Badminton 2013

YONEX®

one hundred and ten percent
Introduction
Arcasaber Technology
Arcasaber Racquets
Nanoray Technology
Nanoray Racquets
Voltric Technology
Voltric Racquets
Muscle Power & Isometric Racquets
B-Series + Training & Junior
Racquet Selector
Racquet Specifications
Racquet Technology
Strings
Shuttlecocks
Footwear Technology
Footwear
Bags
Clothing
Grip Tape
Accessories
YONEX is committed to the continuous development of cutting-edge racquets, delivering innovative design and the latest technologies, combining match-winning performance and exceptional style.

Take your game to the next level with YONEX.

Racquet Guide

**ArcSaber**
By storing and then releasing energy, ArcSaber delivers precise, shot-making for players seeking a higher level of control.

**Nanoray**
Nanoray provides a fast and controlled swing with enhanced repulsion for players who force their opponents into the back of the court with extreme speed.

**Voltric**
Combining incredible power and fast racquet handling for the first time, Voltric is the perfect racquet for players seeking exceptional, 'all-round' performance.

**Carbonex**
The round-shape head with box-shape frame cross section gives Carbonex a unique and solid feeling. For players who seek a solid feel from the strings at impact.

**Nanospeed**
Designed for players with a quick swing, Nanospeed is the ideal racquet for players seeking faster movement and greater maneuverability on court.

**Muscle Power**
A unique frame construction integrates the frame and string like no other racquet. For players who seek fast movement and effortless power with an easy feel.
Where power meets control and precision

The ARCSABER frame is designed to flex at the point of impact to hold the shuttle on the string bed for longer.

By storing and then releasing energy, ARCSABER delivers precise shot-making for players seeking a higher level of control.

The ARCSABER 11 offers badminton players an even greater level of control during the high speed rallies that are a part of today’s game.

The intensity and speed of these rallies make it difficult for even the world’s best players to play every shot from the centre of the racquet.

By storing and then releasing energy, the ARCSABER 11 delivers precise shot-making, the frame is designed to flex at the point of impact. Neo CS CARBON NANOTUBE improves the frame’s elasticity helping to hold the shuttle on the string bed for greater control at the point of impact.

Sonic Metal positioned in the frame, helps to give you even greater repulsion power especially when attacking, producing a sharper sound to unsettle your opponent. This combined with a new composite material T-ANCHOR, used in the T-joint helps reduce excess torque when hitting an off centre shot.

The ARCSABER 11 controlled power for your game.

<table>
<thead>
<tr>
<th></th>
<th>Strength (%)</th>
<th>Flexural Modules (Stiffness)</th>
<th>The distance of break (Strength)</th>
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Number (CONVENTIONAL GRAPHITE = 100)

Researched by YONEX R&D Team

ARCSABER FB - 73g that will change your game.

In 1980 YONEX launched Carbonex 8 which was the world’s first sub-100g racquet. Since then badminton has been transformed by lightweight racquets and the speed of play. We have challenged ourselves to produce an innovative new racquet that takes the demands of today’s ultra quick and powerful game to the next level.

The secret to this new racquet comes from a scientific breakthrough in NANOSCIENCE technology, called NANOMETRIC*. NANOMETRIC improves the bonding strength between the carbon fibers enabling us to take racquet shaft construction to another level. By reducing the amount of carbon in the shaft to make it 60% thinner than a conventional racquet whilst retaining stiffness, YONEX has created a revolutionary lightweight racquet with lightning head speed and control.

*NANOMETRIC is the new material which applies the HANDALLOY™ Technology of Toray Industries, Inc.

<table>
<thead>
<tr>
<th></th>
<th>Flexural Strength (Bending Strength) (%)</th>
<th>Flexural Modules (Stiffness)</th>
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Number (CONVENTIONAL GRAPHITE = 100)

Researched by YONEX R&D Team
**ARCSABER 11**

Neo CS CARBON NANO TUBE provides added bite to the shuttlecock and SONIC METAL increases the ability to deliver a high repulsion, rapid-fire return.

- **ITEM CODE**: ARC11
- **FLEX**: Stiff
- **FRAME**: H.M. Graphite
- **SHAFT**: CS CARBON NANO TUBE
- **WEIGHT/GRIIP SIZE**: 3U (80-84.9g) G3, 4U (85-89.9g) G4, 5U (90-94.9g) G5
- **COLOUR**: Sonic Blue
- **Made in Japan**

**ARCSABER FB**

The lightest racquet in YONEX’s history featuring NANO METRIC that combines innovative racquet handling ability and deadly power.

- **ITEM CODE**: ARC-FB
- **FLEX**: Stiff
- **FRAME**: H.M. Graphite
- **SHAFT**: CS CARBON NANO TUBE
- **WEIGHT/GRIIP SIZE**: 3U (80-84.9g) G3, 4U (85-89.9g) G4, 5U (90-94.9g) G5
- **COLOUR**: Sonic Blue
- **Made in Japan**

**ARCSABER Z-SLASH**

Innovative Slim Body design gives smoother movement and high speed swing for match-winning smashes.

- **ITEM CODE**: ARC-ZS
- **FLEX**: Medium
- **FRAME**: H.M. Graphite
- **SHAFT**: CS CARBON NANO TUBE
- **WEIGHT/GRIIP SIZE**: 3U (80-84.9g) G3, 4U (85-89.9g) G4, 5U (90-94.9g) G5
- **COLOUR**: Laser Yellow
- **Made in Japan**

**ARCSABER 9FL**

Super light 4U racquet with TOUGH LEX creates aggressive, accurate shots.

