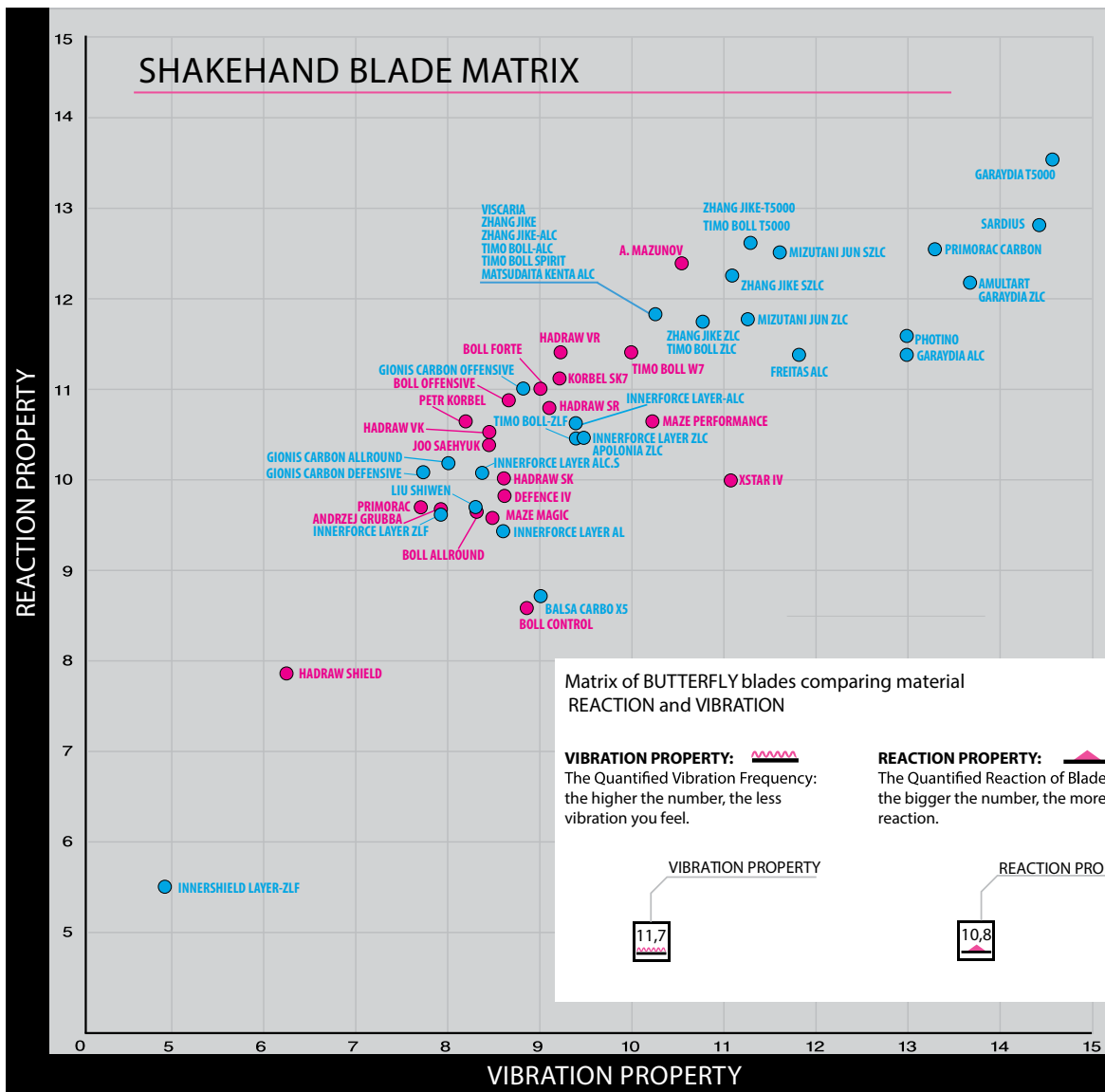


BUTTERFLY SHAKEHAND BLADE SPECIFICATION CHART

BLADE	PLAYING STYLES	PLIES	REACTION	VIBRATION	WEIGHT (Grams)	BLADE DIMS (MM)		HEAD THICKNESS (MM)	HANDLE DIMS (MM)		
						Avg.	H		W	AN	FL
A. Mazunov	Attack Shake	5W	12.4	10.5	102	158	152	6.7	100x25	100x25	100x23
Amultart	Attack Shake	3W+2ZLC	12.2	13.7	86	157	150	7.1	X	100x25	X
Andrzej Grubba	All-Round Shake	5W	9.7	7.9	85	159	151	5.7	100x25	100x25	100x25
Apolonia ZLC	Attack Shake	5W+2ZLC	10.5	9.5	89	157	150	5.7	100x24	100x24	100x23
Balsa Carbo X5	Attack Shake	3W+2C	8.7	9.0	80	159	150	6.7	100x25	100x25	100x25
Boll Allround	All-Round Shake	5W	9.6	8.3	85	158	150	5.8	100x25	100x25	100x25
Boll Control	All-Round Shake	5W	8.6	8.8	85	158	150	5.9	100x25	100x25	100x25
Boll Offensive	Attack Shake	5W	10.9	8.7	90	158	150	6.0	100x25	100x25	100x25
Boll Forte	Attack Shake	5W	11.0	9.0	90	158	150	6.0	100x25	100x25	100x25
Defence IV	Defense Shake	3W	9.8	8.6	87	166	155	6.4	X	100x24	100x23
Freitas ALC	Attack Shake	5W+2ALC	11.4	10.8	84	157	150	6.0	100x25	100x25	100x23
Garaydia ALC	Attack Shake	3W+2ALC	11.4	13.0	82	157	150	6.9	100x24	100x24	100x23
Garaydia T5000	Attack Shake	3W+2T5000	13.6	14.5	89	157	150	7.2	100x25	100x25	100x23
Garaydia ZLC	Attack Shake	3W+2ZLC	12.2	13.7	86	157	150	7.1	100x25	100x25	100x23
Gionis Carbon Allround	Attack Shake	5W+2C	10.2	8.0	85	159	152	5.7	100x25	100x25	100x25
Gionis Carbon Defensive	Attack Shake	5W+2C	10.1	7.8	85	164	157	5.9	X	X	100x25
