

# Butterfly Blade Matrix

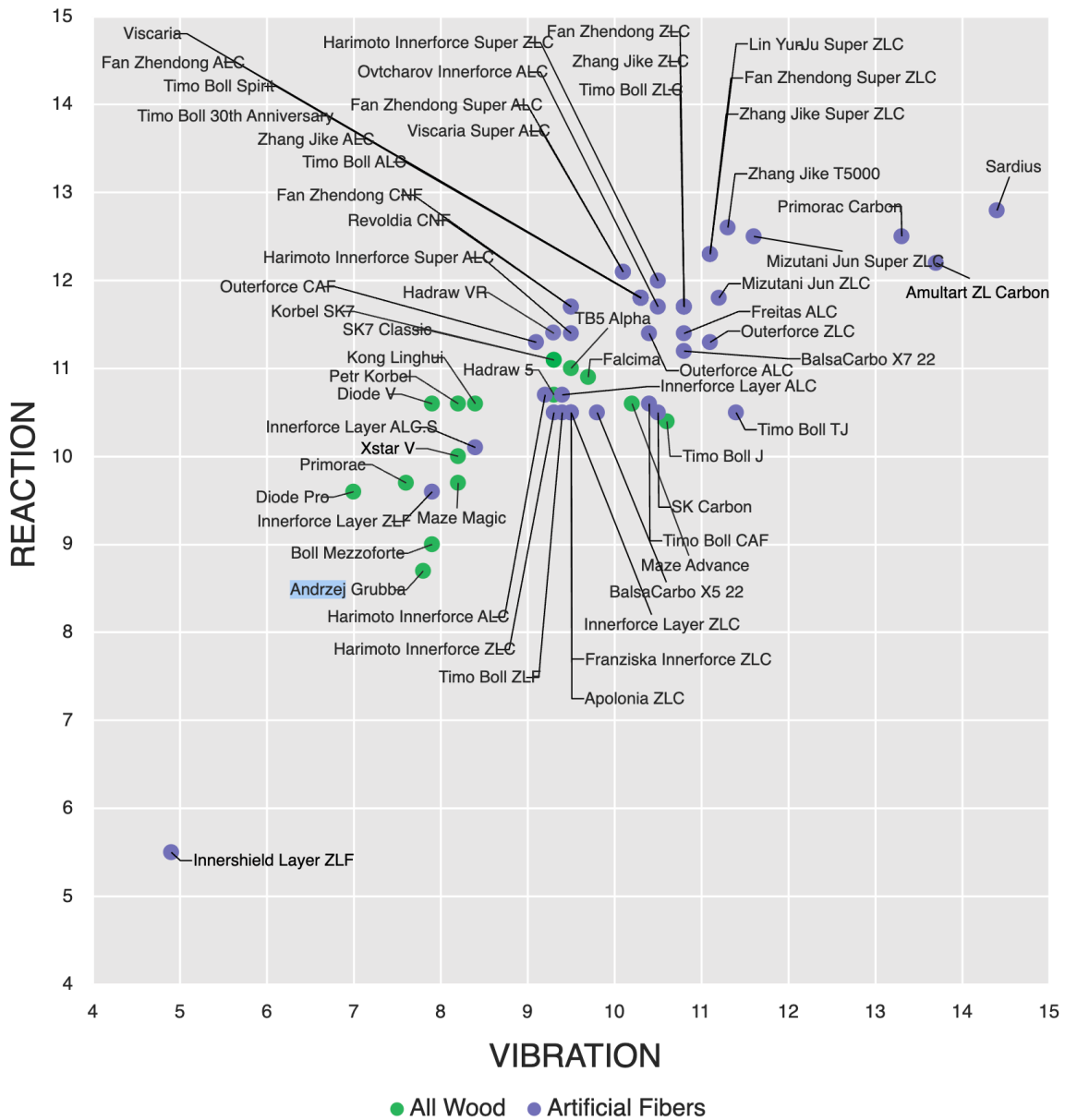


# BUTTERFLY