- **ITEM CODE**: ARC-9FL
- **FLEX**: Medium
- **FRAME**: H.M. Graphite
- **SHAFT**: CS CARBON NANO TUBE
- **WEIGHT/GRIIP SIZE**: 4U (80-84.9g) G4, 5U (85-89.9g) G5
- **COLOUR**: Crystal Pink
- **Made in Japan**

**ARCSABER 7**

CS CARBON NANO TUBE improves the frame’s elasticity, holding the shuttle on the strings for enhanced control.

- **ITEM CODE**: ARC7
- **FLEX**: Medium
- **FRAME**: H.M. Graphite
- **SHAFT**: CS CARBON NANO TUBE
- **WEIGHT/GRIIP SIZE**: 3U (80-84.9g) G3, 4U (85-89.9g) G4, 5U (90-94.9g) G5
- **COLOUR**: Shine Silver
- **Made in Japan**
NEW DESIGN

Combining NANOCELL, featuring NANOSCIENCE technology, with Super HMG creates a lighter, stiffer racquet with extreme repulsion power that assists fast swing speeds and deep returns.

**ARCSABER i-SLASH**
Wider sweet spot and innovative Slim Body generates an accurate, high-speed smash with ease.

- **ITEM CODE**: ARC-iS
- **FLEX**: Medium
- **FRAME**: Graphite
- **SHAFT**: H.T. Graphite
- **WEIGHT/Gripper**: 3U (85-89.9g) G4,5
- **COLOUR**: Black/Clear Red
- **Made in Japan**

**ARCSABER 6**
Lightweight racquet with a high swing speed, solid feel and high repulsion required by more advance players.

- **ITEM CODE**: ARC-6
- **FLEX**: Stiff
- **FRAME**: H.M. Graphite
- **SHAFT**: NANOCELL
- **WEIGHT/Gripper**: 3U (75-79.9g) G4,5 White/Orange
- **COLOUR**: Made in Taiwan

**ARCSABER 009DX**
Stiff DX Frame for sharp repulsion and NANOAIR SPRING for accurate control. Designed for hard-hitting players.

- **ITEM CODE**: ARC009DX
- **FLEX**: Extra Stiff
- **FRAME**: H.M. Graphite
- **SHAFT**: NANOCELL
- **WEIGHT/Gripper**: 3U (85-89.9g) G3,4,5 Gloss Silver
- **COLOUR**: Made in Taiwan

**ARCSABER 008DX**
Stiff DX Frame plus NANOAIR SPRING for both repulsion and control. Designed for hard-hitting players.

- **ITEM CODE**: ARC008DX
- **FLEX**: Extra Stiff
- **FRAME**: H.M. Graphite
- **SHAFT**: H.M. Graphite
- **WEIGHT/Gripper**: 3U (85-89.9g) G3,4,5 Silver/Red
- **COLOUR**: Made in Taiwan

**ARCSABER 002**
With the largest frame in the series, a large sweet spot allows easy and flexible play.

- **ITEM CODE**: ARC002
- **FLEX**: Flexible
- **FRAME**: H.M. Graphite
- **SHAFT**: NANOAIR SPRING
- **WEIGHT/Gripper**: 3U (85-89.9g) G3,4,5 White/Black
- **COLOUR**: Made in Taiwan
Attacking shots faster than ever before

The NANORAY series provides you with two vital advantages: Faster swing speed and higher repulsion. NANORAY is the perfect choice for those players who force their opponents into the back of the court.

NANORAY’s revolutionary frame design delivers a smooth swing and dynamic repulsion.

The NANORAY frame serves two different purposes. The upper frame's aerodynamics reduces air resistance and the lower frame's high level strength increases repulsion power. This, combined with a shaft that is designed to absorb shock on impact, for greater repulsion, makes the NANORAY racquet perfectly designed for lightning fast shot making during high speed rallies.

X-FULLERENE

Incorporating X-Fullerene into the whole shaft strengthens the binding force, increasing stiffness by 6% and repulsion power by 4%. This combination delivers high repulsion performance to hit deep into the opponent's court, even with a compact swing during high-speed rallies. Lightning fast shot-making with high repulsion is generated by near-instant 'snap back' from the shaft during the swing.

New shaft equipped with X-FULLERENE creates even greater repulsion power.

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<tr>
<th></th>
<th>Flexural Strength (Bending Strength) (%)</th>
<th>Force of Repulsion (%)</th>
<th>Stiffness (%)</th>
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Number of CONVENTIONAL GRAPHITES = 399
Researched by YONEX R&D Team

Applies to NR800, NR700RP, NR700FX, NR500, NR100.
NANORAY 800
X-FULLERENE combined with SONIC METAL produces a fast and controlled swing that generates powerful accurate, rapid-fire shots.

ITEM CODE | NR800
---|---
FLEX | Stiff
FRAME | H.M. Graphite
SHAFT | F.U.L.LERENE
WEIGHT/GRP SIZE | 4U (80-84 g) G4,5
3U (85-89 g) G3,4,5
COLOUR | Flash Blue
Made in Japan

NANORAY 700RP
NANORAY’s revolutionary frame design with FULLERENE for instant repulsion to make lightning fast attacks.

ITEM CODE | NR700RP
---|---
FLEX | Medium
FRAME | H.M. Graphite
SHAFT | F.U.L.LERENE
WEIGHT/GRP SIZE | 4U (80-84 g) G4,5
3U (85-89 g) G3,4,5
COLOUR | Flash Red
Made in Japan

NANORAY 700FX
NANORAY’s revolutionary frame design with TOUGHPLEX for flexible, all-round attack and defence play.

ITEM CODE | NR700FX
---|---
FLEX | Medium
FRAME | H.M. Graphite
TOUGHLEX SHAFT | H.M. Graphite
X-FULLERENE
WEIGHT/GRP SIZE | 4U (80-84 g) G4,5
3U (85-89 g) G3,4,5
COLOUR | Shine Silver/Red
Made in Japan

NANORAY 600
FX Plus and the LSC System reduce vibration and shock to create a smooth and comfortable playing style.

