

feelin' **YAMAHA**

1992

YAMAHA ARCHERY

RECURVE BOWS / COMPOUND BOWS





Darrell O. Pace (USA)....Yamaha Archery Advisory Staff

- Two Olympic Championships '76 at Montreal and '84 at Los Angeles.
- Two World Championships '75 at Interlaken and '79 at Berlin.
- World Field Championship '78 at Geneva.
- Seven U.S. Championships '72, '73, '74, '75, '76, '78, and '84.

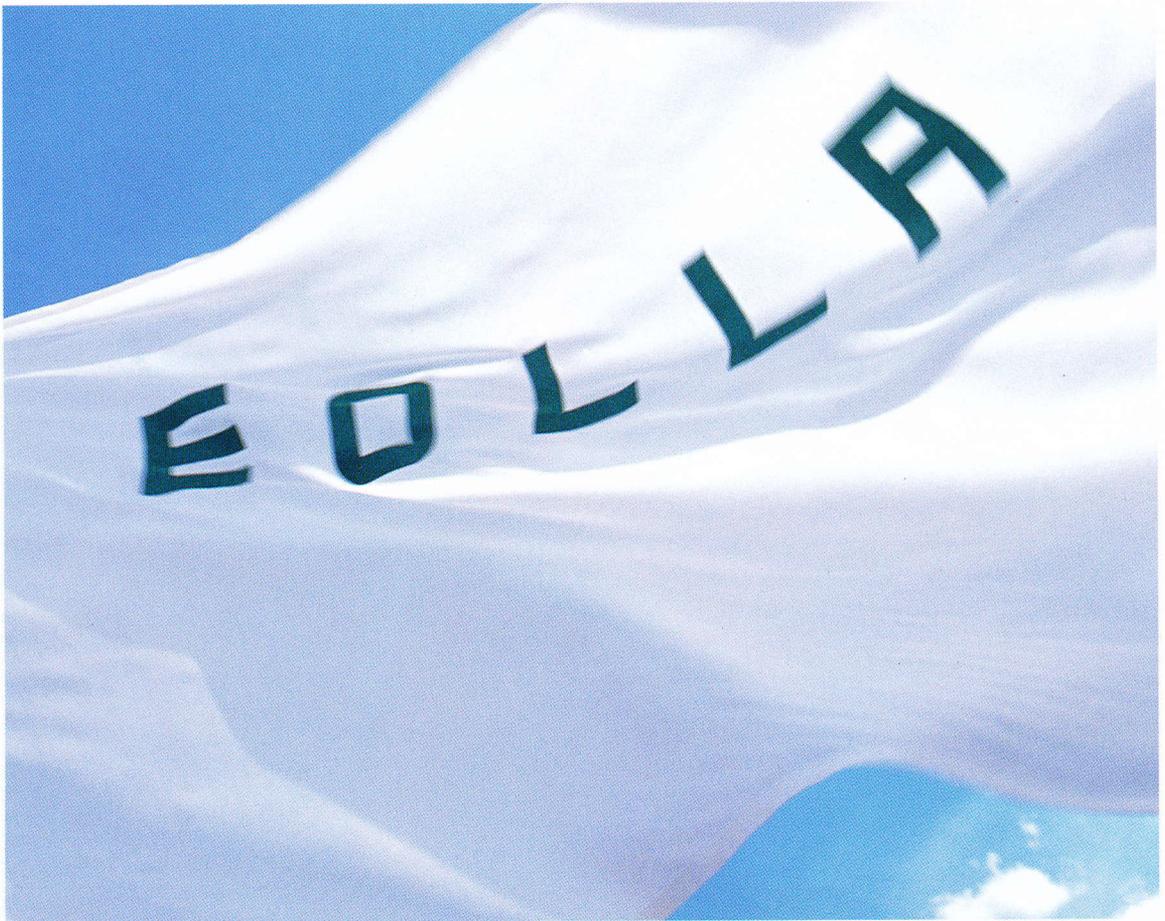
Archery is a sport that offers something extra to everyone. When you take up archery, you'll find it a challenging, very attractive and exciting sport hard to find in other ones. Yamaha has long committed to helping bring its excitement and satisfaction to every archer. Through our totally integrated expertise and know-how on archery all-around. Our human engineering and psychological studies are all allied to the best materials, sophisticated design and rigid quality control. All in all is teamed up to put you right on top.

Just right for archers moving up

NEW!

EOLLA

A tail wind all the way to Barcelona



Though the flight of the arrow from the bow took a sudden jump in speed with the advent of the carbon arrow and of light-weight strings, these same advances have resulted in a proportionate additional shock absorbed by the bow handle and limbs at release, creating new problems negatively affecting durability and resilience.

