



ENGINEERING
TENNIS

ANDREAS SEPPI

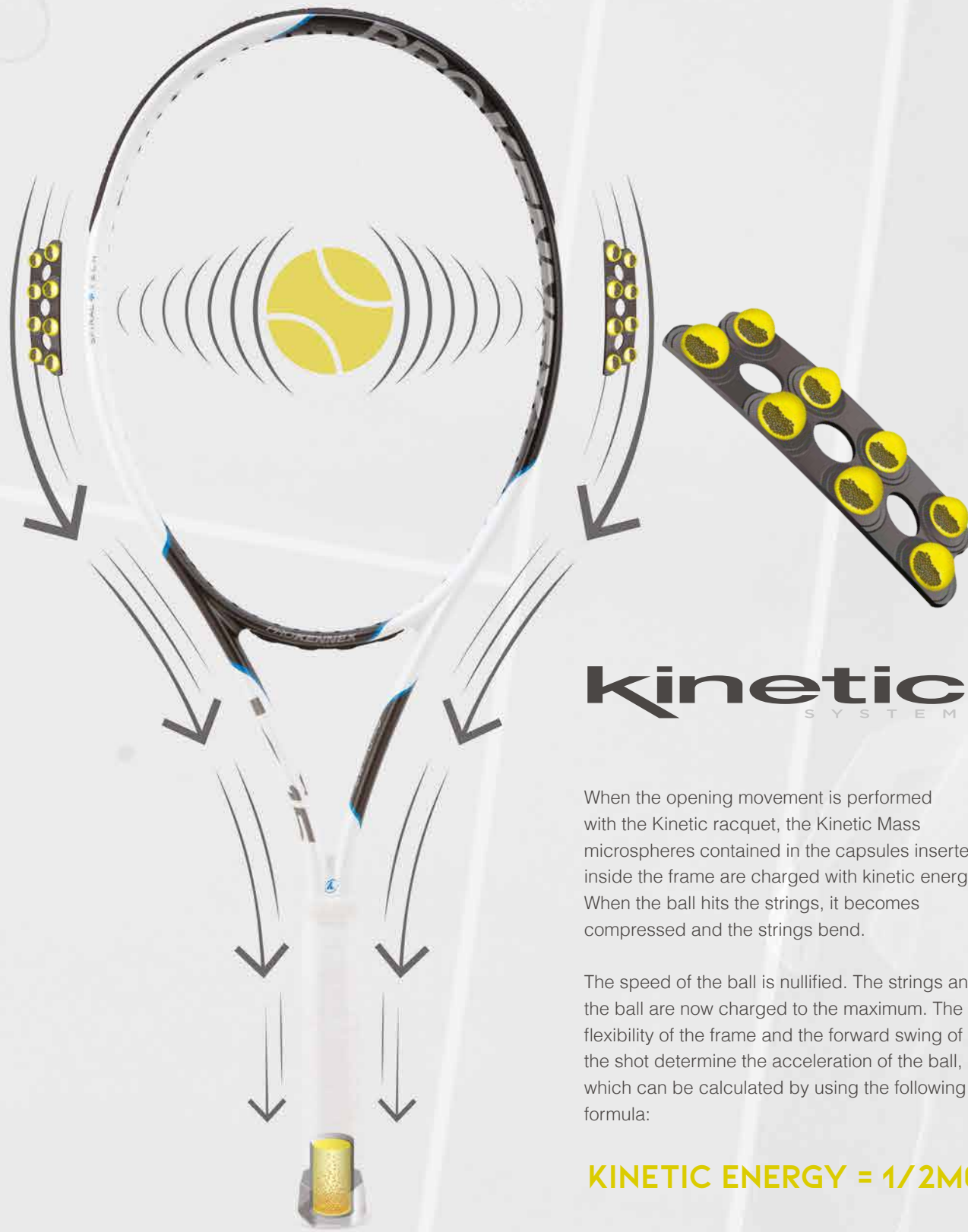
WE HAVE NEVER STOPPED
DESIGNING **THE FUTURE OF TENNIS.**

Ever since 1976, we have been inspired by evolution,
going beyond the state of the art and improving
the value of your performance,
thanks to new technologies.

PROKENNEX
TOMORROW'S TECHNOLOGIES.