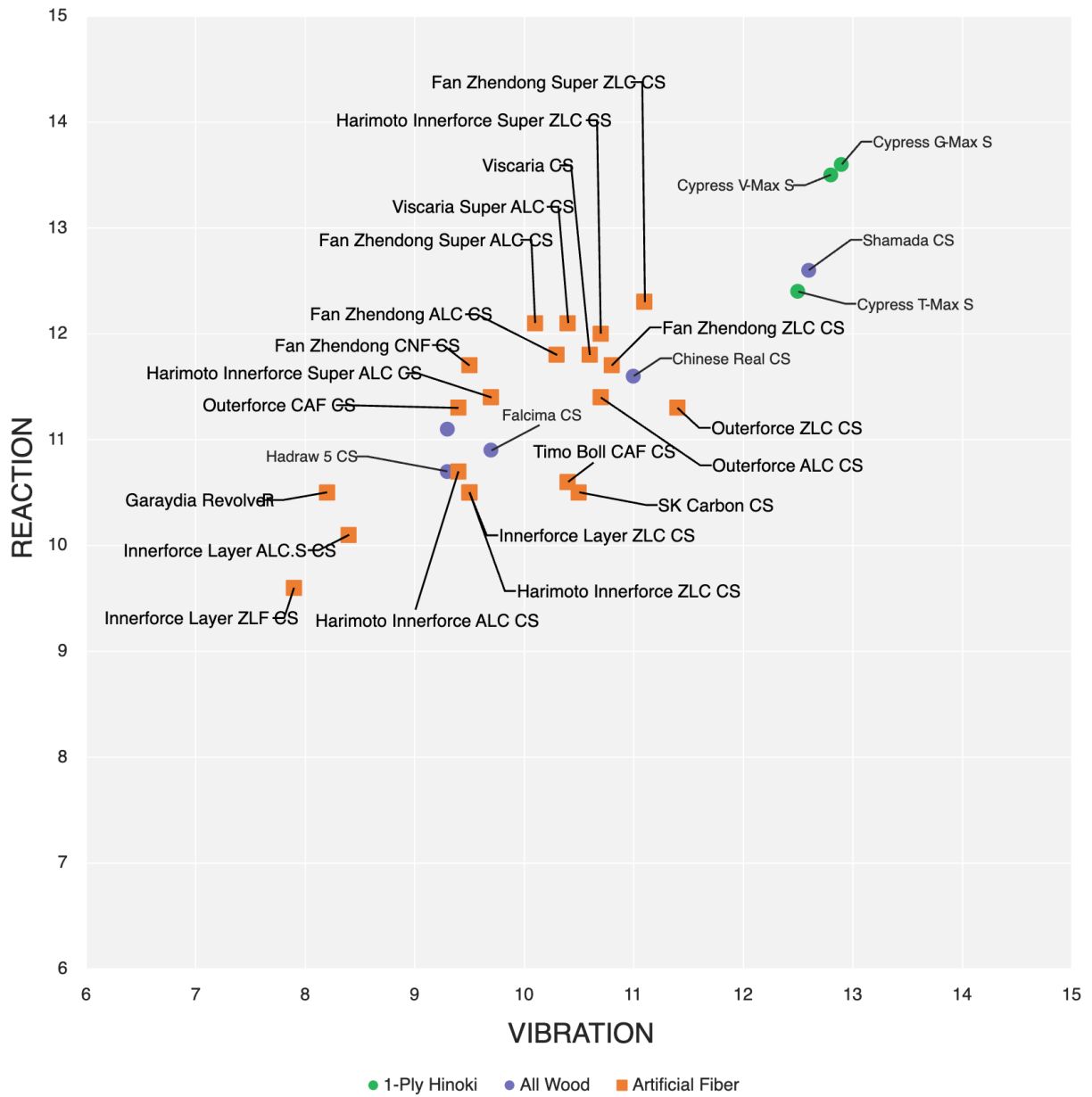
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## Shakehand Blades