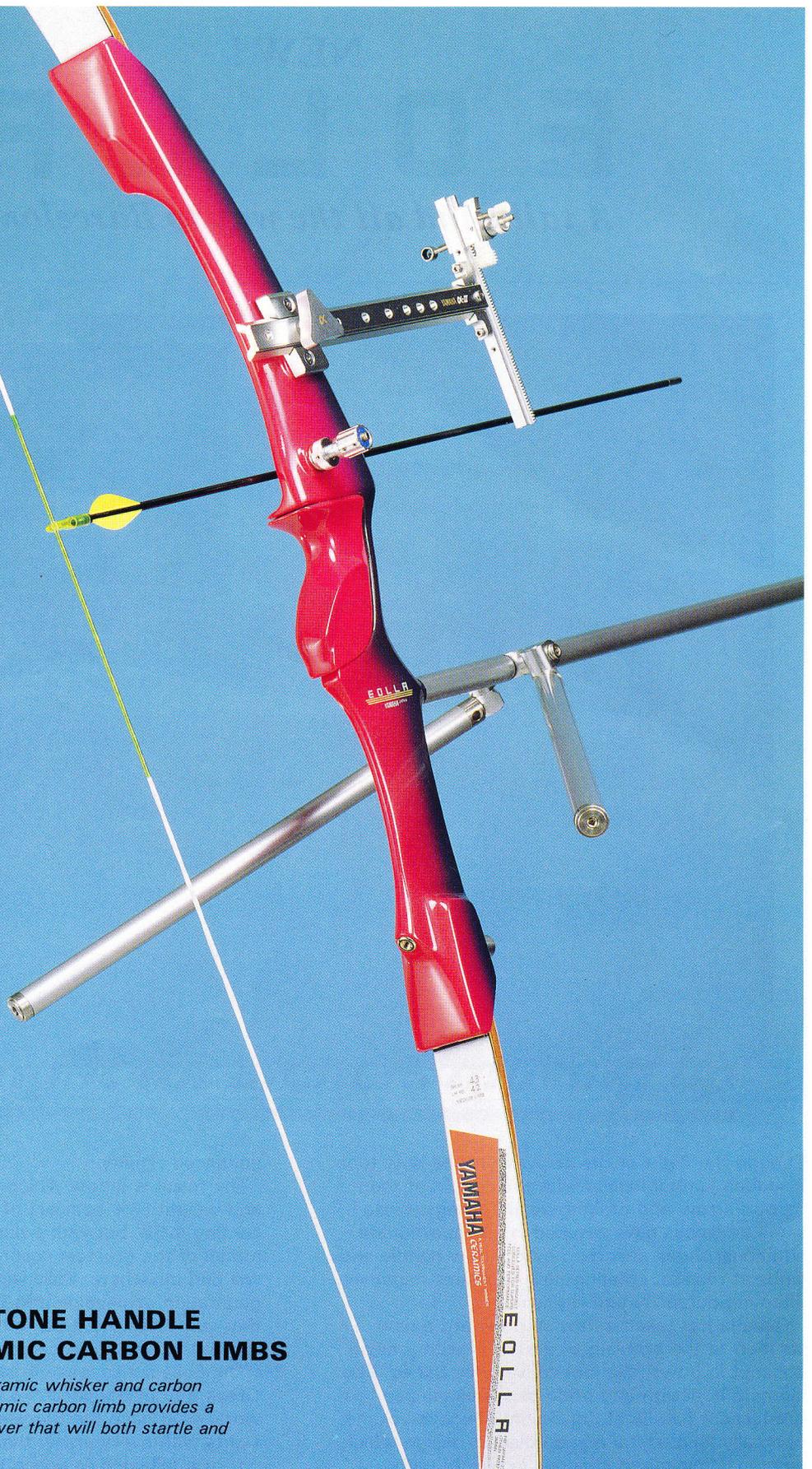
Yamaha has taken a new step toward a new solution to the problem of durability with a novel concept in bows: the innovative Eolla Series. The ultimate in design and pride of craftsmanship has produced a handle of "minimum effective volume, optimally located," a magne-diecast design which combines minimized changes in weight with

enhanced rigidity.

The result is a bow which maintains the accuracy and weight (3% heavier) of the world record-holding α -EX, but with twice the resilience, a model of the greatest accuracy and strength you will find anywhere. Eolla represents a next-generation achievement in rigidity and durability that surpasses the α -EX, a hyper-performance model that will enhance your performance.

The Eolla series was christened after the ancient Greek god of the wind. To the archers of the world who have the Barcelona Olympics in their sights with every arrow they let fly, Yamaha's gift of a tail wind to speed their dreams. Eolla.

**NEW
EOLLA
SERIES**



**EOLLA TWO-TONE HANDLE
EOLLA CERAMIC CARBON LIMBS**

A composite of new ceramic whisker and carbon materials, the Eolla ceramic carbon limb provides a blend of rigidity and power that will both startle and please you.



**EOLLA TWO-TONE HANDLE
EOLLA CARBON GRAPHITE LIMBS**

Yamaha research, continuing its concentrated efforts in the improvement of "gold metal," has succeeded in bringing to archers the most efficient limb yet. The Eolla Carbon Graphite Limb can respond to the needs of even the most advanced archers.

NEW EOLLA SERIES



EOLLA HANDLE EOLLA LAMINA GLASS LIMBS

Yamaha's advanced FRP technology presents a glass limb designed down to the most precise detail — the Eolla Lamina glass limb. Increased stability through a greatly increased number of layers brings you a suppleness that has to be experienced to be understood.



- **EOLLA TRI'COLOR HANDLE** (Right & Left-handed model available)
- **EOLLA TWO-TONE HANDLE** (Right & Left-handed model available)
- **EOLLA HANDLE** (Right & Left-Handed model available)



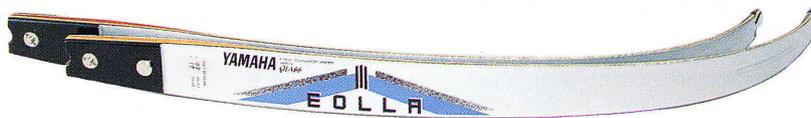
■ **EOLLA CERAMICS CARBON LIMBS**



■ **EOLLA CARBON GRAPHITE LIMBS**



■ **EOLLA LAMINA GLASS LIMBS**



Draw weight (Draw weight: measured at 26" from pivot point)

Bow Length	Combination		"EOLLA" Ceramics Carbon, Carbon Graphite, Lamina Glass
	Handle	Limb	
64"	Short	Short	30 – 43 lbs.
66"		Medium	30 – 49 lbs.
(68')		Long	35 – 45 lbs.
(66')	Long	Short	29 – 42 lbs.
68"		Medium	29 – 48 lbs.
70"		Long	34 – 44 lbs.