Gionis Carbon Offensive	Attack Shake	5W+2C	11.0	8.8	90	159	152	6.2	100x25	100x25	100x25
Hadraw Shield	Defense Shake	5W	7.9	6.3	92	166	155	5.3	X	100x24	100x23
Hadraw SK	Attack Shake	7W	10.0	8.6	84	157	150	6.4	100x24	100x24	100x22
Hadraw SR	Attack Shake	7W	10.8	9.1	92	157	150	6.6	100x24	100x24	100x23
Hadraw VK	Attack Shake	5W	10.5	8.4	82	157	150	5.7	100x24	100x24	100x23
Hadraw VR	Attack Shake	5W	11.4	9.3	88	157	150	5.9	100x25	100x25	100x23
Innerforce Layer AL	Attack Shake	5W+2AL	9.4	8.6	79	157	150	5.9	100x25	100x25	100x23
Innerforce Layer ALC.S	Attack Shake	5W+2ALC	10.1	8.4	88	157	150	5.5	100x24	100x24	100x23
Innerforce Layer ALC	Attack Shake	5W+2ALC	10.7	9.4	85	157	150	6.0	100x25	100x25	100x23
Innerforce Layer ZLC	Attack Shake	5W+2ZLC	10.5	9.5	85	157	150	5.7	100x24	100x24	100x23
Innerforce Layer ZLF	Attack Shake	5W+2ZLF	9.6	7.9	86	157	150	5.3	100x24	100x24	100x22
Innershield Layer ZLF	Defense Shake	5W+2ZLF	5.5	4.9	85	166	155	5.1	X	100x24	100x23
Joo Saehyuk	Defense Shake	5W	10.4	8.5	101	165	156	6.0	X	100x24	100x23
Korbel SK7	Attack Shake	7W	11.1	9.3	92	157	150	6.8	X	100x24	X
Liu Shiwen	Attack Shake	5W+2ZLF	9.7	8.3	86	158	152	5.6	100x24	100x24	100x23
Matsudaira Kenta ALC	Attack Shake	5W+2ALC	11.8	10.3	85	157	150	5.8	X	100x23	X
Maze Magic	All-Round Shake	5W	9.5	8.5	85	159	151	5.9	100x24	100x24	100x24
Maze Performance	Attack Shake	5W	10.6	10.2	73	157	150	6.7	X	100x24	X