Blade	Playing Style	Plies	Reaction	Vibration	Weight (avg. grams)	Head Height (mm)	Head Width (mm)	Head Thickness	AN Handle Dims	FL Handle Dims	SI Handle Dims	ST Handle Dims	Material	Special Structure	Special Handle
Amulstart ZL Carbon Blade	Offensive Shakehand	3-ply + 2 ZLC	12.2	13.7	86	157	150	7.1		100x25x34	100x24x28		ZLC (ZL Carbon)		
Andrzej Grubba Blade	All-Round Shakehand	5-ply	8.7	7.8	85	159	151	5.7	100x25x34	100x25x34		100x25x28	All Wood		
Apolonia ZLC Blade	Offensive Shakehand	5-ply + 2 Super ALC	10.5	9.5	91	157	150	5.7	100x24x34	100x24x34		100x23x28	ZLC (ZL Carbon)	Innerfiber	
BalsaCarbo X5 22 Blade	Offensive Shakehand	3-ply + 2 Carbon	10.5	9.8	72	158	152	6	100x24x30	100x24x33		100x24x27	Carbon		
BalsaCarbo X7 22 Blade	Offensive Shakehand	5-ply + 2 Carbon	11.2	10.8	75	158	152	7.5	100x24x30	100x24x33		100x24x27	Carbon		
Boll Mezzoforte Blade	All-Round Shakehand	5-ply	9	7.9	77	158	152	5	100x25x30	100x25x32		100x23x27	All Wood		
Diode Pro Blade	Defensive Shakehand	5-ply	9.6	7	90	165	156	5.5		100x24x34		100x23x28	All Wood		
Diode V Blade	Defensive Shakehand	5-ply	10.6	7.9	94	165	156	5.7		100x24x34		100x23x28	All Wood		
Falcima Blade	Offensive Shakehand	5-ply	10.9	9.7	87	157	150	6		100x24x34			All Wood		
Fan Zhendong ALC	Offensive Shakehand	5-ply + 2 ALC	11.8	10.3	87	157	150	5.8		100x25x34		100x23x28	ALC (Arylate-Carbon)		
Fan Zhendong CNF	Offensive Shakehand	5-ply + 2 CNF	11.7	9.5	89	157	150	5.7		100x25x34		100x23x28	CNF (Cellulose Nano Fiber)		
Fan Zhendong Super ALC	Offensive Shakehand	5-ply + 2 Super ALC	12.1	10.1	88	157	150	5.7		100x25x34		100x23x28	SALC (Super ALC)		
Fan Zhendong Super ZLC	Offensive Shakehand	5-ply + 2 Super ZLC	12.3	11.1	90	157	150	5.6		100x25x34		100x23x28	SZLC (Super ZLC)		
Fan Zhendong ZLC	Offensive Shakehand	5-ply + 2 ZLC	11.7	10.8	89	157	150	5.5		100x25x34		100x23x28	ZLC (ZL Carbon)		
Franziska Innerforce ZLC Blade	Offensive Shakehand	5-ply + 2 ZLC	10.5	9.5	84	157	150	5.7	100x24x34	100x24x34		100x23x28	ZLC (ZL Carbon)	Innerfiber	
Freitas ALC Blade	Offensive Shakehand	5-ply + 2 ALC	11.4	10.8	89	157	150	6	100x25x34	100x25x34		100x23x28	ALC (Arylate-Carbon)		
Hadraw 5	Offensive Shakehand	5-ply	10.7	9.3	87	157	150	5.9		100x25x34		100x23x28	All Wood		
Hadraw VR Blade	Offensive Shakehand	5-ply	11.4	9.3	88	157	150	5.9	100x25x34	100x25x34		100x23x28	All Wood		
Harimoto Innerforce ALC Blade	Offensive Shakehand	5-ply + 2 ALC	10.7	9.2	87	158	152	6	100x25x34	100x25x34		100x23x28	ALC (Arylate-Carbon)	Innerfiber	
Harimoto Innerforce Super ALC	Offensive Shakehand	5-ply + 2 Super ALC	11.4	9.5	87	158	152	5.9	100x25x34	100x25x34		100x23x28	SALC (Super ALC)	Innerfiber	
