

***Welcome to the 6 lane center in the
Brunswick facility in Muskegon,
Michigan.***

***Today, we will be discussing and
demonstrating the biggest
innovation in bowling ball design in
2 decades.***

**THE
FIX**

by

RADICAL
BOWLING TECHNOLOGIES®

KINETIC
ENERGY
CHANGES
ONLY IF
VELOCITY
CHANGES.



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***To submit
questions during
this live
presentation, type
your questions in
the comments box
and click it.***



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Radical Product Debut

October 2016

THE FIX



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THE FIX



- New Technology
- New Performance
- More Drilling Features

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The What.....

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What makes The FIX so different...

- **Shapeshifter Core**

- Can be **Symmetrical** or **Asymmetrical**
- You choose the desired drilled ball specs.
- Desired performance for every bowler .



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It's actually quite simple.

*Drilled pin up,
it's asymmetrical!*

*Drilled pin down,
it's symmetrical!*



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The Why.....

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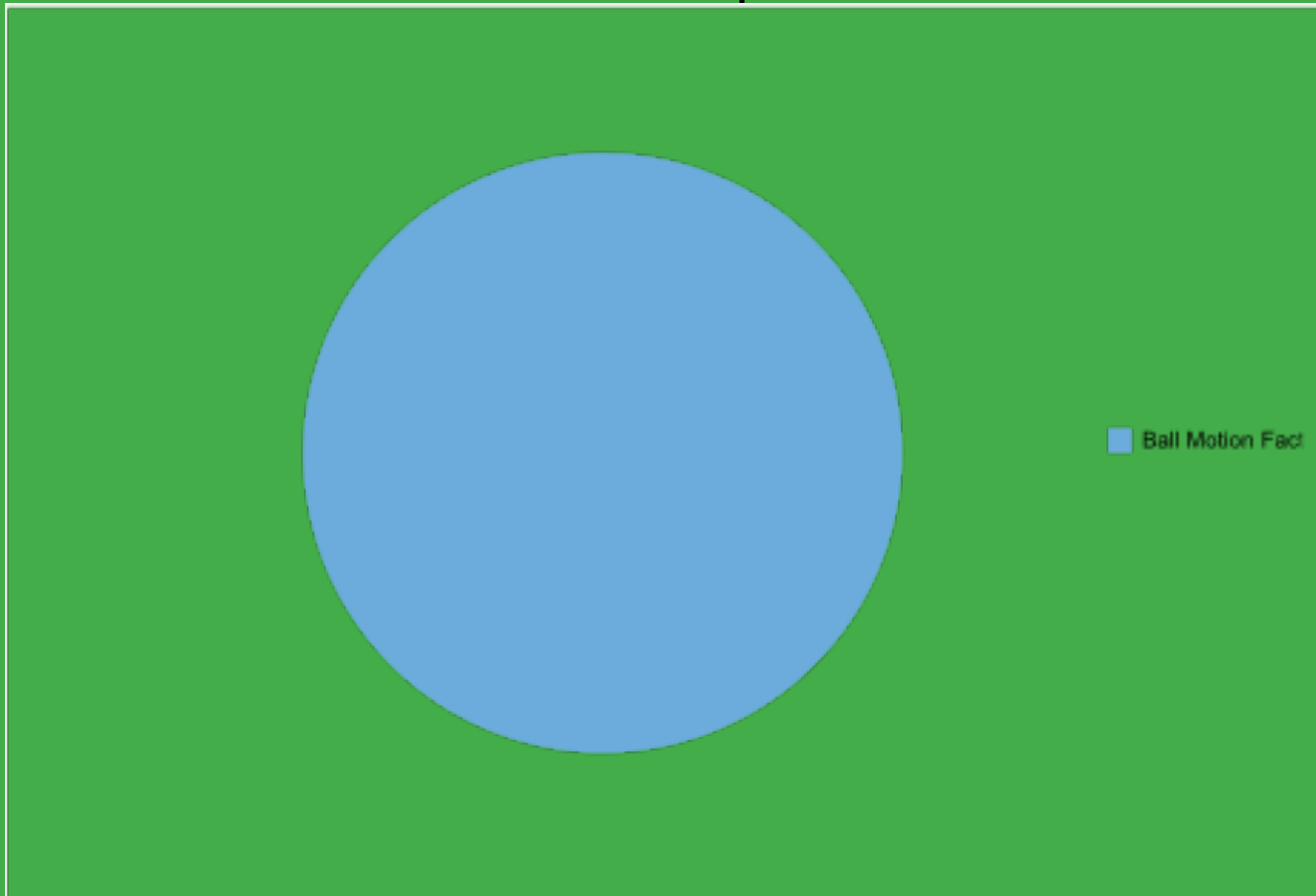
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Why The *FLX* is so different....