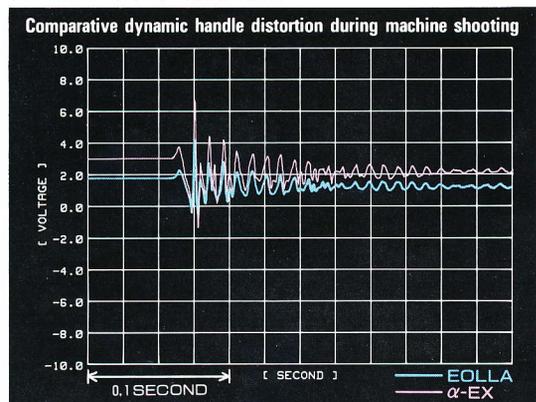
- **Master string height:**
64": 8 1/4, 66": 8 1/2, 68": 8 3/4, 70": 9"
- **Bow weight:**
(ceramics carbon) 64"/66": 1.43 kg, 68": 1.48 kg
(carbon graphite) 64"/66": 1.46 kg, 68": 1.51 kg
(lamina-glass) 64"/66": 1.48 kg, 68": 1.53 kg
- **Standard equipment:**
Draw weight adjusters (3 types), MX grip

EOLLA TECHNICAL INFORMATION

Vibration and Stress Suppression (VASS) Technology for the Maximum in Handle Strength

VASS, the latest development in technology for the suppression of vibration and bow stress, has now produced a handle of ultra-high rigidity able to fully respond to the new age of light-weight arrows and strings, and high-velocities in arrow speed. VASS construction, the ultimate in magne-diecast design, has succeeded in creating a handle of "increased rigidity with distributed stress for reduced vibration" through the use of a design of "minimum effective volume, optimally located." More specifically, "as much volume as possible was moved from the face of the handle to the rear to create a more flowing design, weight changes minimized and rigidity increased to the maximum degree in order to suppress unwanted vibration created in the handle at release to the very minimum possible."

This new innovation in handle configuration provides the Eolla handle with double the durability of the α -EX as shown in testing, verifying that the Eolla is the most rigid and precise handle of any, and may be depended on to deliver only the highest in performance under even the worst of conditions.

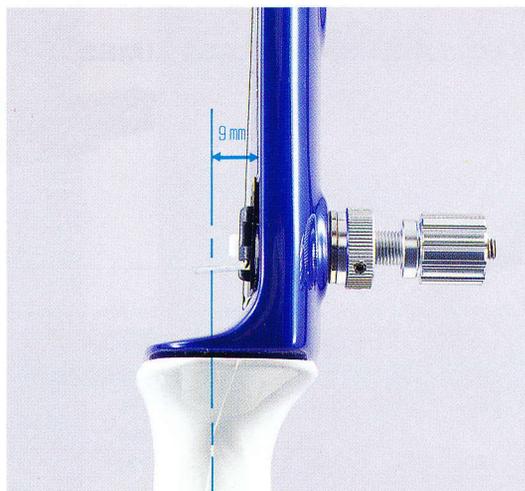


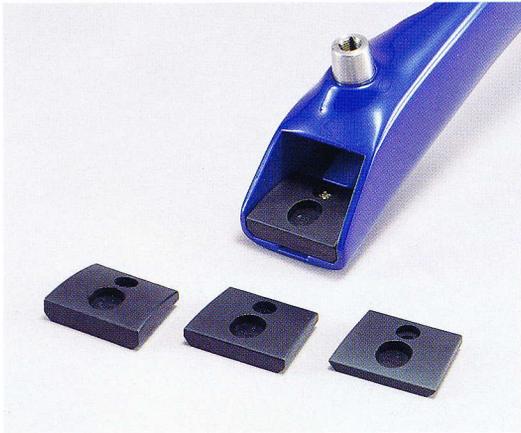
Breath-taking Curvature of Design

While only representing a 3% increase in weight over the α -EX, the Eolla provides double the durability of that design, and is breath-takingly beautiful in its modern body-line curvature. Further, while maintaining the basic performance and functions of the world record-holding α -EX, the Eolla has been improved in design and beauty, specifically aimed for targets in Barcelona.

A Wide Window for an Easy Center Shot

With a sight window expanded to 9 mm over the 8 mm of the α -EX, the Eolla provides a far better center shot. It also provides a greater scope for tuning.





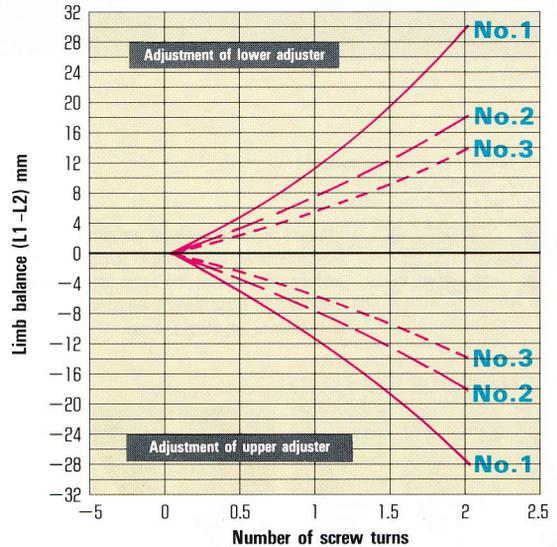
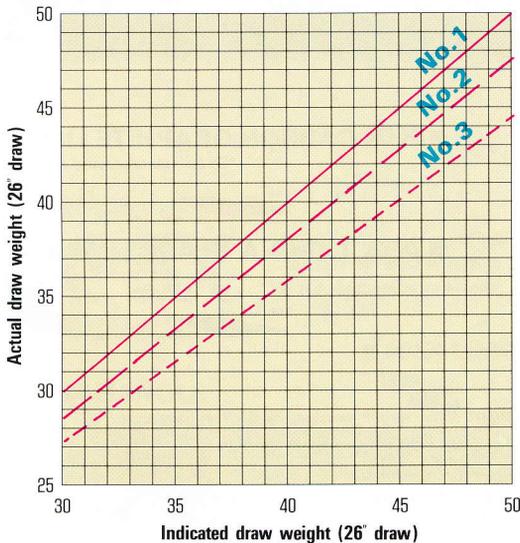
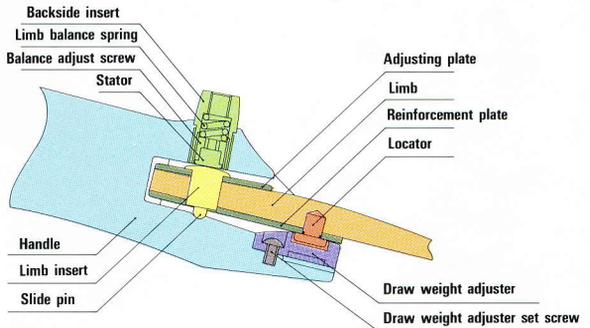
A Double Adjustment System for Making Your Own Bow Really "Yours" Tune the Eolla to your own needs

