

## NEW DIAMOND X7

We have packed so many technologies into our Diamond X5 racket, how can we add more!? In the X7 we manage to add 50 new features making this the most technologically advanced badminton racket we have ever built!

### NEW OVAL TAPER SHAFT TECHNOLOGY

Oval Taper Shaft

The idea was to create a completely new shaft, the most accurate, the most powerful and the fastest shaft ever. We restudied our Taper Shaft and completely redesigned it to create the OVAL TAPER SHAFT.

After extensive research, we found that Oval shape only flex in 1 direction giving it a straighter flex path. If we combine the Oval shape and our Taper Shaft together, this will create more powerful and extremely accurate shots. All the powers are directed in 1 direction making the shot more powerful and because it returns in the same path, racket will have a much quicker reflex back to its natural position ready for the next shot.

The idea was simple but the difficulty was in the HOW. We have tested many many shapes and prototypes and we finally selected Shaft 33B.

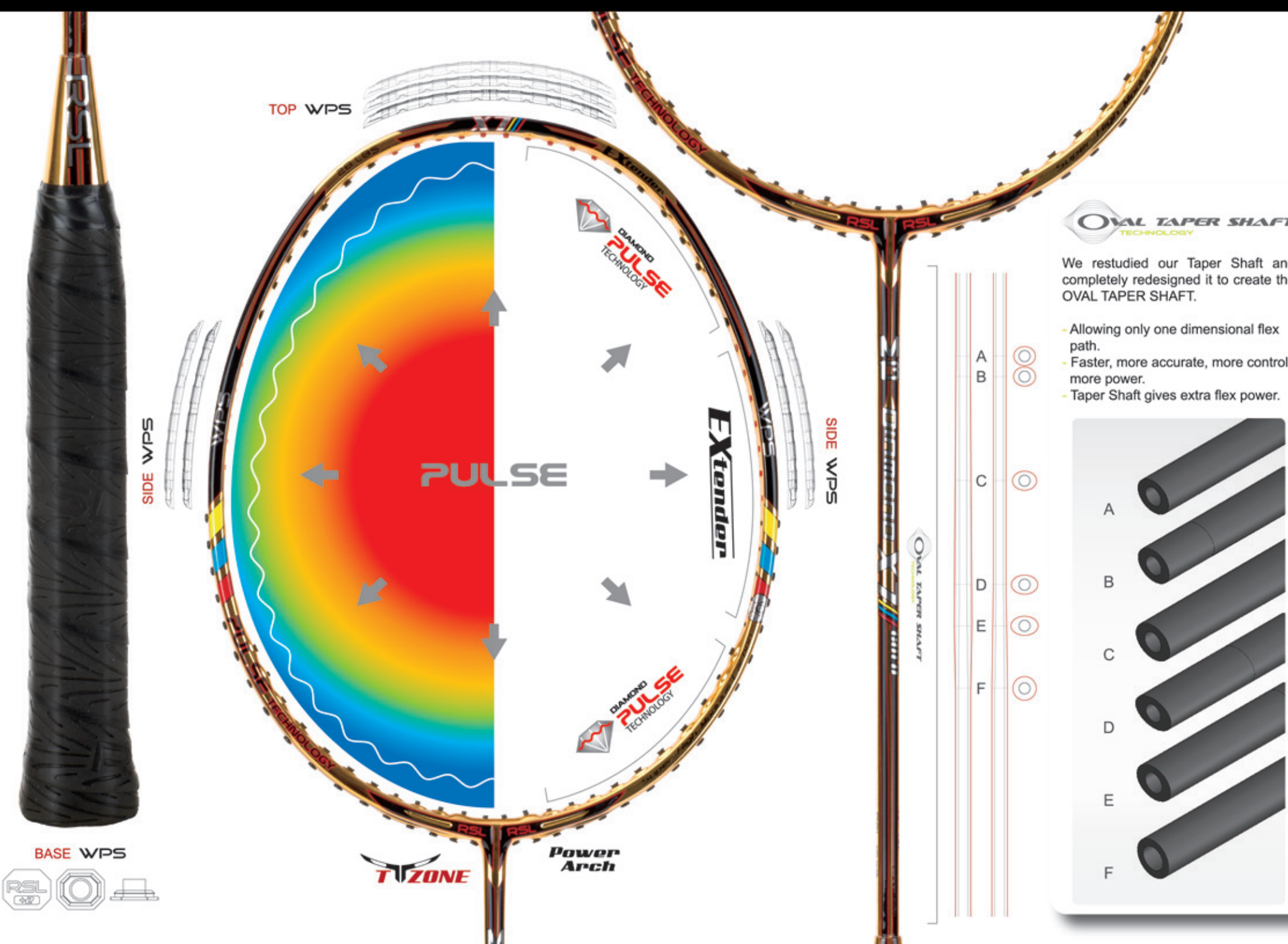
- Allowing only one dimensional flex path
- Faster, more accurate, more control, more power
- Taper Shaft gives extra flex power

### NEW WPS

Weight Positioning System WPS

• WPS Top Plate, Side Plates, End Plate alters the racket's weight at different positions which changes the balance, the stability, the power, the control and the feel of the racket.