RACKETS ENGINEERING
OUR TECHNOLOGIES

$$1/2m(v^2)$$

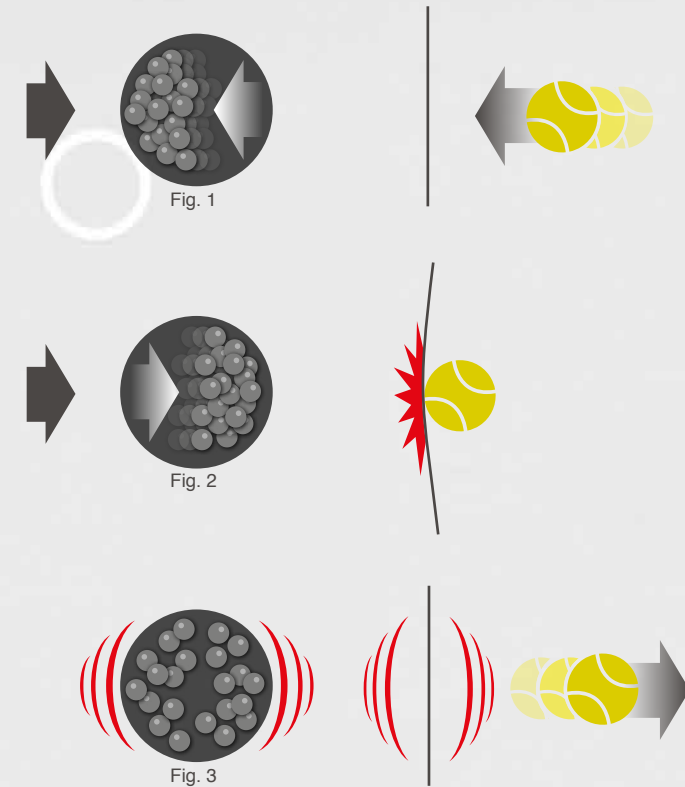


kinetic
 SYSTEM

When the opening movement is performed with the Kinetic racquet, the Kinetic Mass microspheres contained in the capsules inserted inside the frame are charged with kinetic energy. When the ball hits the strings, it becomes compressed and the strings bend.

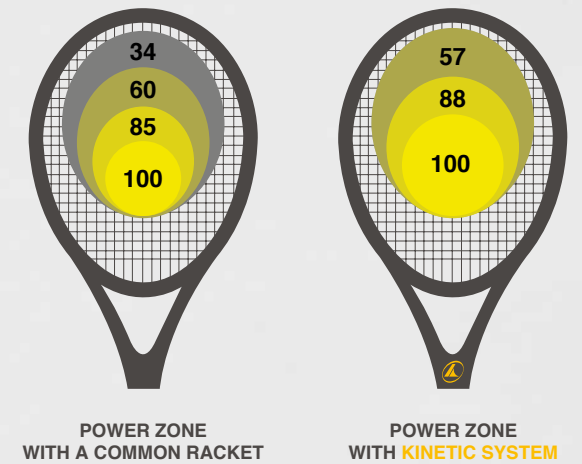
The speed of the ball is nullified. The strings and the ball are now charged to the maximum. The flexibility of the frame and the forward swing of the shot determine the acceleration of the ball, which can be calculated by using the following formula:

$$\text{KINETIC ENERGY} = 1/2M(V^2)$$



The sum of the hitting speed, the energy released by the strings and the decompression of the ball determine the output speed of the ball. In the Kinetic racquet, the energy released by the Kinetic Mass contained in the capsules is also added to that output speed.

This increase in added mass increases the usable area of the stringbed, facilitating the success of a good shot.



ACTIVE DAMPING SYSTEM

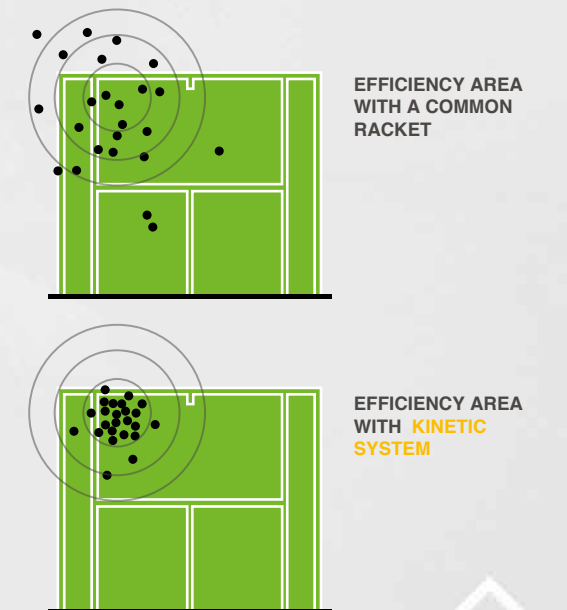
Do you know what your arm feels after you have hit the ball? The "return" of the vibrations.

The Kinetic System completely eliminates all these sensations. Once the ball leaves the racquet strings, the Kinetic mass microspheres move, using all the energy left in the frame. You will notice a pleasant feeling of comfort while playing and a drastic reduction in fatigue and in stress in your arm, with an increase in the precision and power of your game. Immediately after the ball leaves the racquet strings, flexibility is activated.

EFFICIENCY AREA

The Kinetic System increases the percentage of well-played shots, freeing you from the worry of having to hit the ball with the centre of the racquet only. When the Kinetic capsules release their energy to the frame, the entire stringbed becomes stable and your shot will be more precise and powerful even if you do not hit the ball in the centre.

The transfer of Kinetic Mass energy determines the efficiency area. The Kinetic system makes the entire stringbed of the racquet homogeneous, making off-centre hits effective too, because it cancels the twisting of the frame and optimises the direction of the ball. By hitting the ball in the centre of the sweet spot, the power is truly extraordinary.