Everyone wants a bow tuned specifically to their own methods of shooting and their own strength. "If there were only a bow that would grow with me as I get better....." Well, this is it! The Double Adjustment System allows archers to easily tune the bow to their own strength and style with high precision.

Adjustment System 1 / A choice of three hidden draw weight adjusters allows adjustment to indicated draw weight of as much as 10%.

Adjustment System 2 / Limb balance adjusters at the top and bottom of the handle may be used to tailor handle height as much as 15 mm.

Another feature includes the most effective method ever of attaching the limb to the handle, the tackless insertion hub. This system allows pound limb balance to be maintained at the very most effective level for the individual archer.





α-DX HANDLE
α-DX CARBON GRAPHITE LIMBS

■ **α-DX CARBON GRAPHITE LIMBS**

**To be manufactured to order.*



■ **α-DX LAMINA GLASS LIMBS**



Features superior on-target performance with greater responsiveness, embodying in it an outstanding cost performance ratio at the same time. Available are three variations of draw weight adjusters and two variations of limb balance adjusting spacers.

■ **α-DX HANDLE** (Left-handed model available)

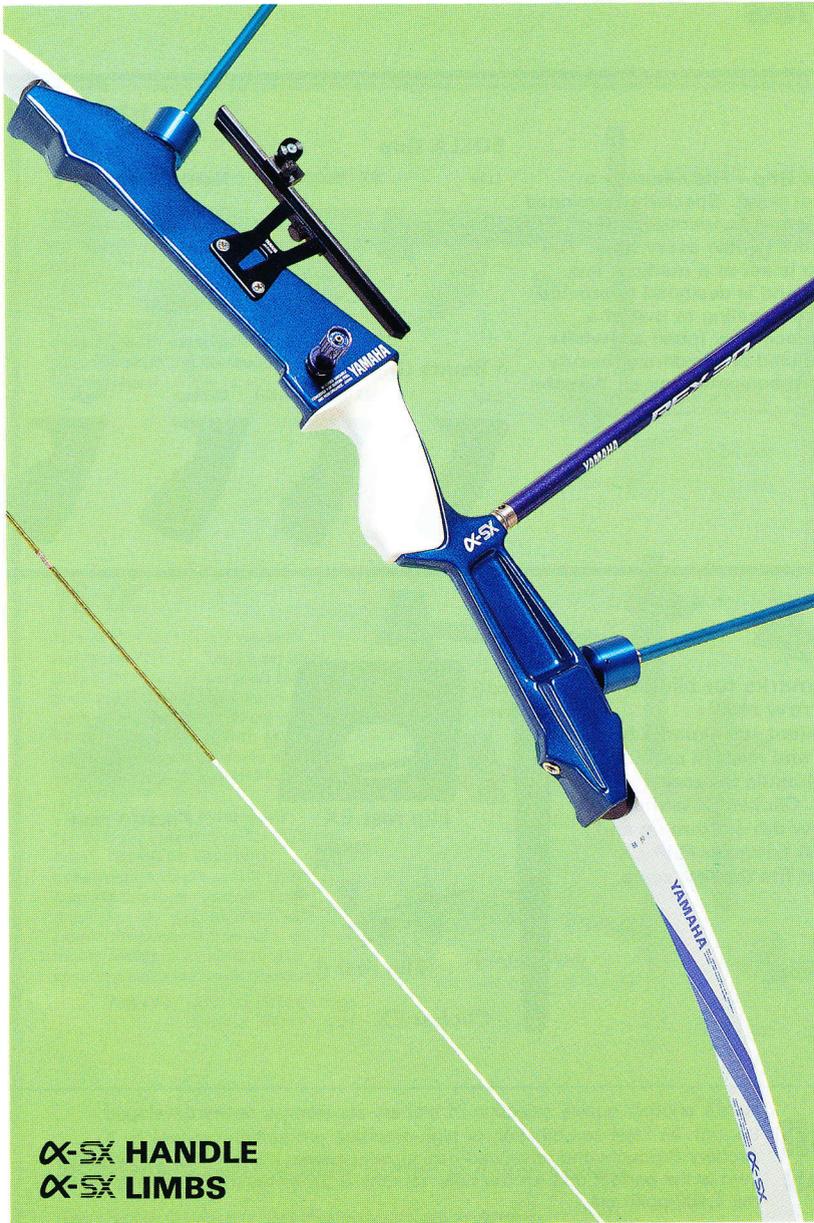


Red Pearly pink Peacock blue Gun metallic White

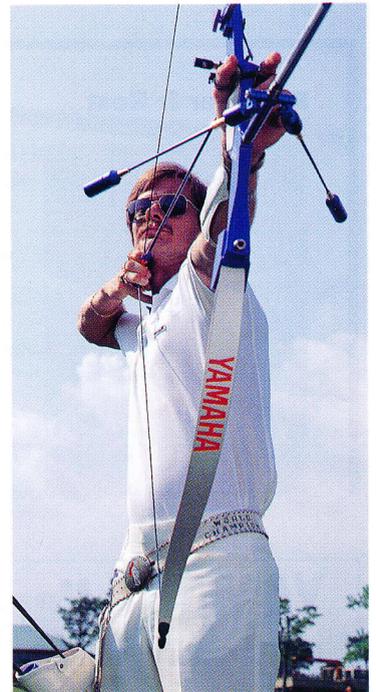
Draw weight (Draw weight: measured at 26" from pivot point.)