ITEM CODE | NR600
---|---
FLEX | Flexible
FRAME | H.M. Graphite
SHAFT | H.T. Graphite Elastomer
WEIGHT/GRP SIZE | 4U (80-84 g) G4,5
3U (85-89 g) G3,4,5
COLOUR | Shine Pink
Made in Japan

NANORAY 500
NANORAY’s revolutionary frame design for light and easy handling.

ITEM CODE | NR500
---|---
FLEX | Medium
FRAME | H.M. Graphite
SHAFT | H.M. Graphite
X-FULLERENE
WEIGHT/GRP SIZE | 4U (80-84 g) G4,5
3U (85-89 g) G3,4,5
COLOUR | Shine Pink
Made in Japan
**NANORAY 80**

The lightest head weight in the series with outstanding maneuverability.

- **Item Code**: NR80
- **Flex**: Stiff
- **Frame**: H.M. Graphite
- ** Shaft**: H.M. Graphite
- **Weight/Grp Size**: 4 (80-84.9g) G3,4,5
- **Color**: White/Orange
- **Made in Taiwan**

New cap shape and material reduce vibration from the shaft. The V.F. Cap delivers clean shots and reduces unwanted vibrations with a soft feel.

**NANORAY 100**

With in-built head and shaft flexibility for greater repulsion.

- **Item Code**: NR100
- **Flex**: Stiff
- **Frame**: H.M. Graphite
- ** Shaft**: H.M. Graphite
- **Weight/Grp Size**: 3U (85-89.9g) G3,4,5
- **Color**: Gloss Red
- **Made in Taiwan**

Super Slim Frame

This thin frame provides greater head speed and a solid feel, perfect for the advanced player.

**NANORAY 60**

The highest repulsion speed of the whole NANORAY series.

- **Item Code**: NR60
- **Flex**: Medium
- **Frame**: Graphite
- ** Shaft**: Graphite
- **Weight/Grp Size**: 4U (80-84.9g) G3,4,5
- **Color**: White/Red
- **Made in Taiwan**

New cap shape and material reduce vibration from the shaft. The V.F. Cap delivers clean shots and reduces unwanted vibrations with a soft feel.

**AERO-BOX Variframe**

Aerodynamic contouring of the top of the frame minimizes air resistance so air flows faster across the curved surface during the swing, transferring more speed and power into shots. This construction creates high stability, low-torque performance and greater accuracy.

**NANORAY 20**

A versatile and powerful model designed for all-round play.

- **Item Code**: NR20
- **Flex**: Flexible
- **Frame**: Graphite
- ** Shaft**: Graphite
- **Weight/Grp Size**: 4U (80-84.9g) G3,4,5
- **Color**: White/Gold
- **Made in Taiwan**

This thin frame provides greater head speed and a solid feel, perfect for the advanced player.
Combining incredible power and fast racquet handling for the first time, VOLTRIC is the ‘all-round’ racquet to take your game to a whole new level.

**Voltric is Power**

The stiff racquet structure at the top of the frame allows the head to bend in a very controlled way and hold shuttles on the string bed for longer. The thin frame sides then allow the frame to flex more and transfer more energy to the shuttle. This combination allows you to smash with instant power.

**Voltric is agility**

In VOLTRIC, the weight is balanced on the top of the frame and at the joint area which allows good handling while also maintaining power. The thin sides of the frame and at the top of the head reduce air resistance and improve the handling even further. Players can now make a full swing even during short range rallies as VOLTRIC responds instantly to even subtle movements.

**SOUND FILTER**

Voltric is strong sounding

Another innovative YONEX technology, SOUND FILTER uses new materials at the two and ten o’clock positions to reduce only high pitched and dull soundwaves. This produces a louder and sharper sound on impact to unsettle opponents and provides a more aggressive tone to your game for a relentlessly attacking style of play.

Sound Filter also reduces uncomfortable sensations from the racquet by rapidly eliminating 31% of vibrations.
**VOLTRIC Z-FORCE**

Stiffer frame with head-heavy balance for an exceptionally powerful swing.

**ITEM CODE** VTZF  
**FLEX** Extra Stiff  
**FRAME** H.M. Graphite Sound Filter EX-HMG  
**SHAFT** H.M. Graphite  
**NANOPREMETM**  
**WEIGHT/GRAIN SIZE** 4U (80-84.9g) G4,5  
**3U (85-89.9g) G3,4,5**  
**COLOUR** Bright Green  

Made in Japan

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**VOLTRIC 80**

Thinnest ever shaft with NANOPREMETM providing stiffness, high resilience and explosive power.

**ITEM CODE** VT80  
**FLEX** Stiff  
**FRAME** H.M. Graphite Sound Filter Tungsten  
**SHAFT** H.M. Graphite  
**NANOPREMETM**  
**WEIGHT/GRAIN SIZE** 4U (80-84.9g) G4,5  
**3U (85-89.9g) G3,4,5**  
**COLOUR** White/Cosmic Gold  

Made in Japan

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**VOLTRIC 70**

Thinnest ever shaft with NANOPREMETM providing stiffness, high resilience and explosive power.

**ITEM CODE** VT70  
**FLEX** Medium  
**FRAME** H.M. Graphite Sound Filter Tungsten  
**SHAFT** H.M. Graphite  
**NANOPREMETM**  
**WEIGHT/GRAIN SIZE** 4U (80-84.9g) G4,5  
**3U (85-89.9g) G3,4,5**  
**COLOUR** Brilliant White  

Made in Japan

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**VOLTRIC 60**

Light feel CARBON generates a light feel and flexibility at impact.