Mizutani Jun Super ZLC	Attack Shake	5W+2SZLC	12.5	11.6	90	157	150	5.8	X	100x24	100x22
Mizutani Jun ZLC	Attack Shake	5W+2ZLC	11.8	11.2	85	157	150	5.7	100x24	100x24	100x22
Petr Korbel	Attack Shake	5W	10.6	8.2	90	158	152	5.9	X	100x24	100x23
Photino	Attack Shake	3W+2ZLF	11.5	13.1	84	157	150	7.0	100x25	100x24	100x24
Primorac	Attack Shake	5W	9.7	7.6	84	157	150	5.5	X	100x25	X
Primorac Carbon	Attack Shake	3W+2T5000	12.5	13.3	89	157	150	7.0	X	100x25	100x23
Sardius	Attack Shake	3W+2T5000	12.8	14.4	92	158	152	7.2	X	100x25	X
Timo Boll ALC	Attack Shake	5W+2ALC	11.8	10.3	84	157	150	5.8	100x24	100x24	100x22
Timo Boll Spirit	Attack Shake	5W+2ALC	11.8	10.3	87	157	150	5.8	100x24	100x24	100x22
Timo Boll T5000	Attack Shake	5W+2T5000	12.6	11.3	90	157	150	5.6	100x24	100x24	100x22
Timo Boll W7	Attack Shake	7W	11.4	10.0	94	157	150	6.8	100x24	100x24	100x22
Timo Boll ZLC	Attack Shake	5W+2ZLC	11.7	10.8	84	157	150	5.5	100x24	100x24	100x22
Timo Boll ZLF	Attack Shake	5W+2ZLF	10.5	9.4	82	157	150	5.4	100x24	100x24	100x22
Viscaria	Attack Shake	5W+2ALC	11.8	10.3	85	157	150	5.8	X	100x25	X
X-Star IV	All-Round Shake	5W	10.0	10.1	78	154	148	6.1	X	102x24	X
Zhang Jike ALC	Attack Shake	5W+2ALC	11.8	10.3	86	157	150	5.8	102x24	100x25	100x23
Zhang Jike Super ZLC	Attack Shake	5W+2SZLC	12.3	11.1	87	157	150	5.6	102x24	100x25	100x23
Zhang Jike T5000	Attack Shake	5W+2T5000	12.6	11.3	90	157	150	5.6	102x24	100x25	100x23
Zhang Jike ZLC	Attack Shake	5W+2ZLC	11.7	10.8	86	157	150	5.5	102x24	100x25	100x23