	Carbon Graphite	Lamina Glass
64"	30-40 lbs. (1 lbs. increments)	28,30,32,34,36,38,40 lbs.
66"	30-42 lbs. (1 lbs. increments)	28,30,32,34,36,38,40,42 lbs.
68"	34-42 lbs. (1 lbs. increments)	32,34,36,38,40,42 lbs.

- Master string height: 64": 8³/₈", 66": 8³/₄", 68": 8³/₄",
- Bow weight: 64": 1.32kg, 66": 1.35kg, 68": 1.38kg
- Standard equipment: Draw weight adjusters (3 types), Spacers (2 types), MX grip



α-SX HANDLE
α-SX LIMBS



Darrell O. Pace

α-SX

An easy-shooting, all-round bow for archers with competition in mind. Just right for those who place a priority on speeding up their advance in skill. Features extra handling ease with a soft shooting feel.

■ α-SX HANDLE



White Peacock blue Flash pink

■ α-SX LIMBS



Draw weight (Draw weight: measured at 26" from pivot point.)

	α-SX
66"	26, 28, 30, 32, 34, 36, lbs.

- Master string height: 66" : 8¹/₄
- Bow weight: 1.17kg.
- Standard equipment: MX grip

Magnesium alloy is used in the handle of Yamaha bows. Never modify the handle by shaving it or drilling a hole on it. Any remodeling of the handle unit will advance fatigue or corrosion in the metal, cutting down its durability. To assure the superb quality of the handle, Yamaha carried out a variety of stringent checks and X-ray testings including durability tests for metal fatigue by sampling the specified number of every casting lot. In case some defect arising from workmanship is found on the bow during the warranty period, immediately contact us for repairs or replacement which shall be effected in accordance with the stipulation specified in the relevant warranty policy.

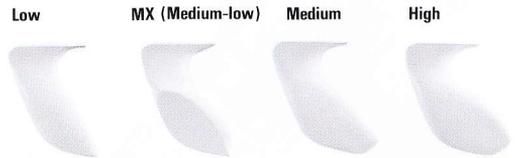
Archery Accessories

■ Grip

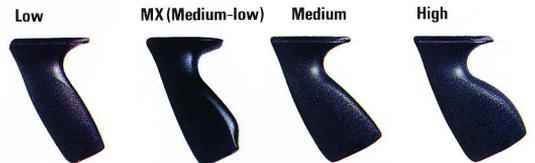


The MX Grip – Fits naturally to the pivot point. Specially developed for archers who want a perfect grip to the handle every time. The MX grip is set at a medium-low position and is designed to provide the closest feeling to that of a single-piece bow found anywhere. Unparalleled precision and beauty (standard equipment on all Yamaha bows).

EOLLA Grip



α Series Grip



■ Clicker & Rest



Scale marks for clicker and arrow rest
Convenient scale marks for clicker and rest are provided on the handle for easier setting. Clicker EX with a sliding width of 6mm up and down. A compact FLIP-EX rest that fits the rest scale.



Clicker EX



Flip rest EX



Plastic rest



Flip rest II

YAMAHA Version by K Archery Products, JAPAN

Here's another quality selection of archery accessories newly developed through an ideal combination of high-precision production process by K Archery Products and advanced design refinements by Yamaha. Every single item is the perfect one for the new Yamaha α-EX series that's moving up to the 1,400 point era.

■ Cushion plunger: N type

Adopted is a flon-metal S coating that features smaller friction coefficient and moderate flexibility. Provides greater durability, eliminating any torsional deformation.



Blue



Silver



Red



Black

■ Fistmele gauge

Adaptable for both inch and centimeter systems.



Blue/Red/Silver/Black

■ Y-balancer: STD

Adaptable for either rod of 8mm or 6mm.



Blue/Red/Silver/Black



White Series

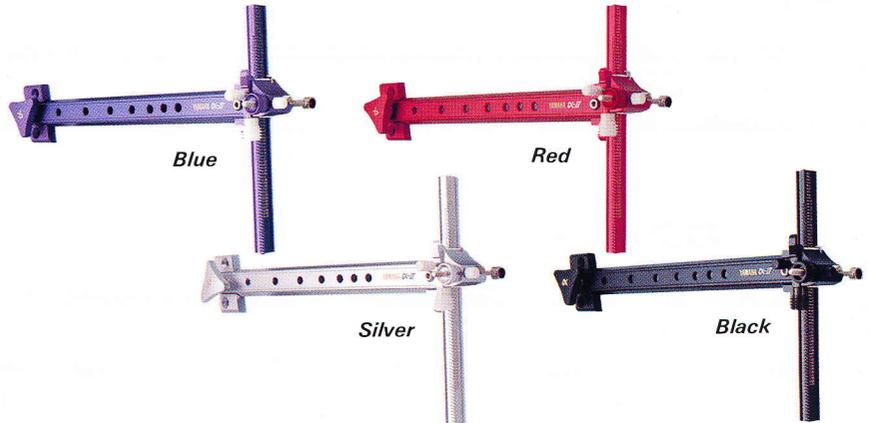
Flon-metal S processing

Flon-metal S process provides an outstanding characteristic that permits extra smooth sliding without lubrication even under the temperature conditions ranging from -270°C to 350°C . Tops in sliding performance among the existing resin bearing materials, also having some 50,000 times greater strength compared to fluoroplastic (including Teflon). This is an epoch-making coating process particularly for the archery equipment.