**ITEM CODE** VT60  
**FLEX** Flexible  
**FRAME** H.M. Graphite  
**SHAFT** Ultra PEF  
**NANOPREMETM**  
**WEIGHT/GRAIN SIZE** 4U (80-84.9g) G4,5,6  
**COLOUR** Aqua  

Made in Japan

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**Compact Frame**

To balance the heavy racquet head, the frame has been made smaller to maintain the fast swing demanded by advanced players.

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**Light Feel Carbon**

Combining gum particles with carbon fibre generates a light feel and flexibility at impact.
TRI-BUMPER
The first bumper from YONEX that improves the stiffness of the frame and amplifies its power, designed for players seeking greater power from their racquet.

VOLTRIC 50
A heavier, bumper-using racquet for increased stiffness and power.

- ITEM CODE: VT50
- FLEX: Stiff
- FRAME: Graphite
- SHAFT: H.M. Graphite
- WEIGHT/Grip SIZE: 4U (80-84.9g) G4,5
- COLOUR: Pearl Red/White
- Made in Taiwan

VOLTRIC 9
TRI-VOLTAGE SYSTEM and SOUND FILTER give a solid feel for advanced players.

- ITEM CODE: VT9
- FLEX: Stiff
- FRAME: H.M. Graphite
- SHAFT: Sound Filter Tungsten
- WEIGHT/Grip SIZE: 3U (85-89.9g) G3,4,5
- COLOUR: Gloss Blue
- Made in Taiwan

VOLTRIC 7
All-round model for well-balanced repulsion and handling.

- ITEM CODE: VT7
- FLEX: Medium
- FRAME: H.M. Graphite
- SHAFT: Tungsten
- WEIGHT/Grip SIZE: 4U (80-84.9g) G3,4,5
- COLOUR: White
- Made in Taiwan

VOLTRIC 5
Standard model for mid-range players using TRI-VOLTAGE SYSTEM for good racquet handling and power.

- ITEM CODE: VT5
- FLEX: Medium
- FRAME: Graphite
- SHAFT: Tungsten
- WEIGHT/Grip SIZE: 3U (85-89.9g) G3,4,5
- COLOUR: Blue
- Made in Taiwan

VOLTRIC 3
TRI-VOLTAGE SYSTEM for speedy racquet handling.

- ITEM CODE: VT3
- FLEX: Medium
- FRAME: Graphite
- SHAFT: H.T. Graphite
- WEIGHT/Grip SIZE: 3U (85-89.9g) G3,4,5
- COLOUR: Red
- Made in Taiwan

VOLTRIC 110
NEW DESIGN

- ITEM CODE: VT110
- FLEX: Stiff
- FRAME: Graphite
- SHAFT: Tungsten
- WEIGHT/Grip SIZE: 4U (80-84.9g) G3,4,5
- COLOUR: White
- Made in Taiwan

VOLTRIC 100
NEW DESIGN

- ITEM CODE: VT100
- FLEX: Stiff
- FRAME: Graphite
- SHAFT: Tungsten
- WEIGHT/Grip SIZE: 3U (85-89.9g) G3,4,5
- COLOUR: Blue
- Made in Taiwan

VOLTRIC 500
NEW DESIGN

- ITEM CODE: VT500
- FLEX: Stiff
- FRAME: Graphite
- SHAFT: Tungsten
- WEIGHT/Grip SIZE: 4U (80-84.9g) G3,4,5
- COLOUR: White
- Made in Taiwan

VOLTRIC 900
NEW DESIGN

- ITEM CODE: VT900
- FLEX: Stiff
- FRAME: Graphite
- SHAFT: Tungsten
- WEIGHT/Grip SIZE: 3U (85-89.9g) G3,4,5
- COLOUR: Blue
- Made in Taiwan
**MUSCLE POWER 7**
- **FLEX**: Medium
- **FRAME**: Aluminium
- **SHAFT**: Graphite
- **WEIGHT/GRIIP SIZE**: 2U (90-94.9g) G4
- **COLOUR**: White/Navy
- Made in China

**MUSCLE POWER 5**
- **FLEX**: Stiff
- **FRAME**: Aluminium
- **SHAFT**: Steel
- **WEIGHT/GRIIP SIZE**: 3U (95-99.9g) G4,5
- **COLOUR**: Silver/Orange
- Made in China

**MUSCLE POWER 3**
- **FLEX**: Medium
- **FRAME**: Aluminium
- **SHAFT**: Graphite
- **WEIGHT/GRIIP SIZE**: 2U (90-94.9g) G4
- **COLOUR**: White/Grey
- Made in China

**MUSCLE POWER 2**
- **FLEX**: Stiff
- **FRAME**: Aluminium
- **SHAFT**: Steel
- **WEIGHT/GRIIP SIZE**: 3U (95-99.9g) G4,5
- **COLOUR**: Yellow, Turquoise
- Made in China

**MUSCLE POWER FRAME** gives high repulsion power and sharp shots.

**ISOMETRIC POWER**
- **FLEX**: Stiff
- **FRAME**: Graphite
- **SHAFT**: Graphite
- **WEIGHT/GRIIP SIZE**: 3U (85-89.9g) G4,5
- **COLOUR**: Black/Yellow
- Made in China

**ISOMETRIC LITE**
- **FLEX**: Medium
- **FRAME**: Graphite
- **SHAFT**: Graphite
- **WEIGHT/GRIIP SIZE**: 3U (85-89.9g) G4,5
- **COLOUR**: White/Gold, White/Silver
- Made in China

**BASIC 700MDM**
- **FRAME**: MEGA
- **SHAFT**: Steel
- **WEIGHT/GRIIP SIZE**: 4U (95-99.9g) G4
- **COLOUR**: White/Red, White/Black
- Made in China