- **Core Shape determines ball motion!!!**
- Specs for the drilled ball are what matters
- Here's how the core components influence ball motion.....



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The How.....

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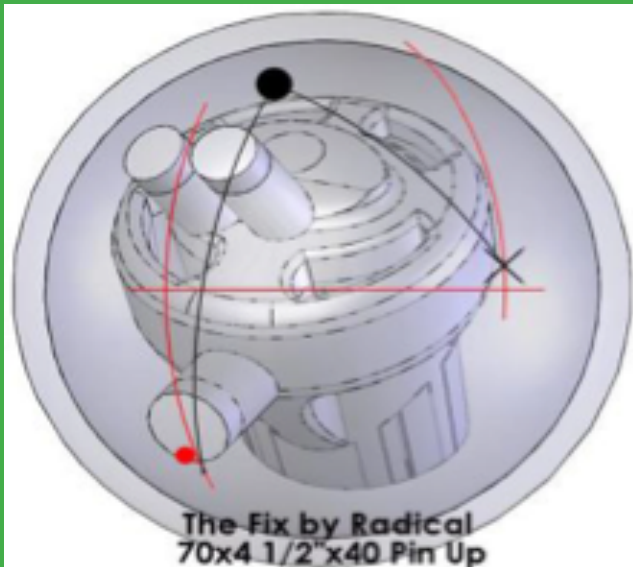


How it works.....



- **Asymmetric Drillings**

- Place pin **above** the fingers so the finger holes are drilled into the scoop area of the core and thumb is drilled into the slotted band.
- By drilling the fingers into scoop and the thumb into the slotted band, you make the drilled core **taller and thinner**.
- The total differential and the **intermediate differential increase ($>.019''$)** making **THE FIX** a strong asymmetric ball resulting in aggressive breakpoint.



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How it works.....



- **Symmetric Drillings**

- Place pin **below** the fingers so both the thumb and fingers are drilled into the top of the slotted band of the core. By drilling the gripping holes into the top of the slotted band, you make the drilled core **shorter**.
- Total differential decreases and the **intermediate differential remains low (<.016")** maintaining symmetric core specifications.



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How it works.....



- **Asymmetric Drillings**

- Provide drilled ball specs with lower RG, **larger intermediate differential**, and greater total differential
- Produce stronger, sharper, and quicker response to friction

- **Symmetric Drillings**

- Provide drilled ball specs with higher RG, **smaller intermediate differential**, and lower total differential
- Produce milder, smoother, and slower response to friction

**Asymmetric Drillings
will Open Up the Lane.**

**Symmetric Drillings
are Smooth and Controllable.**



2 Different Ball Motions

ROLL PHASE

HOOK PHASE

SKID PHASE

Asymmetrical
Ball Motion

Symmetrical
Ball Motion

How it works.....



- Radical provides the best drill sheets on the planet.
- **THE FIX** offers Asymmetric and Symmetric layout options.

The Fix - Asymmetric Layouts						
	Layout Specs	LowRG	Int Diff	Total Diff	Diff Ratio	RG PAP
	Undrilled	2.511	0.007	0.054	0.13	
A	Pin Up 65 x 5 1/4" x 40 (CG 1/2"+)		0.020	0.055	0.36	2.552
B	Pin Up 70 x 4 1/2" x 40 (CG 1/2"+)		0.021	0.057	0.37	2.546
C	Pin Up 85 x 3 3/4" x 30 (CG 1/2"+)		0.022	0.060	0.37	2.542
D	Pin Up 85 x 3 3/4" x 30 (CG 1/2"+) Motion Hole		0.032	0.066	0.48	2.550
E	Pin Up 85 x 3 3/4" x 30 (CG 1/2"+) Double Thumb Balance Hole		0.028	0.072	0.39	2.528
F	Pin Up 65 x 3 3/4" x 30 (CG 1/2"+) Balance Hole on VAL 1 1/2" below PAP		0.023	0.064	0.36	2.538