Harimoto Innerforce Super ZLC Blade	Offensive Shakehand	5-ply + 2 Super ZLC	12	10.5	87	158	152	6.2	100x25x34	100x25x34		100x23x28	SZLC (Super ZLC)	Innerfiber	
Harimoto Innerforce ZLC Blade	Offensive Shakehand	5-ply + 2 ZLC	10.5	9.3	87	158	152	5.7	100x24x34	100x24x34		100x23x28	ZLC (ZL Carbon)	Innerfiber	
Innerforce Layer ALC Blade	Offensive Shakehand	5-ply + 2 ALC	10.7	9.4	91	157	150	6	100x25x34	100x25x34		100x23x28	ALC (Arylate-Carbon)	Innerfiber	
Innerforce Layer ALC.S Blade	Offensive Shakehand	5-ply + 2 ALC	10.1	8.4	88	157	150	5.5	100x25x34	100x25x34		100x23x28	ALC (Arylate-Carbon)	Innerfiber	
Innerforce Layer ZLC Blade	Offensive Shakehand	5-ply + 2 ZLC	10.5	9.5	90	157	150	5.7	100x24x34	100x24x34		100x23x28	ZLC (ZL Carbon)	Innerfiber	
Innerforce Layer ZLF Blade	Offensive Shakehand	5-ply + 2 ZLF	9.6	7.9	86	157	150	5.3	100x24x34	100x24x34		100x22x28	ZLF (ZL Fiber)	Innerfiber	
Innershield Layer ZLF Blade	Defensive Shakehand	5-ply + 2 ZLF	5.5	4.9	86	166	155	5.1		100x24x34		100x23x30	ZLF (ZL Fiber)	Innerfiber	
Kong Linghui Blade	Offensive Shakehand	5-ply	10.6	8.4	90	154	148	5.5		100x24x34			All Wood		
Korbel SK7 Blade	Offensive Shakehand	7-ply	11.1	9.3	92	157	150	6.8	100x24x34	100x24x35		100x23x28	All Wood		
Lin Yun-Ju Super ZLC Blade	Offensive Shakehand	5-ply + 2 Super ZLC	12.3	11.1	84	157	150	5.6	100x24x32	100x25x34		100x23x28	SZLC (Super ZLC)		
Maze Advance Blade	Offensive Shakehand	5-ply	10.6	10.2	82	157	150	6.7		100x24x34			All Wood		
Maze Magic Blade	All-Round Shakehand	5-ply	9.7	8.2	85	159	151	5.9	100x24x34	100x24x34		100x24x28	All Wood		
Mizutani Jun Super ZLC Blade	Offensive Shakehand	5-ply + 2 Super ZLC	12.5	11.6	90	157	150	5.8	100x24x34	100x24x34		100x22x27.5	SZLC (Super ZLC)		
Mizutani Jun ZLC Blade	Offensive Shakehand	5-ply + 2 ZLC	11.8	11.2	87	157	150	5.7	100x24x34	100x24x34		100x22x27.5	ZLC (ZL Carbon)		
Outerforce ALC	Offensive Shakehand	5-ply + 2 ALC	11.4	10.4	86	157	150	6.2	100x25x34	100x25x34		100x23x28	ALC (Arylate-Carbon)	Outerfiber	
Outerforce CAF	Offensive Shakehand	5-ply + 2 CAF	11.3	9.1	85	157	150	6.3	100x25x34	100x25x34		100x23x28	CAF (CA Fiber)	Outerfiber	
Outerforce ZLC	Offensive Shakehand	5-ply + 2 ZLC	11.3	11.1	85	157	150	5.9	100x25x34	100x25x34		100x23x28	ZLC (ZL Carbon)	Outerfiber	
Ovtcharov Innerforce ALC Blade	Offensive Shakehand	5-ply + 2 ALC	11.7	10.5	89	158	152	6.2	100x25x34	100x25x34		100x23x28	ALC (Arylate-Carbon)	Innerfiber	
Petr Korbel Blade	Offensive Shakehand	5-ply	10.6	8.2	90	158	152	5.9		100x24x34		100x23x28	All Wood		