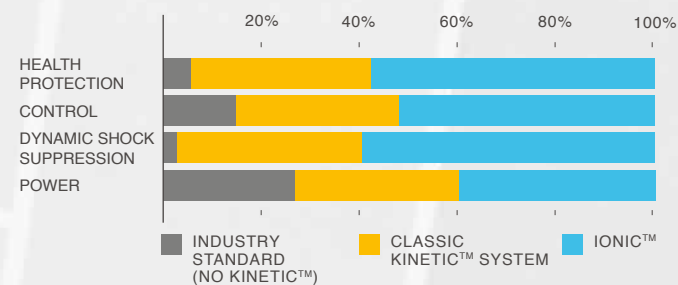
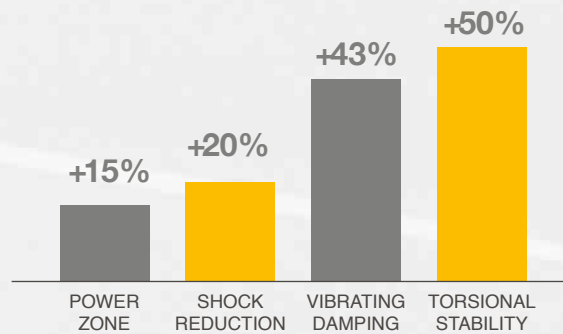
PK2024

PACKETS ENGINEERING
OUR TECHNOLOGIES 1/2014



Prokennex puts turbo-power into the Kinetic System with the use of Jetron: Ionic Technology is born. The Kinetic mass contained within the capsules in static conditions (stationary racket) have an equal number of positive and negative charges that produce a stable electrical environment. When the racquet is moved, the Kinetic mass and the capsule walls are charged with electrostatic energy. These charges exert great forces (like powerful magnets) on the Kinetic mass, which repel each other, attract each other or cling to the capsule walls. This situation reduces the potential of the Kinetic System.

Prokennex's Ionic™ technology has found a solution for eliminating electrostatic charges. Through Ionic technology, electrostatic charges are neutralised. These anti-shock ionizers are induced to produce a large quantity of negative and positive ions. The surfaces charged with electrostatic energy attract the appropriate number of positive or negative ions from the ionizers to themselves, in order to thus become electrically stable. Result: Complete possibility of movement of the Kinetic mass inside the capsules with an increase of over 56% of the efficiency of the kinetic system.



QUAD FOCUS

The latest development of the Kinetic System, the Quadfocus system, rethinks the application of Newtonian physics, by studying new Kinetic Energy Chambers and moving them to the Four Corners of the frame. This moves the cameras away from the most stable area of the frame to the most vulnerable, focusing the energy more effectively. Because the Kinetic technology is based on a system that works with precise timing (like the pistons in an engine), the Quadfocus design makes it possible to position the Kinetic Energy Chambers in the most effective position. The speed of the frame head is much higher and this creates a virtual square in the oval of the racquet, generating a greater sweet spot than a conventional single-mass racquet. The most evident advantage is felt when hitting the ball off-centre, especially in the 10 o'clock and 2 o'clock positions.

The new Q-PLUS series with 25% more kinetic energy.

KINETIC DAMPING CHAMBER

Kinetic Damping Chamber by ProKenneX uses "Mass Displacement" to reduce the residual vibration resulting from the energy of the shock caused when the ball hits the racquet. This anti-vibration system significantly reduces hand and forearm fatigue and quickly stabilizes the frame in its original state. The system consists of a cylinder, perfectly modelled on the body of the frame, filled with inelastic microspheres and integrated into each grip. When the oscillations of the frame reach the chamber, the balls disperse the vibrations through movement and friction.

The technical name for this process is Non-Obstructive Damping Technique, or NOPD. While the Kinetic System increases the performance of the frame, through the "energy transfer" more efficient in tennis, the harmful vibrations that escape the Kinetic System itself are swallowed later by the Kinetic Damping Chamber before reaching the hand. Kinetic technology is an energy management system designed to increase stroke performance and, at the same time, protect the arm from harmful forces leading to injury. The technical name for this process is Non-Obstructive Damping Technique, or NOPD. While the Kinetic System increases the performance of the frame, through the most efficient "energy transfer" in tennis, the harmful vibrations that escape the same Kinetic System are swallowed up later on by the Kinetic Damping Chamber before reaching the hand. Kinetic technology is an energy management system designed to increase hitting performance and, at the same time, protect the arm from harmful forces that lead to injury.



SPIRAL TECH CARBON

Prokennex creates the new mixture of ProKenneX Spiral Tech Carbon materials, the evolution of Graphite. It is a unique blend of Spiral Tech graphite layers and High ModulGra te Normaleus graphite that is applied to get the best performance from the frame.

The Spiral Tech graphite guarantees exceptional absorption qualities to maximize the playability of the frame, while the High Modulus Graphite STC graphite provides the necessary solidity and power. Traditional graphite has space between the layers. In Spiral Tech Carbon, the different graphite modules adhere completely, combining with Nano Epoxy, which guarantee absolute power, playability and control.



Spiral Tech Carbon Production



Conventional Graphite Production



PK2024

TRACKETS ENGINEERING

TECHNICALS

KINETIC SERIES



NEW



RACTONYL

Mix of Ultra High Modulus graphite and fiberglass with in between high tensile carbon fibers.