The Fix - Symmetric Layouts						
	Layout Specs	LowRG	Int Diff	Total Diff	Diff Ratio	RG PAP
	Undrilled	2.511	0.007	0.054	0.13	
A	Pin Down 75 x 5 1/4" x 80 (CG 1/2"+)		0.011	0.044	0.25	2.563
B	Pin Down 85 x 4 1/2" x 80 (CG 1/2"+)		0.012	0.045	0.27	2.561
C	Pin Down 95 x 3 3/4" x 80 (CG 1/2"+)		0.013	0.046	0.28	2.559
D	Pin Down 80 x 3 3/4" x 80 (CG 1 1/2"+) Balance Hole on VAL 1 1/2" below PAP		0.015	0.048	0.31	2.556
E	Pin Down 35 x 5 1/2" x 75 (CG 1 1/4"+) Balance Hole at PAP		0.008	0.043	0.19	2.565
F	Pin Down 90 x 2 1/4" x 50 (CG 1 1/4"+) Balance Hole at PAP		0.006	0.039	0.15	2.554

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Asymmetric Layouts



The Fix - Asymmetric Layouts

	Layout Specs	LowRG	Int Diff	Total Diff	Diff Ratio	RG PAP
	Undrilled	2.511	0.007	0.054	0.13	
A	Pin Up 65 x 5 1/4" x 40 (CG 1/2"+)		0.020	0.055	0.36	2.552
B	Pin Up 70 x 4 1/2" x 40 (CG 1/2"+)		0.021	0.057	0.37	2.546
C	Pin Up 85 x 3 3/4" x 30 (CG 1/2"+)		0.022	0.060	0.37	2.542
D	Pin Up 85 x 3 3/4" x 30 (CG 1/2"+) Motion Hole		0.032	0.066	0.48	2.550
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Symmetric Layouts



The Fix - Symmetric Layouts

	Layout Specs Undrilled	Low RG 2.511	Int Diff 0.007	Total Diff 0.054	Diff Ratio 0.13	RG PAP
A	Pin Down 75 x 5 1/4" x 80 (CG 1/2"+)		0.011	0.044	0.25	2.563
B	Pin Down 85 x 4 1/2" x 80 (CG 1/2"+)		0.012	0.045	0.27	2.561
C	Pin Down 95 x 3 3/4" x 80 (CG 1/2"+)		0.013	0.046	0.28	2.559
D	Pin Down 80 x 3 3/4" x 80 (CG 1 1/2"+) Balance Hole on VAL 1 1/2" below PAP		0.015	0.048	0.31	2.556
E	Pin Down 35 x 5 1/2" x 75 (CG 1 1/4"+) Balance Hole at PAP		0.008	0.043	0.19	2.565
F	Pin Down 90 x 2 1/4" x 50 (CG 1 1/4"+) Balance Hole at PAP		0.006	0.039	0.15	2.554

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by **RADICAL**

Layout Worksheet

The Fix - Asymmetric Layouts			The Fix - Symmetric Layouts		
Layout Specs		Int. Diff.	Int. Diff.	Layout Specs	
Larger intermediate differentials indicate sharper breakpoints.					
	Undrilled	0.007	0.007	Undrilled	
A	Pin Up 65 x 5 1/4" x 48 (CG 1/2")	0.020	0.011	Pin Down 75 x 5 1/4" x 80 (CG 1/2")	A
B	Pin Up 70 x 4 1/2" x 48 (CG 1/2")	0.021	0.012	Pin Down 85 x 4 1/2" x 80 (CG 1/2")	B
C	Pin Up 85 x 3 3/4" x 38 (CG 1/2")	0.022	0.013	Pin Down 95 x 3 3/4" x 80 (CG 1/2")	C
D	Pin Up 85 x 3 3/4" x 38 (CG 1/2") Motion Hole	0.032	0.015	Pin Down 80 x 3 3/4" x 80 (CG 1 1/2") Balance Hole on VAL 1 1/2" below PAP	D
E	Pin Up 85 x 3 3/4" x 38 (CG 1/2") Double Thumb Balance Hole	0.028	0.008	Pin Down 35 x 5 1/2" x 75 (CG 1 1/4") Balance Hole at PAP	E
F	Pin Up 85 x 3 3/4" x 38 (CG 1 1/2") Balance Hole on VAL 1 1/2" below PAP	0.023	0.006	Pin Down 90 x 2 1/4" x 50 (CG 1 1/4") Balance Hole at PAP	F