**MUSCLE POWER FRAME for high-level control.**

**MUSCLE POWER FRAME with carbon shaft gives high levels of repulsion.**
**B-SERIES**

**Training & Junior**

**BASIC 60001**
- ISO-METRIC with large sweet spot for power and distance.
- Made in China

**BASIC 5000**
- Standard model for light, easy handling.
- Made in China

**ARCSABER 001 JUNIOR**
- Full graphite, game improvement racquet offering a solid feel and match-like playability.
- Made in Taiwan

**MUSCLE POWER 2 JUNIOR**
- A shorter junior racquet for easy handling.
- Made in China

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**NEW DESIGN**

**ARC-FB, ARC-ZS, VT2F**
- ARC1, ARC08FL, ARC7, ARC009DX, ARC009DX, ARC05, NR300, NR700, NR700FX, NR500, NR300, NR100, NR80, VT80, VT70, VT50, NS9000

**ARCSABER CARBONEX**
- Power

**NANOCORE VOLTRIC**
- Control

**ARCSABER CARBONEX**
- Head-Light

**NANOCORE VOLTRIC**
- Head-Heavy

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**Selector**

**NR300, NR100, NR80, VT80, VT70, VT50, NS9000**
- @ Main Start
- @ Cross Start
- @ Cross Tie off
- @ Main Tie off

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The mesh cover assists shot development by adding air resistance to your swing. This improves strength and gives you the ability to deliver more powerful shots.

**NEW DESIGN**

**NEW DESIGN**

**NEW DESIGN**

**NEW DESIGN**

**NEW DESIGN**

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## Racquet Specifications

### Nanospeed

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<th>ArcShape</th>
<th>Colour</th>
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<th>Shaft</th>
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Racquet Technology

Frame Technology

ISOMETRIC™

ISOMETRIC™ technology was invented by YONEX to maximize the ideal sweet spot area, and is now a world leading feature of our racquets. The square shaped head of the racquet means that there are more strings crossing at right angles, resulting in a bigger sweet spot. YONEX continues to develop and enhance ISOMETRIC power, reducing still further the ‘hit’ area around the edge of conventional racquets, creating a far bigger sweet spot than other frames.

TOUGHLEX

YONEX’s new material resin - TOUGHLEX - on both sides of the frame offers improved flexibility, durability and shockless. It also provides a softer feel because of its lightweight resin and lighter weight. This will allow deeper shots towards the back of the opponent’s court allowing much more aggressive counter-strike.

ULTRA SLIM LONG SHAFT

The slim long shaft is thinner and enables improved manoeuvrability.

NANOMIC + CARBON NANTOTUBE

New from YONEX - NANOMIC + CARBON NANTOTUBE - is an exclusive structure of material inserted into the frame and shaft of the ISOMETRIC series. It significantly improves the racquet’s power, toughness and impact strength within the racquet. By combining Carbon Nanotube with a resin of low modulus, the molecules create a mesh-like construction which delivers a lightweight racquet, sharper drive shots, improved strength and faster handling.

SOUL FEEL CORE

The built-in Solid Feel Core4 is made of composite resin, providing a larger sweet spot area and is now a world leading feature of our racquets. The square shaped head of the racquet means that there are more strings crossing at right angles, creating a far bigger sweet spot than other frames.

THE LSC (Low Shock Core System) minimizes impact shock through the inherent shock-absorbing properties of Elastomer. Arm comfort is significantly improved and shock impact is reduced to 15% less than that experienced with a conventional racquet.

NEW Grommet Pattern

The single-piece grommet hole construction provides more grommet holes for a more high-performance striking pattern.

LSC SYSTEM

The LSC (Low Shock Core System) minimizes impact shock through the inherent shock-absorbing properties of Elastomer. Arm comfort is significantly improved and shock impact is reduced to 15% less than that experienced with a conventional racquet.

NANOAIR SPRING

Nanofibre springs in the neck bind the carbon fibres so that nanofibre air bubbles in the material help the racquet to flex and bend as in a spring. This results in a wider transfer of energy from string-bed to shuttle for a more powerful hit.

Shaft Technology

ULTRA SLIM LONG SHAFT

THE THINNEST EVER WITH MORE POWER

VTZF and VT80 are more stable compared to conventional racquets due to the presence of NANOPREME in the shaft. When bending and releasing two racquets under the same force, the VTZF and VT80 racquets rebound almost twice as far as a conventional racquet does in the same length of time (0.089 seconds). This equates to 10% greater stability from the VTZF and VT80 compared to conventional racquets.

期末报告

A. In comparison to the frame of a conventional racquet, the DX frame features a wider handle as that impact shock is reduced by distributing impact force over a larger area.

B. The DX Frame is also thicker and able to stretch like a spring under pressure from above. This allows shock absorption to be improved over the whole frame, preventing distortion to the structure.

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**DURABILITY**

ES5 PROTECH Strings

Extra fine string. Performance from an advanced material composed of a nylon outer provides sharp feel and high repulsion.

**HIGH REPULSION**

- MultiFilament/Vectran
- The combination of advanced materials composed of high-intensity nylon multifilament core and high-elasticity enhances high repulsion power.

**HIGH HITTING SOUND**

- MultiFilament/Vectran
- Provides not only a sharp feel at impact but also a clear hitting sound.

**CONTROL**

- High-Intensity Nylon
- Provides the perfect balance of maximum repulsion power and a clear hitting sound.

**DURABILITY**

- High-Intensity Nylon
- Strong multifilament core.

**HIGH REPULSION**

- MultiFilament
- The high-modulus Vectran fibre is an advanced material wrapped around a high-intensity nylon multifilament core.