50% MORE KINETIC MASS

RACTONYL
FRAME
=
MORE POWER

INCREASED
TORSIONAL STIFFNESS
=
MORE CONTROL

+ 50% MORE
KINETIC MASS
=
SUPERIOR SHOCK
ABSORPTION

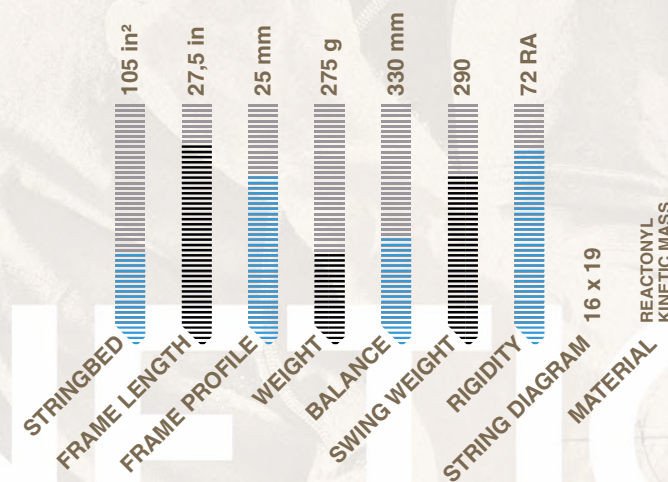


Ki EXTRA

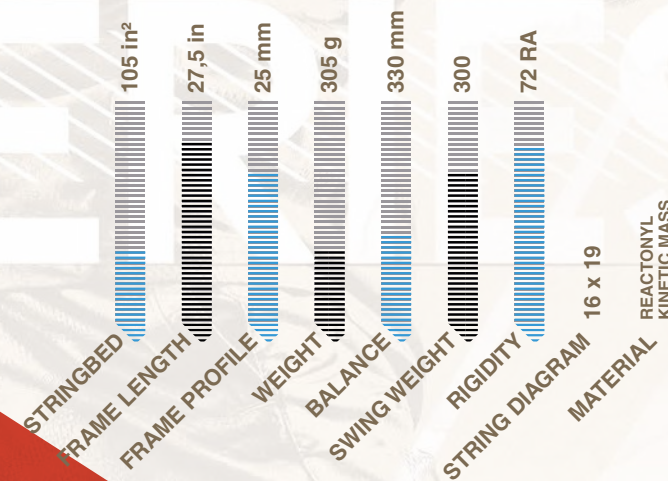
Two very dynamic rackets because of better flow in construction and 50% more Ki-mass than original. For advanced players.



Ki275 EXTRA



Ki305 EXTRA



SPIN MASTER

Ki10

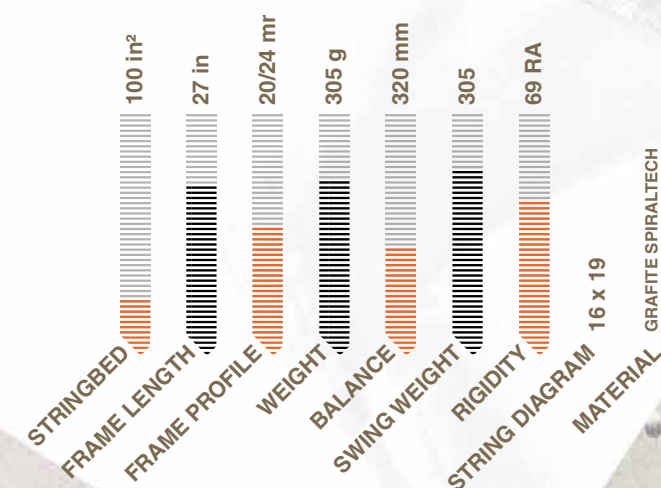
kinetic SYSTEM

SPIRALTECH CARBON

This Frame uses round shaft technology to obtain a very precise and compact racquet that allows you to play both topspin and backspin shots well. The **Kinetic system inside the oval increases the power and stability of the stringbed.**

Suitable for players who like to intensify rotations and push from the baseline.

Ki10



WINNER
INSTINCT

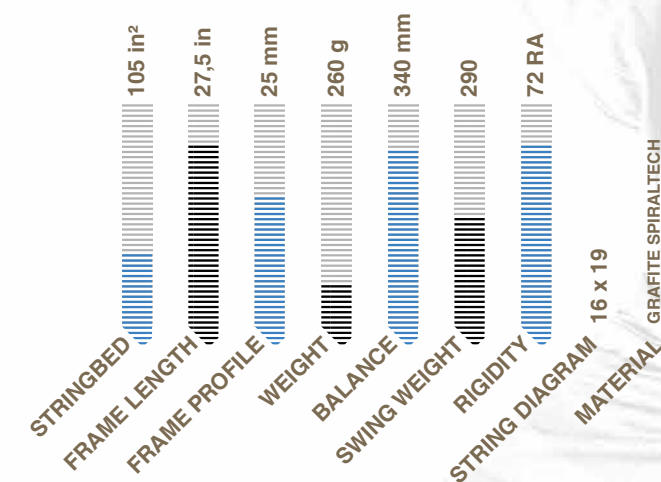
Ki15

kinetic SYSTEM

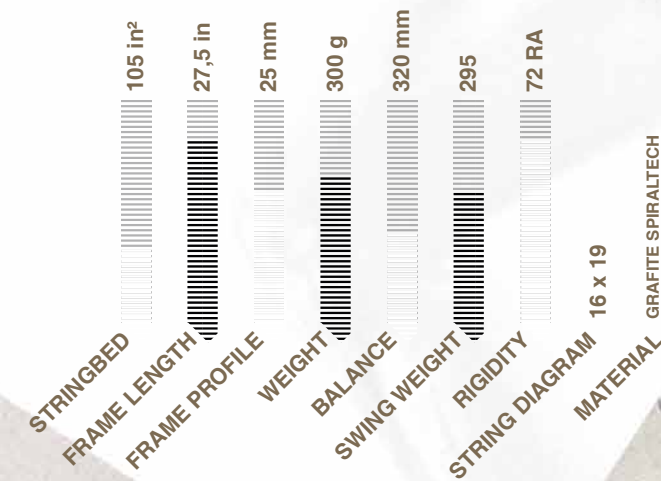
SPIRALTECH CARBON

The unique structure of this racquet, the amount of Kinetic Mass inside the oval and the heavy weight make this frame a deadly weapon for baseline shots. **You can hit the ball with both backspin and topspin without losing control of the trajectories.** The Kinetic Cap makes it comfortable.