The Fix - Asymmetric Layouts			The Fix - Symmetric Layouts		
Layout Specs		Total Diff.	Total Diff.	Layout Specs	
Larger total differentials indicate more flare leading to more overall hook.					
	Undrilled	0.054	0.054	Undrilled	
A	Pin Up 65 x 5 1/4" x 48 (CG 1/2")	0.055	0.044	Pin Down 75 x 5 1/4" x 80 (CG 1/2")	A
B	Pin Up 70 x 4 1/2" x 48 (CG 1/2")	0.057	0.045	Pin Down 85 x 4 1/2" x 80 (CG 1/2")	B
C	Pin Up 85 x 3 3/4" x 38 (CG 1/2")	0.060	0.046	Pin Down 95 x 3 3/4" x 80 (CG 1/2")	C
D	Pin Up 85 x 3 3/4" x 38 (CG 1/2") Motion Hole	0.066	0.048	Pin Down 80 x 3 3/4" x 80 (CG 1 1/2") Balance Hole on VAL 1 1/2" below PAP	D
E	Pin Up 85 x 3 3/4" x 38 (CG 1/2") Double Thumb Balance Hole	0.072	0.043	Pin Down 35 x 5 1/2" x 75 (CG 1 1/4") Balance Hole at PAP	E
F	Pin Up 85 x 3 3/4" x 38 (CG 1 1/2") Balance Hole on VAL 1 1/2" below PAP	0.064	0.039	Pin Down 90 x 2 1/4" x 50 (CG 1 1/4") Balance Hole at PAP	F

The Fix - Asymmetric Layouts			The Fix - Symmetric Layouts		
Layout Specs		RG of PAP	RG of PAP	Layout Specs	
A higher RG of the PAP indicates slightly more length down the lane.					
A	Pin Up 65 x 5 1/4" x 48 (CG 1/2")	2.552	2.563	Pin Down 75 x 5 1/4" x 80 (CG 1/2")	A
B	Pin Up 70 x 4 1/2" x 48 (CG 1/2")	2.546	2.561	Pin Down 85 x 4 1/2" x 80 (CG 1/2")	B
C	Pin Up 85 x 3 3/4" x 38 (CG 1/2")	2.542	2.559	Pin Down 95 x 3 3/4" x 80 (CG 1/2")	C
D	Pin Up 85 x 3 3/4" x 38 (CG 1/2") Motion Hole	2.550	2.556	Pin Down 80 x 3 3/4" x 80 (CG 1 1/2") Balance Hole on VAL 1 1/2" below PAP	D
E	Pin Up 85 x 3 3/4" x 38 (CG 1/2") Double Thumb Balance Hole	2.528	2.565	Pin Down 35 x 5 1/2" x 75 (CG 1 1/4") Balance Hole at PAP	E
F	Pin Up 85 x 3 3/4" x 38 (CG 1 1/2") Balance Hole on VAL 1 1/2" below PAP	2.538	2.554	Pin Down 90 x 2 1/4" x 50 (CG 1 1/4") Balance Hole at PAP	F



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A ball for everyone that bowls!
The FLX is in, don't be left behind!



The Who.....

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Who is it for.....



- **Drilling options for all styles of bowlers**
 - Wide array of drillings that provide plenty of options for targeting ball motion on nearly all lane conditions
 - Perfect option for players that like to develop their arsenals with their “favorite ball” using different layouts that provide significant differences in ball motion and breakpoint shape