PLAYING STYLE

ATTACK SHAKE

Shakehands grip blade for power top spin attacking players.

ALL-AROUND SHAKE

Shakehands grip blade for all-around players whose aim is balanced and controlled play.

DEFENCE SHAKE

Shakehands grip blade exclusively for defensive players; less bounce enables a stable defence to be combined with a fierce attack.

QUICK ATTACK PEN

Penhold grip blade suitable for attack and defence, enables fast reaction change from forehand and backhand.

TOP-SPIN MINDED PEN

Penhold grip blade for the powerful attacking top spin player.

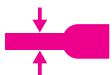
COMBI-NATION PEN

Combination Penhold grip blade for players with different rubber surfaces on either side of the racket.

BLADE DIMENSIONS



Width and length from the forefront to grip of the blade



Blade thickness of the shakehand and penhold blades



Grip thickness of shakehand and penhold blade

REACTION PROPERTY



REACTION

The quantified reaction of blade: the higher the number, the more reaction

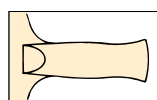
VIBRATION PROPERTY



VIBRATION

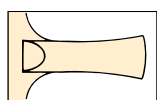
The quantified vibration frequency: the higher the number the less vibration you feel

GRIP SHAPE



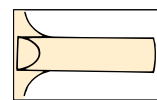
AN

Anatomic: Wave-shape grip fits the palm and provides stability



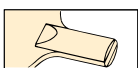
FL

Flared: Gravity center is closer to grip and the blade fits in the palm



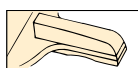
ST

Straight: The straight grip enables to change a way of grip according to the play



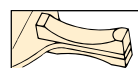
CS

Chinese Penhold Blade



JP

Japanese Penhold



COMBINATION

Combination Penhold

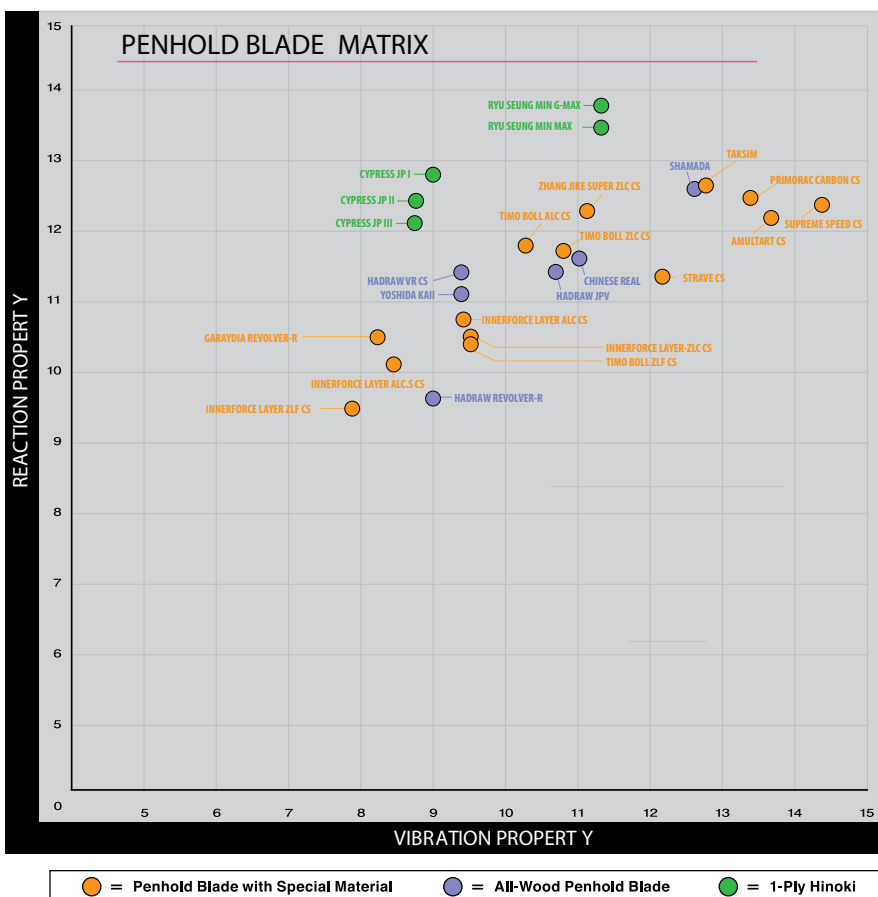
HEAD SHAPE (PENHOLD)