Ki15²⁶⁰



Ki15³⁰⁰



TENNIS

RACKET ENGINEERING

Q+ PLUS SERIES



HARDNESS

ENERGY



POWER⁴

Q+15

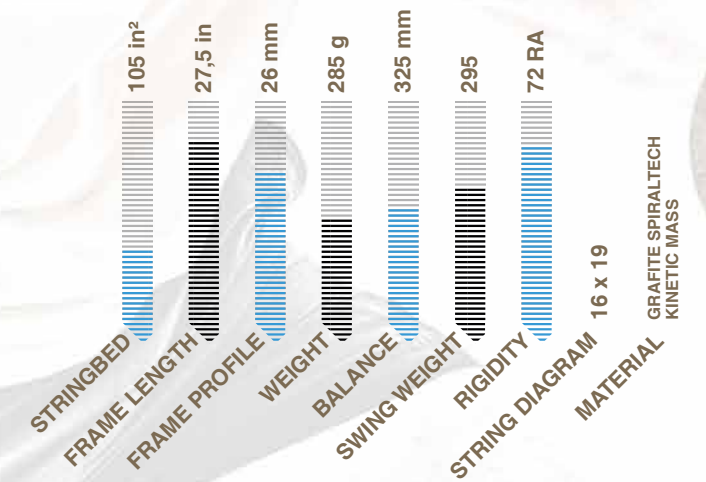
kinetic SYSTEM

SPIRAL Q+ TECH CARBON

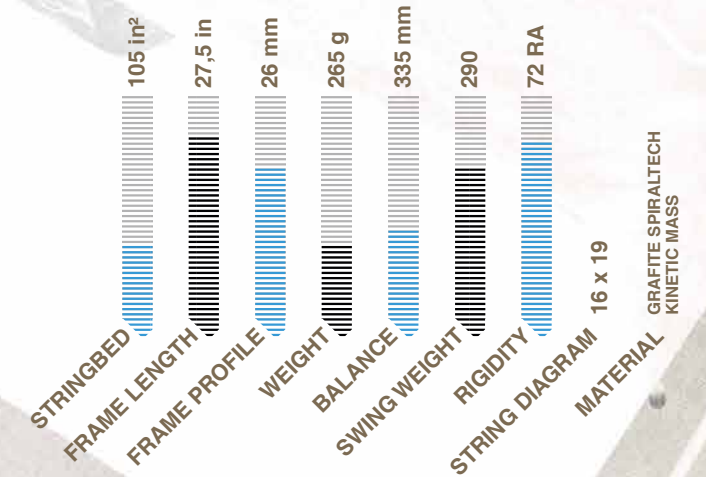
27.5-inch long (long body) heavyweight racquet, but the balance with the handle keeps it manoeuvrable. The longer handle increases its flexibility. All-round racquet that helps in the serve and in recoveries.

The **Q-Plus System** guarantees stability and comfort.

Q+15



Q+15 LIGHT



POWER⁴

Q+20

kinetic SYSTEM



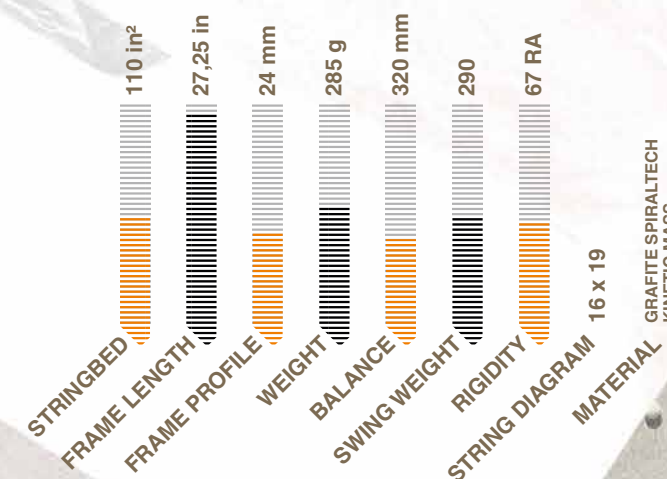
SPIRAL TECH CARBON



Over-size racket with new frame design. The wide impact zone ensures easy and safe impact; the profile, which recalls the shapes of sports frames, allows to effectively use all game variations; the length of 27.25 inches offers greater thrust compared to a standard frame. Handy and suitable, even for technically advanced players, the **Q plus system** helps gain easier depth.

The Kinetic Damping Chamber and the high quantity of kinetic mass within the frame guarantee absolute comfort.

Q+20





**TOMORROW
STARTS HERE,
PLAY
BEYOND.**

Ace Station Operations ProKennex's center for elite performance equipment encompassing all that is possible in frame design to achieve very specific qualities enjoyed by a select group of players.