**HIGH HITTING SOUND**

- MultiFilament/Hydro Titanium
- Compound titanium hydride coating provides not only a sharp feel at impact but increased durability.

**CONTROL**

- High-Intensity Nylon
- Provides the perfect balance of maximum repulsion power and a clear hitting sound.

---

**YONEX Stringing Team**

Worldwide support to the world’s top-players

The YONEX Stringing Team is proud to support the world’s top players at all the major tournaments. Our stringers work constantly during every tournament making sure that players’ racquets are precisely strung so they perform at their best.
Shuttlecocks

YONEX technology delivers outstanding stability in flight

Every shuttlecock produced by YONEX is meticulously inspected to ensure consistently fast recovery and accurate flight stability over distance.

Feather Shuttlecocks

Since 1965 YONEX has developed and manufactured shuttlecocks. YONEX shuttlecocks are steeped in tradition and widely accepted as the best in badminton. In 1981 YONEX was appointed as the official shuttlecock provider to the 9th Uber Cup. Since then YONEX has gone on to be appointed as the official provider of shuttlecocks to a number of international federations and world renowned badminton tournaments including: The All England Open Badminton Championships and BWF World and Junior Championships.

The durability and performance of each shuttlecock is the driving force behind our partnerships with many international federations and tournaments. Each shuttlecock is carefully assembled in Japan by our expert craftsmen using only the finest materials. Once assembled, each individual shuttlecock is inspected for ten different aspects in order to ensure consistency of flight trajectory, accuracy and distance in all temperatures. This level of care and attention delivers consistent quality, making it the choice for many of the world’s best players.

The YONEX Shuttlecock is the official shuttlecock of these international tournaments in 2013:

Badminton Europe Events
- European Mixed Team Championships

Superseries Premier
- YONEX All England Open Badminton Championships
- Indonesia Open
- YONEX Denmark Open

Superseries
- Malaysia Badminton Open
- YONEX-SUNRISE India Open
- YONEX OPEN JAPAN
- YONEX French Open
- YONEX-SUNRISE Hong Kong Open

Nylon Shuttlecocks

Developed using the flight timing of feather shuttlecocks, MAVIS Nylon Shuttlecocks are precision designed and manufactured to provide accurate flight performance.

Players should always use the shuttlecocks best suited to the playing environment.

The hardness of the skirt – the feather part of the nylon shuttlecock – varies depending on temperature.

* Please store the shuttlecocks away from high temperatures and keep the tube upright with the cork side of the shuttlecock facing down.
Footwear Technology

YONEX footwear uses the most advanced materials and technology to ensure absolute comfort and performance during each and every point.

Double Russel Mesh

Double Russel Mesh is an ultra fine mesh that is extremely lightweight and durable. It provides eight times more air exchange for releasing moisture than ordinary mesh fabric.

Lateral Claw & Lateral Shell

The Lateral Claw prevents the foot from sliding within the shoe. The Lateral Shell located on the outside of the forefoot prevents sliding at the edge of the sole. These technologies reduce power loss, increase footwork response and create smooth, fluid and offensive foot movements.

Power Cushion

Lightweight shock absorption promotes comfort and helps prevent injury.

The YONEX Power Cushion absorbs shock then reverses the impact energy for smooth transfer into the next movement. Compared with urethane, the YONEX Power Cushion construction provides 3 times more shock absorbing power.

3-Layer POWER CUSHION

The hard top and bottom layers absorb 30% more shock than our original Power Cushion and provide 5% more repulsion for enhanced transfer of energy. The soft middle layer quickly returns to its original shape after receiving a shock load, converting the shock energy into power for fast and light footwork.

Power Graphite Sheet

A graphite plate is inserted under the middle portion of the foot to increase stability and reduce weight within the shoe.

ToughBraid

ToughBraid molecules are arranged in a more stable alignment, which provides greater elasticity and shape retention. As a result, the shoe continues to provide a high level of cushioning performance for longer, even under the stresses of fast, high-impact footwork. Payers can now enjoy maximum comfort on court and reduce physical fatigue to achieve superior footwork.

ToughBraid Light

ToughBraid Light retains the exact performance as ToughBraid yet is 11% lighter, generating a significant reduction in leg and knee stress.

Hexagrip

For agile and stable footwork, the Hexagrip pattern provides 3% more grip and is 20% lighter than standard sole material.
### Footwear

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<th>Image</th>
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<td>SHB-01MX</td>
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<td>Excellent stability and durability with Quattro Fit for men</td>
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<td>Ultimate cushioning with low-cut men’s design</td>
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<td>SHB-86EX</td>
<td><img src="image7.png" alt="Image" /></td>
<td>Low-cut basic model with high cushioning</td>
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<td>SHB-44EX</td>
<td><img src="image8.png" alt="Image" /></td>
<td>Basic model with comfortable soft fit</td>
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<td><img src="image9.png" alt="Image" /></td>
<td>Gentle on feet and joints for junior players</td>
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<tr>
<td>SHB-74EX</td>
<td><img src="image10.png" alt="Image" /></td>
<td>Comfortable soft fit with lightweight low-cut design</td>
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#### Outsole Structure and Verification

**Outsole Structure**

- **Winding channel**: Supports smooth sideways movement for a softer response.
- **Extensive analysis of foot movement**: Yonex scientists have resulted in an improved close fit and better cushioning for smoother and quicker footwear.

