Is there a predictable system to estimate where the cue ball will end up on the small cushion when you apply high or low?
Yes, there is!
On a mezzo staccato note:

- Half a tip high follows 1D on half a table.
- One tip high follows 2D on half a table.
- One tip low bends back 1D on half a table.
- Two tips low bend back 2D on half a table

So following only needs half of drawing.
Those need to be at least mezzo speed staccato shots (not full blown draw shots.)


## QUALITY <br> DRAWS

So let's talk about real draws and follows for a bit.

From a good quality maximum draw shot (piano volume) you can expect to get three times the angle of the angle you go into the ball.

So if you like in this example have half a diamond angle in, a good quality draw will reach 1,5 diamonds on the opposite cushion.

Remember you need only a piano half note to reach the cushion even when straight in.

It is worth practicing this particular good quality draw shot and remember what it feels like.


## QUALITY <br> FOLLOWS

And you probably guessed it:
Good quality maximum follows do just the same.

Played at piano speed max.
If you play them any louder, they will travel along the tangent path for way too long to reach that position.

Good quality draws or follows only travel the bare minimum along the tangent, unless you intentionally force them to.


## ENOUGH FOR PART II

dana@danastoll.com