Primorac Blade	Offensive Shakehand	5-ply	9.7	7.6	84	157	150	5.5		100x25x34			All Wood		
Primorac Carbon Blade	Offensive Shakehand	3-ply + 2 T5000	12.5	13.3	89	157	150	7		100x25x35		100x23x28	T5000 (Tamca 5000)		
Revolgia CNF Blade	Offensive Shakehand	5-ply + 2 CNF	11.7	9.5	88	157	150	5.7		100x24x34			CNF (Cellulose Nano Fiber)		
Sardius Blade	Offensive Shakehand	3-ply + 2 T5000	12.8	14.4	92	158	152	7.2		100x25x35			T5000 (Tamca 5000)		
SK Carbon Blade	Offensive Shakehand	3-ply + 2 T5000	10.5	10.5	81	157	150	5.2		100x24x34		100x23x28	T5000 (Tamca 5000)		
SK7 Classic Blade	Offensive Shakehand	7-ply	11.1	9.3	91	157	150	6.8		100x25x34		100x23x28	All Wood		
TB5 Alpha FL Blade	Offensive Shakehand	5-ply	11	9.5	88	158	152	6.4		100x26x33			All Wood		
Timo Boll 30th Anniversary Edition FL	Offensive Shakehand	5-ply + 2 ALC	11.8	10.3	85	157	150	5.8		100x24x34			ALC (Arylate-Carbon)		G-Fless
Timo Boll ALC Blade	Offensive Shakehand	5-ply + 2 ALC	11.8	10.3	88	157	150	5.8	100x24x34	100x24x34		100x22x27.5	ALC (Arylate-Carbon)		
Timo Boll CAF Blade	Offensive Shakehand	3-ply + 2 CAF	10.6	10.4	82	157	150	5.7		100x24x34		100x22x28	CAF (CA Fiber)		
Timo Boll J FL Blade	Offensive Shakehand	5-ply	10.4	10.6	73	152	144	6.1		92x22x30			All Wood		
Timo Boll Spirit Blade	Offensive Shakehand	5-ply + 2 ALC	11.8	10.3	87	157	150	5.8	100x24x34	100x24x34		100x22x27.5	ALC (Arylate-Carbon)		
Timo Boll TJ FL Blade	Offensive Shakehand	3-ply + 2 T5000	10.5	11.4	72	154	146	5.2		95x21x30			T5000 (Tamca 5000)		
Timo Boll ZLC Blade	Offensive Shakehand	5-ply + 2 ZLC	11.7	10.8	84	157	150	5.5	100x24x34	100x24x34		100x22x27.5	ZLC (ZL Carbon)		
Timo Boll ZLF Blade	Offensive Shakehand	5-ply + 2 ZLF	10.5	9.4	82	157	150	5.4	100x24x34	100x24x34		100x22x27.5	ZLF (ZL Fiber)		
Viscaria Blade	Offensive Shakehand	5-ply + 2 ALC	11.8	10.3	87	157	150	5.8		100x25x34		100x23x28	ALC (Arylate-Carbon)		
Viscaria Super ALC Blade	Offensive Shakehand	5-ply + 2 Super ALC	12.1	10.1	88	157	150	5.7		100x25x34		100x23x28	SALC (Super ALC)		
Xstar V Blade	Offensive Shakehand	5-ply	10	8.2	83	158	152	5.6		100x24x33			All Wood		
Zhang Jike ALC Blade	Offensive Shakehand	5-ply + 2 ALC	11.8	10.3	90	157	150	5.8	100x24x32	100x25x34		100x23x28	ALC (Arylate-Carbon)		
Zhang Jike Super ZLC Blade	Offensive Shakehand	5-ply + 2 Super ZLC	12.3	11.1	90	157	150	5.6	100x24x32	100x25x34		100x23x28	SZLC (Super ZLC)		
Zhang Jike T5000 Blade	Offensive Shakehand	5-ply + 2 T5000	12.6	11.3	91	157	150	5.6	100x24x32	100x25x34		100x23x28	T5000 (Tamca 5000)		
Zhang Jike ZLC Blade	Offensive Shakehand	5-ply + 2 ZLC	11.7	10.8	89	157	150	5.5	100x24x32	100x25x34		100x23x28	ZLC (ZL Carbon)		