■ Sight

YS- α II

A new tournament bowsight employed with a safe-lock mounting system. Features extra durability descendent from the Yamaha version T-254 bowsight and extra handling ease from the YS- α , ensuring both extra safe and accurate shooting all-round. 10" extension: 170g

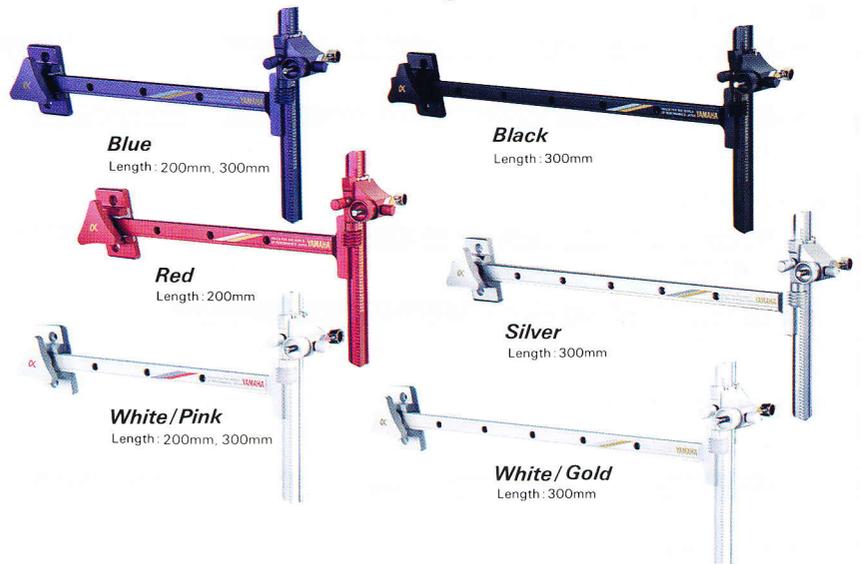


YS- α

Newly introduced tournament bowsight: YS- α . Here's an ideal bowsight newly developed for tournaments that has been completely refined in every point of function and design with extra handling ease by carefully analyzing all the aspects of competition.

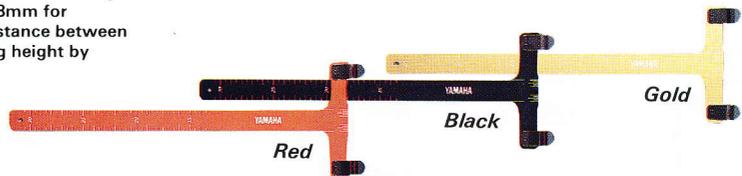
The new YS- α is extremely lightweight (147 grams for 200mm type), having an optimum construction to prevent it from causing improper torque. The extension bar with an extra slim profile descendent from the YS-V is highly resistant to wind affects, assuring extra accurate shooting.

Weights: 147g for 200mm type
164g for 300mm type



■ Fistmele Gauge (with metric and inch scales)

Helps locate the nocking point (position on the bowstring where the arrow is nocked. In general, 4 to 8mm for beginners), or measure the string height (distance between bowstring and pivot point). Adjust the string height by twisting the bowstring.

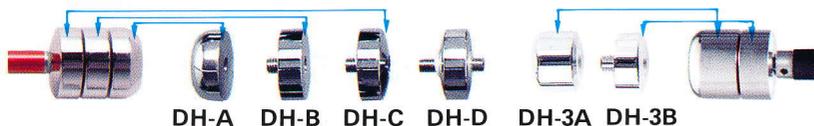


■ Flexi-Damper

Flexi-Damper EX Provides a new device to control the rod deflection arising at shooting from the vibration gap of the bow between horizontal and vertical directions.



■ Damper Head

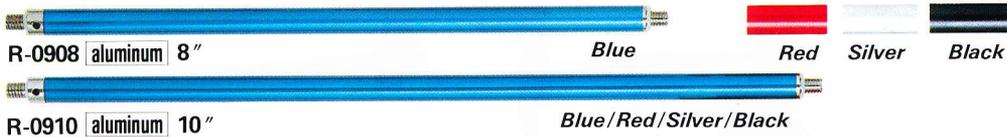


Archery Accessories

Center Rod Stabilizer



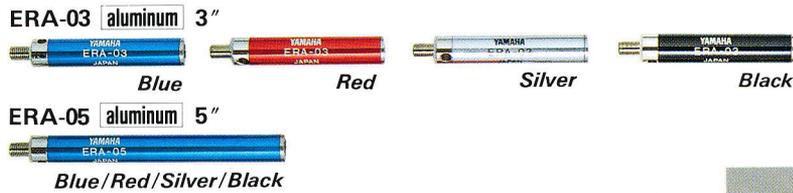
Swing Rod: Aluminum



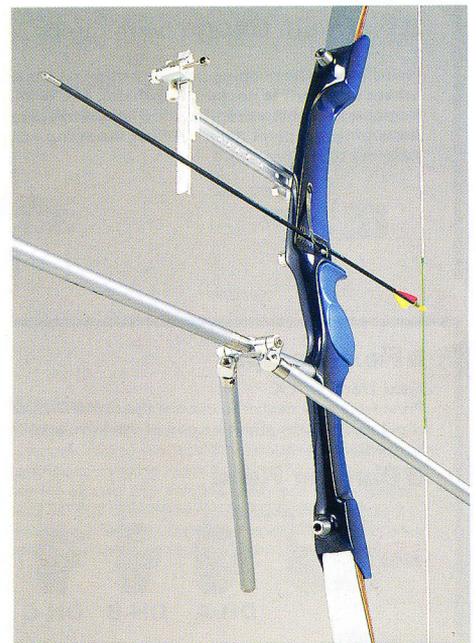
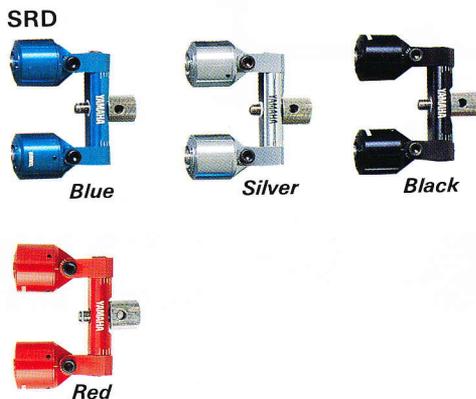
Swing Rod: Carbon