No expense is spared in concept, design, materials and testing.

ENGINEERING
TENNIS

A. Seppi
ANDREAS SEPPI



FlexLogic

RACQUET SENSE

kinetic

SPIRAL TECH CARBON

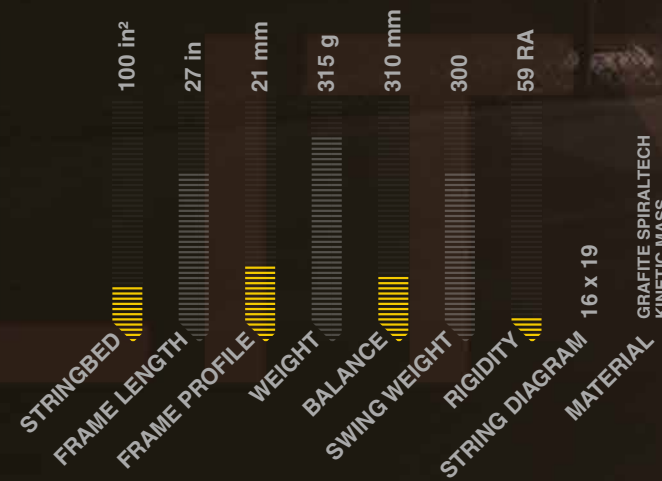
BLACK ACE



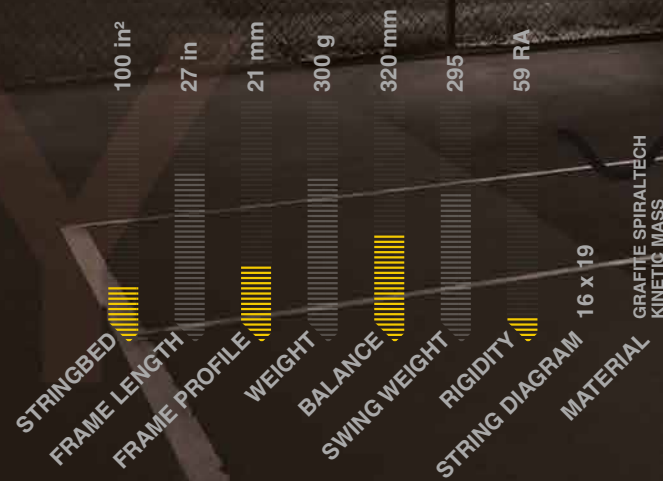
Thanks to its perfect balance between power and flexibility, the professional frame of the Black Ace racket, developed using new materials and updated geometry, gives exceptional quality ball feel, thanks to the Kinetic System. The new nanotechnology of the Spiral Tech graphite filaments ensures extreme flexibility and unprecedented acceleration. The trapezoid shape of the shoulder grows out of the handle in perfect harmony with the oval shape of the head. This geometry allows complete stability of the string bed, giving a clean and effective impact with the ball. By stabilising torsion in the frame, the Kinetic System enhances the player's potential, shot after shot.

Black Ace is designed for players who want to perform at full power without ever sacrificing total control of the racket in terms of precision and manoeuvrability.

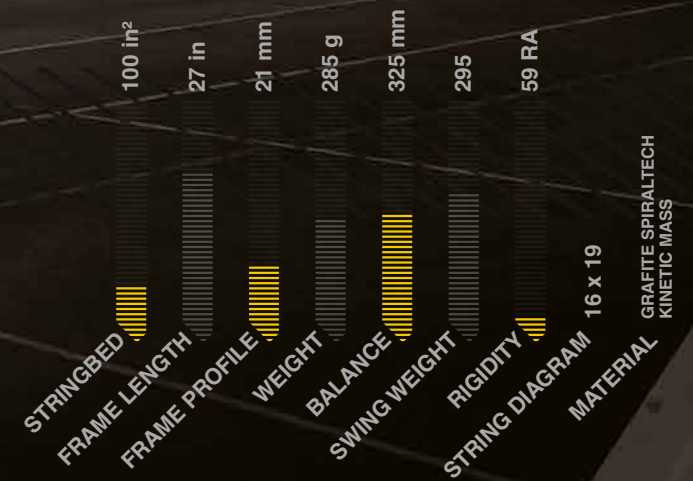
BA 315



BA 300



BA 285



FlexLogic

RACQUET SENSE

kinetic

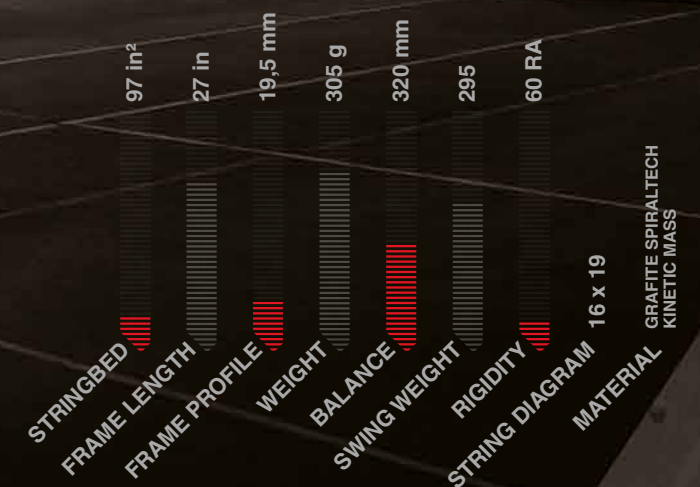
GRAFITE SPIRALTECH CARBON

BLACK ACE PRO

Sports frame with even more extreme features compared to those of Black Ace.