### Footwear Technology

- **Power Cushion**
- **Ergoshape**
- **Round Sole**
- **Quattro Fit**
- **Double Russel Mesh**
- **P.U. Leather, Polyester Mesh**
- **Toughguard Light, Round Sole**
- **Power Cushion (3-Layer)**
- **Power Cushion (2-Layer)**
- **Power Graphite**
- **Synchro-Fit Insole**
- **Ergoshape**
- **Hexagrip Sole**
- **Lateral**
- **Round**
- **Power Cushion lite, Double Russel Mesh**
- **Made in China/Vietnam**

### Footwear Specifications

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<th>Model</th>
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<td>Double Russel Mesh, Power Cushion</td>
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<td>Made in China</td>
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<tr>
<td>SHB-86EX</td>
<td>P.U. Leather, Polyester Mesh, Solid E.V.A.</td>
<td>Touchguard Light, Round Sole, Power Cushion, T.P.U.</td>
<td>Rubber</td>
<td>White/Black</td>
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<td>SHB-44EX</td>
<td>P.U. Leather, Polyester Mesh, Solid E.V.A.</td>
<td>Touchguard Light, Round Sole, Power Cushion, T.P.U.</td>
<td>Rubber</td>
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<td>Made in China</td>
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<td>SHB01JREX</td>
<td>P.U. Leather, Polyester Mesh</td>
<td>Touchguard Light, Round Sole, Power Cushion, T.P.U.</td>
<td>Rubber</td>
<td>White</td>
<td>Made in China</td>
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</tbody>
</table>

*Country of manufacture may differ.*

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yonex.com 43
**Bags**

Whether you prefer wheeling a trolley bag, carrying a holdall or wearing a rucksack, YONEX’s bags are tailored with the comfort of each individual player in mind. Our bag selection echoes your versatility on the court; carry up to nine racquets or simply a spare pair of trainers.

### PRO SERIES

- **BAG9332EX - Pro Trolley Bag**
  - Colour: Black
  - Size: 80x36x34
  - Made in Cambodia

- **BAG9331EX - Pro Medium Sized Boston Bag**
  - Colour: Metallic Blue
  - Size: 55x26x28
  - Made in Cambodia

- **BAG9331WEX - Pro Tournament Bag**
  - Colour: Metallic Blue
  - Size: 75x18x33
  - Made in Cambodia

- **BAG9326BEX - Pro Racquet Bag (6PCS)**
  - Colour: Metallic Blue
  - Size: 76x22x30
  - Made in Cambodia

- **BAG9330EX - Pro Tour Bag**
  - Colour: Metallic Blue
  - Size: 80x33x33
  - Made in Cambodia

- **BAG9329EX - Pro Racquet Bag (9PCS)**
  - Colour: Black/Red, Black/Lime Green, Metallic Blue
  - Size: 78x36x34.5
  - Made in Cambodia

- **BAG9312EX - Pro Backpack**
  - Colour: Metallic Blue, Black/Red
  - Size: 34x20x50
  - Made in Cambodia

- **BAG7329EX - Racquet Bag (9PCS)**
  - Colour: Red, Blue, Magenta, Black/Yellow
  - Size: 79x30x36
  - Made in Taiwan

- **BAG7326EX - Racquet Bag (6PCS)**
  - Colour: Red, Blue, Magenta, Black/Yellow
  - Size: 77x22x35
  - Made in Taiwan

- **BAG7331WEX - Tournament Bag**
  - Colour: Black
  - Size: 75x18x32
  - Made in Taiwan

---

Shoes can be packed away in the bag.

Can be used as a rucksack for easy transport.

Shoes can be packed away from the top of the bag.
**Bags**

TOURNAMENT BASIC SERIES

- **BAG7323EX** - Racquet Bag (3PCS)
  - Colour: Red, Blue, Magenta, Black/Yellow
  - Size: 77x33x32
  - Made in Taiwan

- **BAG7312EX** - Backpack
  - Colour: Black/Yellow, Black/Magenta
  - Size: 34x18x40
  - Made in Taiwan

TOURNAMENT ACTIVE SERIES

- **BAG8329EX** - Racquet Bag (9PCS)
  - Colour: Red, Lime Green, Turquoise
  - Size: 75x33x32
  - Made in Taiwan

- **BAG8328EX** - Racquet Backpack
  - Colour: Red, Black
  - Size: 35x20x72
  - Made in Taiwan

- **BAG8326EX** - Racquet Bag (6PCS)
  - Colour: Red, Lime Green, Turquoise
  - Size: 75x22x32
  - Made in Taiwan

CLUB SERIES

- **BAG5326EX** - Racquet Bag (6PCS)
  - Colour: Black/Silver, Turquoise/Black, Black/Red
  - Size: 75x22x32
  - Made in Taiwan

- **BAG5323EX** - Racquet Bag (3PCS)
  - Colour: Black/Silver, Turquoise/Black, Black/Red
  - Size: 75x22x32
  - Made in Taiwan

**Clothing**

YONEX 2013 range of Clothing has been designed to meet the requirements of today’s game. By using the latest fabric technology, our clothing for men and women allows you to perform at your best, whatever the court condition.

- **BAG8329EX** - Racquet Bag (9PCS)
  - Colour: Red, Lime Green, Turquoise
  - Size: 75x33x32
  - Made in Taiwan

- **BAG8328EX** - Racquet Backpack
  - Colour: Red, Black
  - Size: 35x20x72
  - Made in Taiwan

- **BAG8326EX** - Racquet Bag (6PCS)
  - Colour: Red, Lime Green, Turquoise
  - Size: 75x22x32
  - Made in Taiwan

**MEN’S CLOTHING**

- **12063EX** Men’s Polo Shirt
  - Colour: Corn Yellow, Black
  - Material: 100% Polyester
  - Made in China

- **10098EX** Men’s Polo Shirt
  - Colour: Black, Crystal Red
  - Material: 100% Polyester
  - Made in China

**Stay clean and fresh on court**

The antibacterial liquid prevents bacteria breeding that can cause clothes to smell. Securing the matter deep within the fibers of the material maintains its effectiveness even after repeated washing.