Extension Rod



Y-Balancer



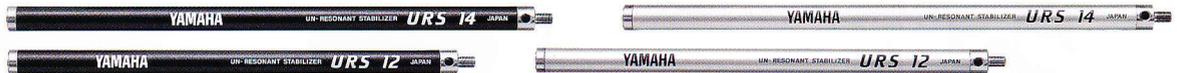
■ Un-Resonant Stabilizer

NEW URS II-26, 30



carbon 26", 30" Black / Silver

NEW URS-12, 14



carbon 12", 14" Black / Silver

NEW URE-03, 04



carbon 3", 4" Black / Silver

URS (Un-Resonant Stabilizer): the most accurate stabilizer ever designed is now available from Yamaha archery.....

YAMAHA'S URS SERIES WEIGHT SYSTEM

Yamaha's all new URS (Un-Resonant Center Rod Stabilizer) and URE (Un-Resonant Extension Rod) stabilizer systems are based on the advanced Un-Resonant theory. This theory features two unique advantages never before available with any stabilizer system. The first feature offers a stabilizer design that produces five times the ultra rigidity as compared to other stabilizer rods currently available to target archers. The second features offers the archer a stabilizer rod that is two and one half times heavier in mass weight than other rods. There are other features such as material composition and shaft shape but the features that provide the archer with the greatest advantages over other stabilizers are the URS rods superior rigidity and heavier weight. Currently, the majority of stabilizer rods available to archers feature very light mass weight. All of our design efforts and rod testing at Yamaha strongly suggest that stabilizer rods should be boldly heavier. The advantage of our URS series stabilizer system are as follow : The function of a stabilizer rod is to stabilize that static and dynamic movement of a bow through the theory of inertia. (To cause the bow to be inactive and not move). Secondly, the stabilizer is used to increase the stability of a dynamic bow by absorbing and emitting the vibrations caused by energy change. It is well known that absorption and emission of vibrations is related to the damping characteristics which stabilizer rods have based particularly on shaft materials,

composition, rigidity, shaft weight, etc.. Stabilizer weights which are normally independent from the rod are used only for the purpose of adding weight to the stabilizers to adjust the inertia by moving the center of gravity of the bow and are not usefull for damping characteristics.

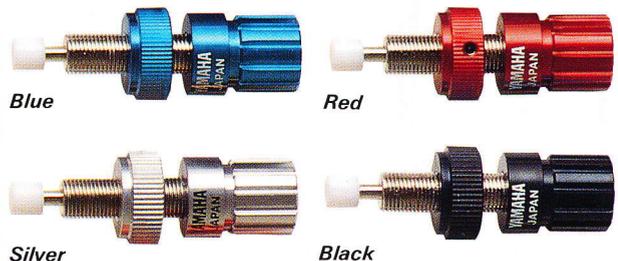
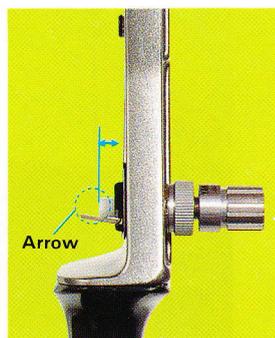
The heavier weight of the URS system actually puts the weight in the carbon shaft itself. We have been able to shift the weight and balance it over the entire length of the shaft by thickening the carbon/ FRP layers within the shaft. This method provides a more balanced stabilizer system and puts the weight inside the shaft where it belongs and distributes it equally rather than having it all at the end. When using the URS Weight System, you must adjust the weights recognizing that there is already two and half times the weight of a normal carbon rod built into the system. In effect, the system provides the archer with a stabilizer that already has two weights added to the rod.

Further, URS-12/14 which will be used with the Y-Balancer should be adjusted with the knowledge that one weight head has already been attached to the rod. As the standard, it is advised to reduce the number of adjusting weights by two in the long rod (30", 26") and by one weight in the short rod (14", 12") as compared to the normal number of head weights.

For your reference, we show each weight as follow:
 URS II-30: 215G URE-04: 58G
 URS II-26: 200G URE-03: 51G
 URS-14: 144G
 URS-12: 136G

■ Plunger

Cushion plunger EX
 More efficient due to a large-sized sliding block construction with an inner spring guide system, providing both maximum stability and durability.



Archery Accessories



■ Armguard

Armguard III (AG-3)



Armguard II (AG-2)



■ Tab



Tab III (T-3)

Tab II (T-2)

Tab III with Cant Pinch
Tab II with Cant Pinch

■ Chestguard

Better body fit due to three-dimensional cutting. Made of nylon mesh material, it provides extra air circulation and elasticity. Comfortable even on rainy, muggy days.