The 97 string bed and the narrow profile guarantee an absolute sensitivity on the ball. Ideal for aggressive players, who play in a modern style and make attack their best defense.

BA PRO



INGENIOUS
S
MMA
RT

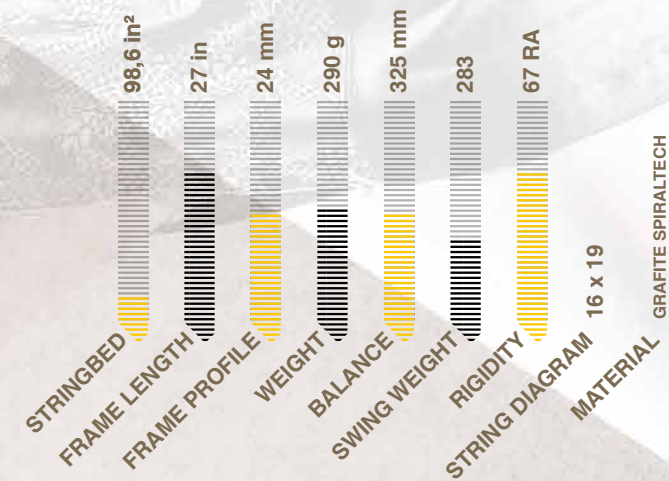


DESTINY

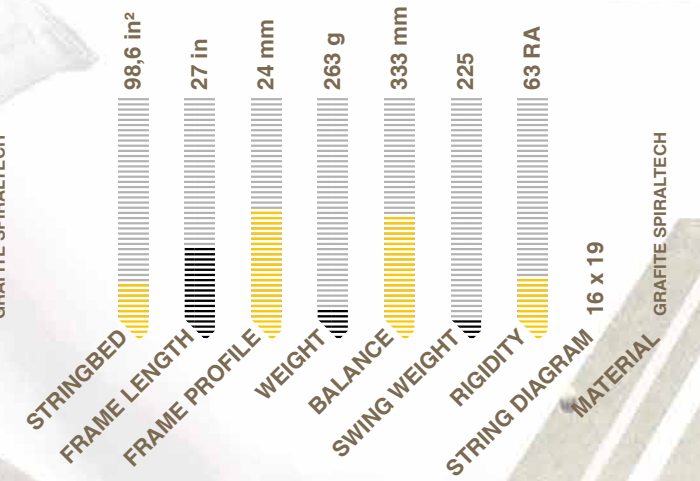
SPIRAL TECH
CARBON

The Destiny series is the first in the world to adopt the **Round Shaft technology** in the heart of the racquet, allowing you to hit the ball making backspin and topspin shots. Its weight makes the racquet particularly suitable for all high-level junior players and for those players who want a good racquet at a fair price.

DESTINY 290



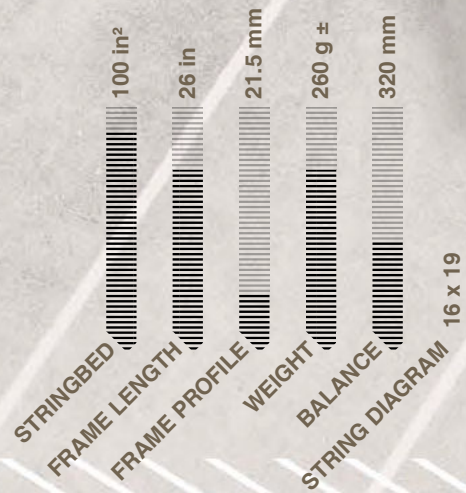
DESTINY 265



TENNIS ACADEMY



ACE 26



ACE 25



ACE 23



ACE 21



PREMIUM COMPETITION BALL

3 TUBE
4 TUBE



PK-XL PRESSURELESS BALL

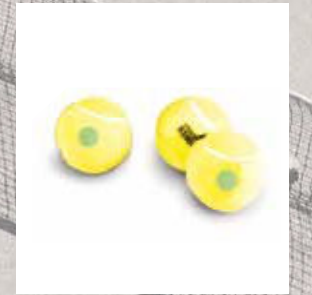
4 TUBE



COACH TRAINING BALL



STAGE 1 TRAINING BALL



BALL BAG TRAINING



STAGE 2 TRAINING BALL



STAGE 3 TRAINING BALL





EXTRAS



SQUASH



DESTINY SPEED

STRINGBED	73 IN ²
FRAME LENGTH	26,85 IN
FRAME PROFILE	19 - 21 - 14 MM
WEIGHT	115 G ± 5
BALANCE	350 MM
STRING DIAGRAM	16X19



DESTINY COUNTER BALANCE

STRINGBED	73 IN ²
FRAME LENGTH	26,85 IN
FRAME PROFILE	19 - 21 - 14 MM
WEIGHT	120 G ± 5
BALANCE	340 MM
STRING DIAGRAM	16X19



MOMENTUM SPEED

STRINGBED	75 IN ²
FRAME LENGTH	26,85 IN
FRAME PROFILE	19 - 21 - 22 MM
WEIGHT	115 G ± 5
BALANCE	345 MM
STRING DIAGRAM	14X18