S – Angular Penhold Blade

R – Round-Angular Penhold Blade

BUTTERFLY PENHOLD SPECIFICATION CHART

BLADE	PLAYING STYLES	PLIES	REACTION	VIBRATION	WEIGHT (Grams)	BLADE DIMS (MM)		HEAD THICKNESS (MM)	HANDLE DIMS (MM)
						Avg.	H		
CHINESE STYLE									
Amultart CS	Quick Attack Pen	3W+2ZLC	12.2	13.7	84	161	150	7.1	82x25
Chinese Real	Quick Attack Pen	5W	11.6	11.0	77	158	150	7.7	82x24
Hadraw VR CS	Quick Attack Pen	5W	11.4	9.3	85	161	150	5.9	82x24
Innerforce Layer ALC.S CS	Quick Attack Pen	5W+2ALC	10.1	8.4	88	161	150	5.5	82x24
Innerforce Layer ALC CS	Quick Attack Pen	5W+2ALC	10.7	9.4	85	161	150	6.0	82x24
Innerforce Layer ZLC CS	Quick Attack Pen	5W+2ZLC	10.5	9.5	83	161	150	5.7	82x24
Innerforce Layer ZLF CS	Quick Attack Pen	5W+2ZLF	9.6	7.9	86	161	150	5.3	82x23
Primorac Carbon CS	Quick Attack Pen	3W+2T5000	12.5	13.3	84	161	150	6.9	82x25
Shamada	Quick Attack Pen	5W	12.6	12.6	84	160	150	7.5	80x23
Strave CS	Quick Attack Pen	3W+2T5000	11.4	12.2	74	158	150	6.7	82x23
Supreme Speed CS	Quick Attack Pen	3W+2ALC	12.4	14.3	79	157	150	6.9	82x25
Taksim	Quick Attack Pen	5W+2ALC	12.6	11.8	80	158	150	7.0	82x24
Timo Boll ALC CS	Quick Attack Pen	5W+2ALC	11.8	10.3	84	157	150	5.7	82x24
Timo Boll ZLC CS	Quick Attack Pen	5W+2ZLC	11.7	10.8	82	157	150	5.5	82x24
Timo Boll ZLF CS	Quick Attack Pen	5W+2ZLF	10.5	9.4	81	157	150	5.4	82x24
Yoshida Kaii	Quick Attack Pen	7W	11.1	9.3	91	161	150	6.8	82x25
Zhang Jike Super ZLC CS	Quick Attack Pen	5W+2SZLC	12.3	11.1	84	161	150	5.6	82x24
JAPANESE STYLE									
Cypress JP III	Top-Spin-Minded Pen	1W	12.1	8.8	83	163	135	8.7	92x20
Cypress JP II	Top-Spin-Minded Pen	1W	12.4	8.8	86	163	135	9.0	92x20
Cypress JP I	Top-Spin-Minded Pen	1W	12.8	9.0	87	163	135	9.3	92x20
Garaydia Revolver	Combination Pen	3W+2ALC	10.5	8.2	57	161	141	6.4	86x16
Hadraw JPV R	Quick Attack Pen	5W	11.4	10.7	78	161	141	7.1	92x20
Hadraw JPV S	Top-Spin-Minded Pen	5W	11.4	10.7	77	163	135	7.1	92x20
Hadraw Revolver	Combination Pen	5W	9.7	9.0	62	161	141	5.9	86x16
Ryu Seung Min G-Max	Top-Spin-Minded Pen	1W	13.8	11.3	87	163	135	10.0	92x20
Ryu Seung Min Max	Top-Spin-Minded Pen	1W	13.5	11.3	97	163	135	10.0	92x20



Matrix of BUTTERFLY blades comparing material REACTION and VIBRATION

REACTION PROPERTY:

The Quantified Reaction of Blade: the bigger the number, the more the reaction.



REACTION PROPERTY



VIBRATION PROPERTY:

The Quantified Vibration Frequency: the higher the number, the less vibration you feel.



VIBRATION PROPERTY