White Blue Red

■ String



Tekmilon string®

Kevlar String®

Tetrion String

■ Bow Stringer

Bow Stringer II (BS-2)



■ Quiver



Tournament Quiver B



Tournament Quiver



Tournament Quives S



Quiver III



Quiver II

■ Arrow Case



Brown White

Arrow Case AC-2L/AC2LL



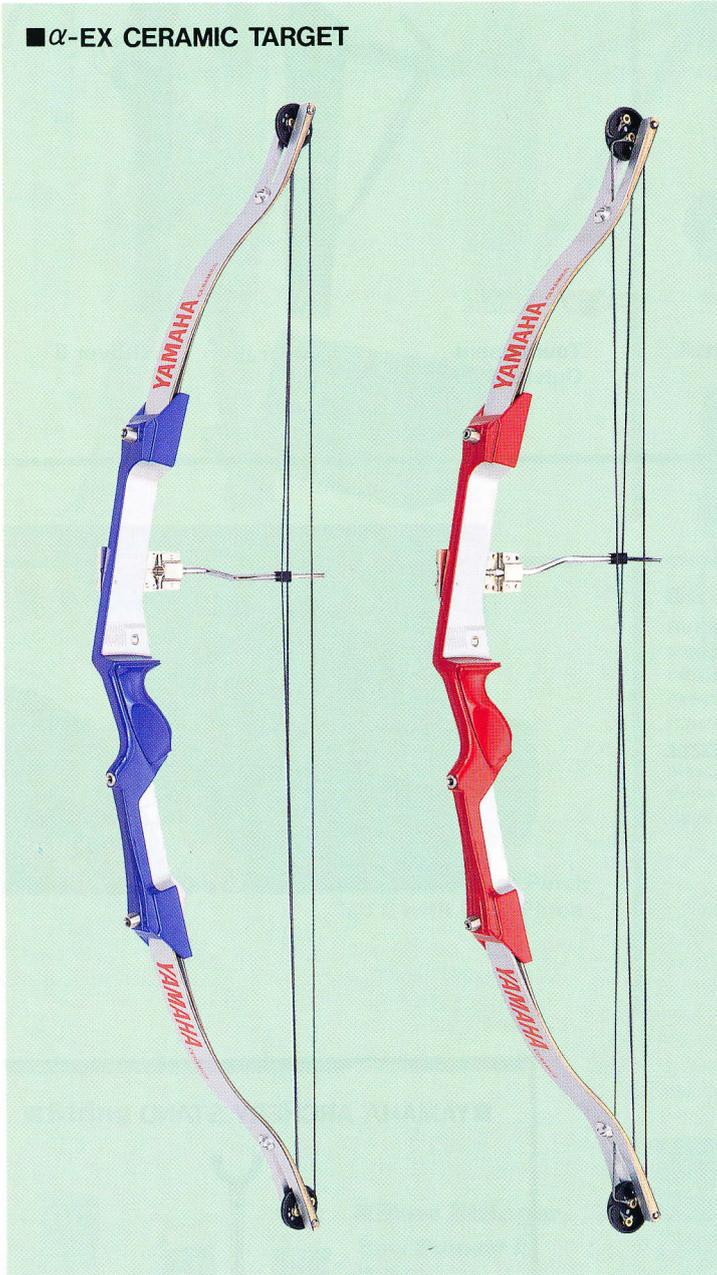
■ YAMAHA ARCHERY STAND



YAMAHA

NEW WORLD CLASS COMPOUND BOWS!

■ α -EX CERAMIC TARGET



■ α -EX CARBON HUNTER



THE DAWN OF A NEW ERA IN COMPOUND BOW TECHNOLOGY

There is no Quality or Performance without Engineering. With this concept in mind, years of engineering have gone into the development of the all new YAMAHA Compound Bow. Every detail has been considered in the development of these bows to insure that they represent the future in compound bow technology. From their stylish and perfectly

balanced new riser, single groove-Super Flight wheels and cable system, weight and tiller locking system and the most technically advanced limb design ever used on a compound bow featuring an outstanding combination of CARBON and CERAMIC laminations, YAMAHA Compounds represent the ideas that dreams are made of.

YAMAHA

COMPOUND BOWS—SIMPLY THE BEST!



Years of extensive research has proven that what makes a compound bow perform with dependable consistency and achieve the lightning fast speeds required by today's archers and bowhunters is a combination of quality manufactured parts that are designed to perfection to work together. At YAMAHA quality has always been No.1 and the new YAMAHA Compound bows reflect this attitude. The CERAMIC material that has proven itself on the target line for several years has now been incorporated into the finest compound bow limb ever designed.

Single groove eccentrics combined with the most scientific string and cable material ever designed, "SUPER FLIGHT", work together with perfect timing to provide the smoothest, most consistent shooting and best balanced compound bows ever built. The combination of all these great features add up to a remarkably fast, flat shooting bow. The weight adjustment system of the YAMAHA compound features a locking system that insures the weight tiller adjustment will not change while the bow is being shot. Limbs are contained within the bow handle to insure constant performance by allowing the bow to be adjusted only within the specific weight range of each bow. The limbs can not be adjusted above or below specified weights by more than a pound or two.

■ YAMAHA COMPOUND TUNE CHART

1991 Bow Model	Draw Weights	Axle to Axle	Draw Length	Wheel Sizes	String Length	Cable Length	Handle Colors	Let-Off Wheel
α-EX	35-50 #	45 1/2"	27"	1 3/4"	53.0"	46 1/2"		
CERAMIC	45-60 #		28"	2"	53.5"	46 1/2"		
TARGET	55-70 #		29"	2"	54.0"	46 1/2"	Red/Silver	50%
			30"	2 1/4"	55.0"	46 1/2"	Blue/Silver	or
			31"	2 1/2"	56.0"	46 1/2"		65%
			32"	2 3/4"	(57.0")	46 1/2"		
α-EX	35-50 #	45 1/2"	27"	1 3/4"	53.0"	46 1/2"		
CARBON	45-60 #		28"	2"	53.5"	46 1/2"		
HUNTER	55-70 #		29"	2"	54.0"	46 1/2"		50%
			30"	2 1/4"	55.0"	46 1/2"	Black	or
			31"	2 1/2"	56.0"	46 1/2"		65%
			32"	2 3/4"	(57.0")	46 1/2"		

Options: Upper Cable Guard set, Soft Case



**"The U.S. Archery Team logo is a registered mark of
the National Archery Assn. of the U.S."**

YAMAHA

YAMAHA CORPORATION
P.O. Box 1, Hamamatsu, Japan