# Penhold Blades



Blade	Playing Style	Plies	Reaction	Vibration	Avg Weight (g)	(mm)	(mm)	Thickness	(mm)	Material	Structure
Chinese Real CS Blade	Quick Attack	5W	11.6	11	80	158	150	7.7	82x24	All Wood	
Cypress G-Max S Blade	Topspin-Minded	1W	13.6	12.9	89	161	135	10	92x20	All Wood	
Cypress T-Max S Blade	Topspin-Minded	1W	12.4	12.5	94	163	135	10	92x20	All Wood	
Cypress V-Max S Blade	Topspin-Minded	1W	13.5	12.8	93	163	135	10	92x20	All Wood	
Falcima CS Blade	Quick Attack	5W	10.9	9.7	81	161	150	6	82x23	All Wood	
Fan Zhendong ALC CS	Quick Attack	5W+2ALC	11.8	10.3	82	161	150	5.8	82x24	ALC (Arylate-Carbon)	
Fan Zhendong CNF CS	Quick Attack	5W+2CNF	11.7	9.5	89	161	150	5.7	82x24	CNF (Cellulose Nano Fiber)	
Fan Zhendong Super ALC CS	Quick Attack	5W+2SALC	12.1	10.1	89	161	150	5.7	82x24	SALC (Super ALC)	
Fan Zhendong Super ZLC CS	Quick Attack	5W+2SZLC	12.3	11.1	85	161	150	5.6	82x24	SZLC (Super ZLC)	
Fan Zhendong ZLC CS	Quick Attack	5W+2ZLC	11.7	10.8	81	161	150	5.5	82x24	ZLC (ZL Carbon)	
Garaydia Revolver-R Blade	Combination	3W+2ALC	10.5	8.2	60	161	141	6.4	86x16	ALC (Arylate-Carbon)	
Hadraw 5 CS	Quick Attack	5W	10.7	9.3	86	161	150	5.9	82x24	All Wood	
Harimoto Innerforce ALC CS Blade	Quick Attack	5W+2ALC	10.7	9.4	85	161	150	6	82x24	ALC (Arylate-Carbon)	Innerfiber
Harimoto Innerforce Super ALC CS	Quick Attack	5W+2SALC	11.4	9.7	88	161	150	5.9	82x24	SALC (Super ALC)	Innerfiber
Harimoto Innerforce Super ZLC CS Blade	Quick Attack	5W+2SZLC	12	10.7	89	161	150	6.2	82x24	SZLC (Super ZLC)	Innerfiber
Harimoto Innerforce ZLC CS Blade	Quick Attack	5W+2ZLC	10.5	9.5	84	161	150	5.7	82x24	ZLC (ZL Carbon)	Innerfiber
Innerforce Layer ALC.S CS Blade	Quick Attack	5W+2ALC	10.1	8.4	88	161	150	5.5	82x24	ALC (Arylate-Carbon)	Innerfiber
Innerforce Layer ZLC CS Blade	Quick Attack	5W+2ZLC	10.5	9.5	89	161	150	5.7	82x24	ZLC (ZL Carbon)	Innerfiber
Innerforce Layer ZLF CS Blade	Quick Attack	5W+2ZLF	9.6	7.9	86	161	150	5.3	82x23	ZLF (ZL Fiber)	Innerfiber
Shamada CS Blade	Quick Attack	5W	12.6	12.6	90	160	150	7.5	80x23	All Wood	
SK Carbon CS Blade	Quick Attack	3W+2T5000	10.5	10.5	76	161	150	5.2	82x24	T5000 (Tamca 5000)	
SK7 Classic CS Blade	Quick Attack	7W	11.1	9.3	90	161	150	6.8	82x24	All Wood	
Timo Boll CAF CS Blade	Quick Attack	3W+2CAF	10.6	10.4	82	161	150	5.7	82x23	CAF (CA Fiber)	
Viscaria CS	Quick Attack	5W+2ALC	11.8	10.6	81	158	150	5.8	82x22	ALC (Arylate-Carbon)	
Viscaria Super ALC CS Blade	Quick Attack	5W+2SALC	12.1	10.4	89	158	150	5.7	82x22	SALC (Super ALC)	

## Reaction property

The reaction property is the quantified value illustrating the base speed of a blade.

A low reaction property signifies the lower speed of the ball after contact with the blade.

A high reaction property signifies the higher speed of the ball after impact.

## Vibration property

The vibration property is the quantified value illustrating the feeling of a blade on impact.

A low vibration property in general signifies slower vibration on ball contact and denotes a blade with a softer touch.

A high vibration property in general signifies faster vibration of the blade on contract with the ball and denotes a blade with a harder touch.