MOMENTUM COUNTER BALANCE

STRINGBED	75 IN ²
FRAME LENGTH	26,85 IN
FRAME PROFILE	19 - 21 - 22 MM
WEIGHT	125 G ± 5
BALANCE	335 MM
STRING DIAGRAM	14X18



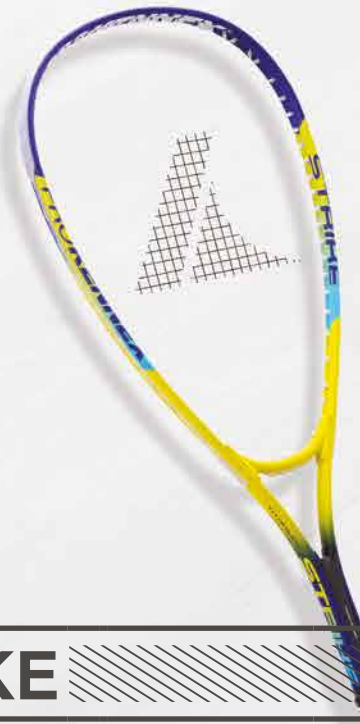
DESTINY KINETIC

STRINGBED	73 in ²
FRAME LENGTH	26,85 in
FRAME PROFILE	19 - 21 - 14 mm
WEIGHT	125 g ± 5
BALANCE	350 mm
STRING DIAGRAM	16x19



X-PLODE

STRINGBED	76 in ²
FRAME LENGTH	27 in
FRAME PROFILE	19,3 mm
WEIGHT	205 g ±
BALANCE	325 mm ±
STRING DIAGRAM	14x19



STRIKE

STRINGBED	78 in ²
FRAME LENGTH	27 in
FRAME PROFILE	18,7 mm
WEIGHT	205 g ±
BALANCE	320 mm ±
STRING DIAGRAM	14x20



MOMENTUM KINETIC

STRINGBED	75 in ²
FRAME LENGTH	26,85 in
FRAME PROFILE	19 - 21 - 22 mm
WEIGHT	130 g ± 5
BALANCE	345 mm
STRING DIAGRAM	14x18

X BAGS



TRIPLE SHEATH TOUR

Three compartments, one of which is thermal. Upper pocket, Side pocket and zipped pocket for carrying shoes. Ergonomic shoulder straps. The shoulder straps can be positioned on either the back or the front of the bag, allowing you to carry the bag based on your needs.

Capacity: 12 racquets | Sizes: 79 x 32.5 x 36 cm



DOUBLE SHEATH TOUR

Two compartments, one of which is thermal. Side pocket and two zipped pockets for carrying shoes. Ergonomic shoulder straps. The shoulder straps can be positioned on either the back or the front of the bag, allowing you to carry the bag according to your needs. The logo and reflective lettering are designed for the safety of those who like to travel on two wheels.

Capacity: 6 racquets | Sizes: 79 x 32.5 x 24 cm



BACKPACK TOUR

Upright-shaped backpack, offering ample space. The logo and reflective lettering are designed for the safety of those who like to travel on two wheels.

Sizes: 36 x 44 x 26 cm

MONOFILAMENT X STRINGS TENNIS



IQ HEXA

Latest generation monofilament string. The thin dimension guarantees unprecedented drive and the new composition of the polymer guarantees less loss of tension. The unique monofilament design guarantees greater grip on the ball for more intense rotations.

Hank: 200 m
Set: 12 m
Ø: 1,18 - 1,23 - 1,28 mm
Colors:
• blue (1,23 - 1,28)
• red (1,18)



EXPERT TX

String constructed with a central core made of high strength nylon 66 monofilament, wrapped in a multifilament sheath with different densities and intertwined with each other. It is a mixture of control, sensitivity and power. The heat treatment of this string reduces the movement of vertical rows during play.

Hank: 200 m
Set: 12 m
Ø: 1,25 mm
Colors:
• milky white
• amber
• pink (only set)



IMPACT PLUS

Latest generation multifilament. Impact Plus is characterized by the assembly of multifilaments of different synthetic materials that guarantee maximum power, sensitivity and control in the absence of vibrations. It maintains the tension.

Hank: 200 m
Set: 12 m
Ø: 1,25 - 1,30 mm
Color:
• natural

ACCESSORIES X



COMFORT PLUS

Colors:
Ultimate cushion and comfort



SUPER WRAP OVERGRIP

Colors:
Ultra thin overgrip. Elasticated micro-fiber formula. Perfect cushioning and comfort.



FRICTION EXTRA

Colors:
Superior absorbency. Unique hi strength, hi tack sealing tape. Nullifies vibration.



TACK PLUS

Colors:
Super tacky non-slip surface. High water absorbency. Soft and comfortable.



VIBRATION DAMPENER

Colors:
Vibration dampening and shock absorbing for reducing risk of tennis elbow and arm or shoulder discomfort.



PK CAP

Colors:

SQUASH ACCESSORIES



PK SYNTOUCH SQUASH STRING

1.20 Coil - 100m



PK RESPONSE SQUASH STRING

1.15 Coil - 100m



SYNIFLEX SQUASH STRING

1.2 Coil - 100m



PK INFINITY EYEGUARD

YOUKEN

 **PROKENNEX**
TOMORROW'S TECHNOLOGIES.