THE FIX

*The Available
When.....
November 15th*



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Less Hook

Medium

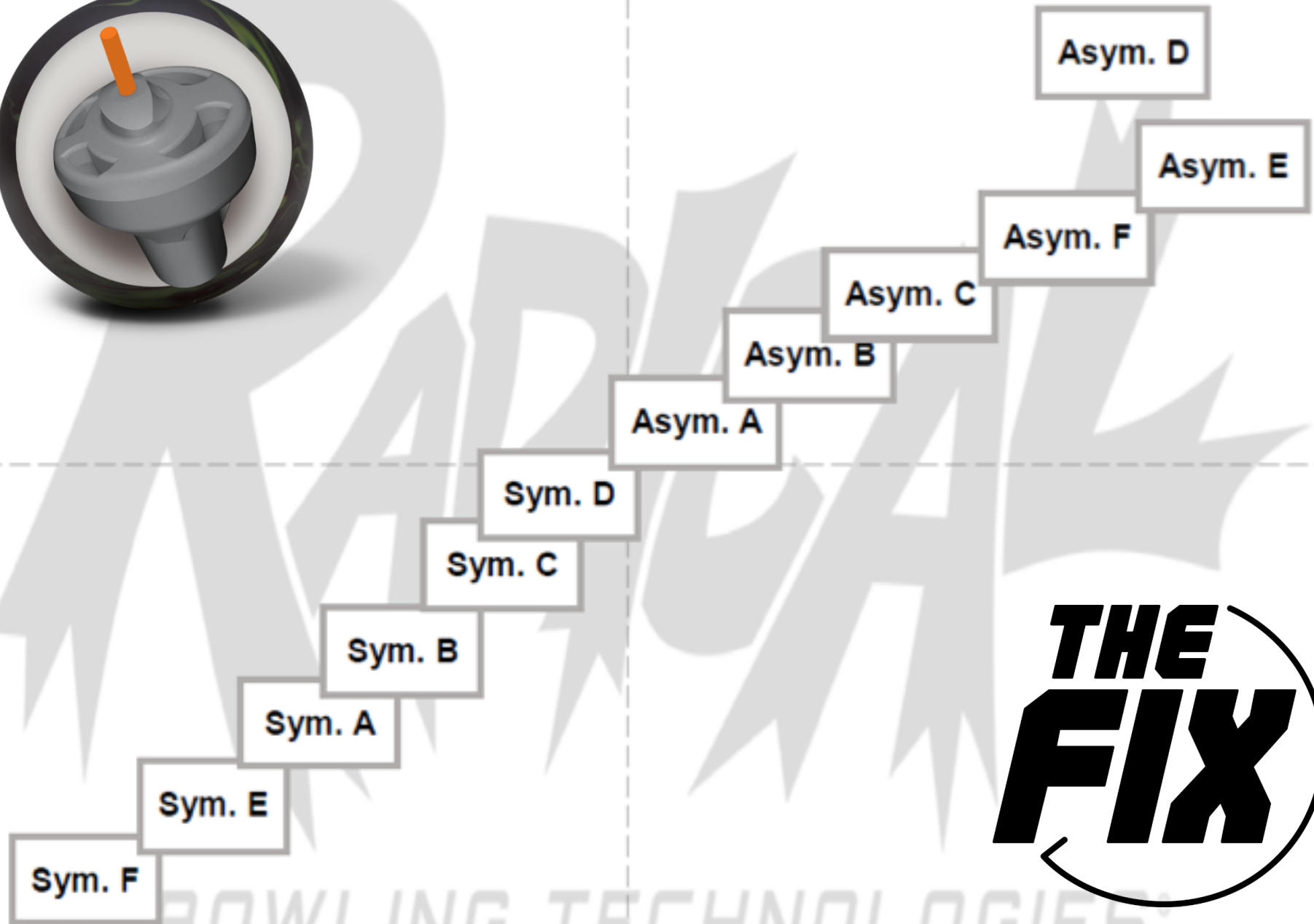
More Hook

More Backend



Medium

More Roll



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Reaction chart measured with Factory Finish

The Fix Reaction Chart 10.14

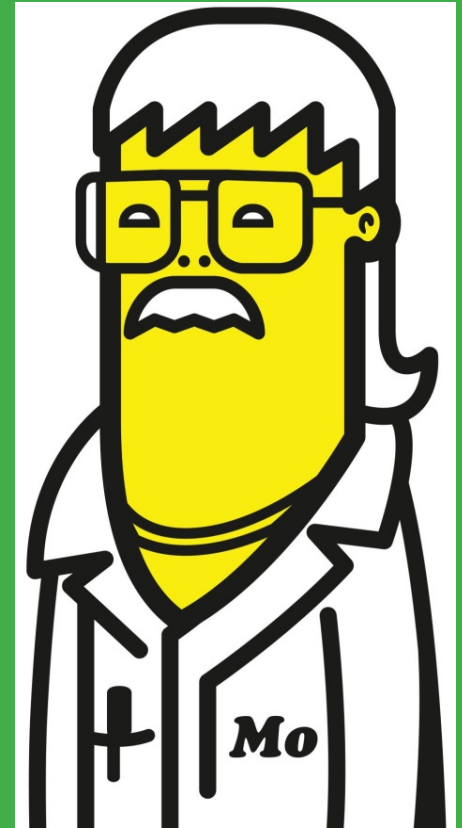
Technical questions?
Contact Mo Pinel at
mopeymagic@gmail.com

Please allow enough time for him to respond.

and that is definitely

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Thank you

from all of us at

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