- WPS Diamond Plate are customised to fit only Diamond X7 Rackets
- WPS gives X7 48 different characteristics for you to choose from! Don't compromise, build your own!



## WPS

Weight Positioning System

WPS is a system that alters the rackets weight at different positions which changes the balance, the stability, the power, the control and the feel of the racket.

### Rackets with WPS Technology

#### DIAMOND X7

3 Versions - Basic specs

Diamond X7	Shaft	Handle	Weight	Weight Variation
Gold	Super thin	Standard	83g (Original)	Min 82g - Max 89g
Silver	Oval Taper	Graphite	82g (Original)	Min 81g - Max 88g
Carbon	Oval Taper	Graphite	81g (Original)	Min 80g - Max 87g

#### EVOLUTION

3 Versions - Basic specs

Evolution	Shaft	Handle	Weight	Weight Variation
VR3	Super thin	Standard	83g (Original)	Min 82g - Max 89g
VR2	Taper	Standard	83g (Original)	Min 82g - Max 89g
VR1	Taper	Graphite	80g (Original)	Min 79g - Max 86g

### Type of Usages

#### 48 Rackets in 1

- There are 48 different combinations for each racket, there must be one that suits you perfectly.

#### A Racket Unique to You

- Build your own.

#### Save Cost

- A racket that stays suited to you for longer.

#### Grow with You

- As you grow as a player, your level or preference change. Now there is no need to buy a new racket. Diamond X7 and Evolution racket series will change with you.

#### Self Discovery

- Have fun with it, change the WPS around, see what type of racket characteristics suit you. You might be surprised to find a different style that suits you best.

#### Adjust, Adjust, Adjust

- Attack or defence style racket, it's your choice.
- Both String and Grip have weight, after stringing or adding new grip, characteristics of the racket change. WPS will re-balance the racket to the way YOU like it.

### Effects

#### WPS Top Plate (12 o'clock position)

- Increases Power (Biggest).
- Decreases in maneuverability.

#### WPS Side Plates (3 & 9 o'clock position)

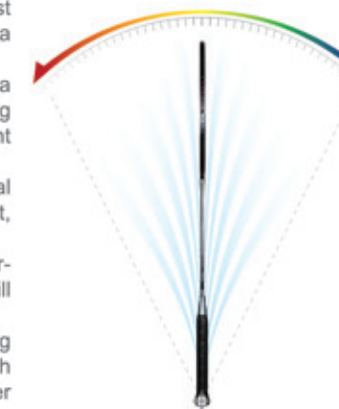
- Increase Racket Face Stability.
- Small increase in Power.
- Small decrease in maneuverability.

#### WPS End Plate

- Improves maneuverability when gripping higher up the handle.
- Changes the feel of the racket.

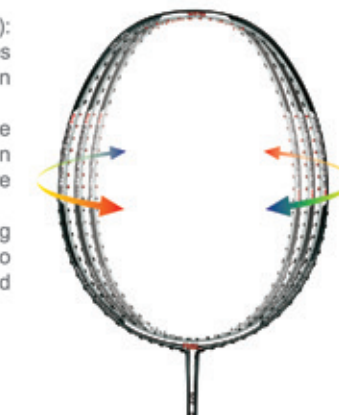
### Power (Swing Weight) (kg/cm2)

- Swing Weight (SW) is the best way to gauge the power of a racket.
- SW is a measurement of a racket's resistance to being rotated about the pivot point (where the racket is gripped).
- SW is dependent on several factors i.e. racket's weight, length, balance, head size.
- A high SW racket is more powerful than a low SW racket, but will be less maneuverable.
- SW can be increased by adding Side Plates and Top Plate with the Top Plate making a bigger difference.



### Racket face Stability (Polar Moment of Inertia) (oz/in²)

- Polar Moment of Inertia (MOI): The property that determines how stable a racket is on off-center hits.
- Racket with a larger MOI will be more resistant to twisting on off-center hits, resulting in more accurate shots.
- MOI can be increased by adding Side Plates, which will also affect the racket's balance and SW.



### Balance point (mm)

- Static measure of weight distribution in a racket is measured from the end of the handle.
- For the same Evolution racket, different WPS combination at either end of the racket will affect the balance and how the racket feels, head heavy or head light.



### Tech Specs - 48 Rackets in 1

#### Power, Stability, Balance point

Every WPS combination has a different feel and a different performance. In the player's mind, the feel usually trumps the performance. So be adventurous and explore as many new WPS combinations as possible.

#### Effects of WPS

	Top Plate	Side Plate	End Plate
Swing Weight (Power)	x	x	
Polar Moment of Inertia (Stability)	x	x	
Balance Point (Feel)	x	x	x



### Safety Instructions

The safest way to secure the WPS weight adjustment plates is by stringing



