



Like many I recently purchased a Blast Motion Golf device. Although the Blast is sold to aid the golfer with numerous departments of their game, I purchased mine with the intent of using it to give me feedback on my putting stroke.

With great excitement I unpacked my latest gadget, this surely is the one. The answer to my putting woes. So I went to work on the putting green. What a bargain, \$200 for a device that measures backswing and downswing timings, rotational values of the putter and loft increase/decrease, not to mention lie angle.

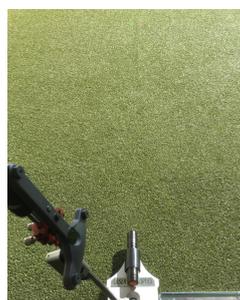
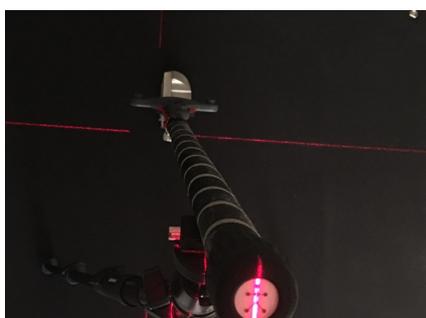
So the world of me was a happy place. Merrily putting daily. My practice rich in feedback and deliberate construct.

So I went to see my long-time friend and fellow professional Jason. Master Murray is fast becoming a phenomenal putting coach, a PGA professional that I send clients to, be it casual, elite level or professional clientele. A man I trust implicitly, a student of the game and a man whose thirst for knowledge and academic research sets him apart from your average self-proclaimed putting 'guru'.

In I walked to his studio, beaming smile from ear to ear. "Wait until you see what I have 'Jas' my old friend!

Now Jason has more technology than your average PC World. However here is a man who knows how to use data responsibly and understands the complexities of learning, from the utilisation of appropriate constraints to the complex landscape of intrinsic dynamics and attractor wells. So in his usual inquisitive manner Jason looked at my Blast and with a "hmmmm" stated that we were going to compare the blast to both his Zenio and SAM putt labs.

As a self-proclaimed 'golf pervert' this had my attention. After a quick phone call informing the ever understanding Mrs B that once again I may be late home we began.



So firstly the boring bit. We calibrated the putter alignment on Sam and used a cross laser to ensure that the blast was correctly aligned and added the Zenio face plate. Then we began!

Ten putts on Jasons self-made putting green. I would like to add at this point that your truly holed all 10 ten foot putts, dispatched with a silky stroke that would have made Seve proud, god bless his soul.

Then the data bit. We collated the information gathered and sent it to my good friend at Birmingham University Dr Matt Bridge.

So although not a robust academic study and although we only hit ten putts where truly we would need a sample of ten, tentatively I could suggest that:

Back swing time: SAM and Blast are equivalent - Zenio is significantly shorter

Time to impact: SAM and Blast are equivalent - Zenio is significantly shorter

Face Change: SAM and Zenio are equivalent - Blast is significantly lower

Forward Rot: All three are significantly different to each other

Means below

Descriptives		N	Mean	Std. Deviation	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Back Swing (ms)	SAM	10	615.8	37.1298	589.239	642.361	557	658
	Blast	10	584	34.7051	559.173	608.827	540	640
	Zenio	10	532.3	40.7814	503.127	561.473	488	596
Time to Impact	SAM	10	258	10.89342	250.2073	265.7927	237	274
	Blast	10	268	6.32456	263.4757	272.5243	260	280
	Zenio	10	248.3	9.21412	241.7086	254.8914	239	267
Face Change BS	SAM	10	0.77	0.3335	0.5314	1.0086	0.3	1.4
	Blast	10	0.33	0.29078	0.122	0.538	0	0.9
	Zenio	10	0.84	0.44771	0.5197	1.1603	0.3	1.5
Forward Rotation to Impact	SAM	10	2.65	0.24608	2.474	2.826	2.3	3.2
	Blast	10	3.84	0.31693	3.6133	4.0667	3.2	4.2
	Zenio	10	4.45	0.25495	4.2676	4.6324	4	4.8

SAM Back Swing (ms)	Blast Back Swing (ms)	Zenio Back Swing (ms)
586	560	508
643	640	586
642	620	596
658	610	576
643	610	547
600	580	518
657	580	508
572	540	488
557	560	508
600	540	488

SAM Forward Rotation to Impact	Blast Forward Rotation to Impact	Zenio Forward Rotation to Impact
2.7C	3.2C	4.0C
2.7C	3.7C	4.6C
2.6C	4.2C	4.6C
3.2C	4.2C	4.8C
2.7C	4.0C	4.2C
2.3C	4.0C	4.4C
2.6C	3.7C	4.2C
2.5C	4.0C	4.6C
2.8C	3.9C	4.7C
2.4C	3.5C	4.4C

SAM Time to Impact	Blast Time to Impact	Zenio Time to Impact	SAM Face Change BS
273	280	267	0.8
259	270	241	0.8
260	270	239	1.4
274	270	253	1.1
264	270	246	0.6
254	260	247	0.5
250	270	260	0.9
254	260	242	0.4
255	270	248	0.9
237	260	240	0.3

Blast Time to Impact	Zenio Time to Impact	SAM Face Change BS	Blast Face Change BS	Zenio Face Change BS
280	267	0.8	0.1	1
270	241	0.8	0.5	0.3
270	239	1.4	0.7	1.3
270	253	1.1	0.9	1.5
270	246	0.6	0.1	1.3
260	247	0.5	0.3	0.8
270	260	0.9	0.3	1
260	242	0.4	0.1	0.5
270	248	0.9	0.3	0.4
260	240	0.3	0	0.3