**Avoid the discomfort from Static Electric**

Carbon impregnated, conductive fibres, woven into the stitch of the clothing remove the build-up of static electricity therefore avoiding discomfort when changing your clothes.
**MEN’S CLOTHING**

- **12064EX**
  - Men’s Polo Shirt
  - Colour: Deep Blue
  - Material: 100% Polyester
  - Made in China

- **10099EX**
  - Men’s Polo Shirt
  - Colour: White
  - Material: 100% Polyester
  - Made in China

- **15022EX**
  - Men’s Shorts
  - Colour: Black
  - Material: 100% Polyester
  - Made in China

- **15023EX**
  - Men’s Shorts
  - Colour: White
  - Material: 100% Polyester
  - Made in China

- **15024EX**
  - Men’s Shorts
  - Colour: Black
  - Material: 100% Polyester
  - Made in China

- **15025EX**
  - Men’s Shorts
  - Colour: Crystal Red
  - Material: 100% Polyester
  - Made in China

- **16153EX**
  - Men’s Shirt
  - Colour: Corn Yellow, Black
  - Material: 100% Polyester
  - Made in China

- **16154EX**
  - Men’s Shirt
  - Colour: Black
  - Material: 100% Polyester
  - Made in China

- **12065EX**
  - Men’s Sleeveless Shirt
  - Colour: Deep Blue
  - Material: 100% Polyester
  - Made in China

- **10101EX**
  - Men’s Sleeveless Shirt
  - Colour: White
  - Material: 100% Polyester
  - Made in China

**WOMEN’S CLOTHING**

- **20169EX**
  - Women’s Polo Shirt
  - Colour: Corn Yellow, Black, Deep Blue
  - Material: 100% Polyester
  - Made in China

- **20170EX**
  - Women’s Polo Shirt
  - Colour: Black, Crystal Red, White
  - Material: 100% Polyester
  - Made in China

- **20171EX**
  - Women’s Dress
  - Colour: Black, Crystal Red, White
  - Material: 100% Polyester
  - Made in China

- **26012EX**
  - Women’s Skirt
  - Colour: Black, White
  - Material: Body - 100% Polyester, Inner Short - 92% Polyester 8% Polyurethane
  - Made in China

- **26013EX**
  - Women’s Skirt
  - Colour: Black
  - Material: Body - 100% Polyester, Inner Short - 92% Polyester 8% Polyurethane
  - Made in China

- **20171EX**
  - Women’s Dress
  - Colour: Black, Crystal Red, White
  - Material: 100% Polyester
  - Made in China
Grip Tape Accessories

**Grip Tape Technology**

- **AC143-3EX Tacky Fit Grip**
  - Even in rainy or humid conditions, the tacky fit grip returns excellent performance. New grip technology retains tacky feel longer and prevents slipping even with a sweaty grip.

1. Extra ventilation from square sections absorbs and spreads the sweat faster.
2. Special hybrid additives with unithane for a tackier feel.

**Managing Your Grip**

- **WAVE GRIP**
  - High Comfort Fit.
  - Made in Taiwan
  - Thickness: 0.65 mm
  - Length: 1,200 mm
  - Width: 25 mm

- **NEW DESIGN**
  - For Standard & Long Racket.
  - Made in Taiwan
  - Thickness: 0.6 mm
  - Length: 1,200 mm
  - Width: 25 mm

**Wrist Bands & Head Bands**

- **WRIST BAND AC488EX**
  - Printed Cotton/Nylon
  - Colour: Black, White
  - Made in Taiwan

- **WRIST BAND (PAIR) AC489EX**
  - Mixed Colour
  - Colour: White, Black, Navy Blue, Yellow, Orange, Red
  - Made in Taiwan

**Other Accessories**

- **STENCIL INK AC414EX**
  - Colour: Red, Black
  - Made in Taiwan

- **STENCIL CARD AC418EX**
  - Colour: Red, Black
  - Size: 30ml
  - Made in USA

**Towels**

- **SPORTS TOWEL AC1102EX**
  - Material: 100% Cotton
  - Colour: Red, Blue
  - Size: 45x100 cm
  - Made in Taiwan

**Shower Towel**

- **SHOWER TOWEL AC7055WEX**
  - Material: 100% Cotton
  - Colour: White
  - Size: 70x120 cm
  - Made in Taiwan
<table>
<thead>
<tr>
<th>Men's Singles</th>
<th>Women's Singles</th>
<th>Men's Doubles</th>
<th>Women's Doubles</th>
<th>Mixed Doubles</th>
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<td><strong>LEE CHONG WEI (MAS)</strong></td>
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<td>2012 YONEX Denmark Open: Winner</td>
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<td>YONEX OPEN JAPAN: Winner</td>
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<td>2012 Olympics: Silver Medalist</td>
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<td><strong>TAUFIK HIDAYAT (INA)</strong></td>
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<td>2012 YONEX OPEN JAPAN: Quarterfinalist</td>
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<tr>
<td>Swiss Open Grand Prix Gold: Semifinalist</td>
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<td>YONEX All England Open Badminton Championships: Quarterfinalist</td>
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<td><strong>SIMON SANTOSO (INA)</strong></td>
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<td>Indonesia Open Superseries Premier: Winner</td>
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<td>YONEX German Open: Runner-up</td>
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<td><strong>DAREN LIEW (MAS)</strong></td>
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<td>2012 YONEX French Open: Winner</td>
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<td><strong>SAINA NEHWAL (INA)</strong></td>
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<td>2012 BWF Superseries Finals: Semifinalist</td>
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<td>China Open Superseries Premier: Runner-up</td>
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<td><strong>TONTOWI AHMAD &amp; LILYANA NATSIR (INA)</strong></td>
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<td>2012 YONEX-SUNRISE India Open Superseries: XD Winner</td>
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