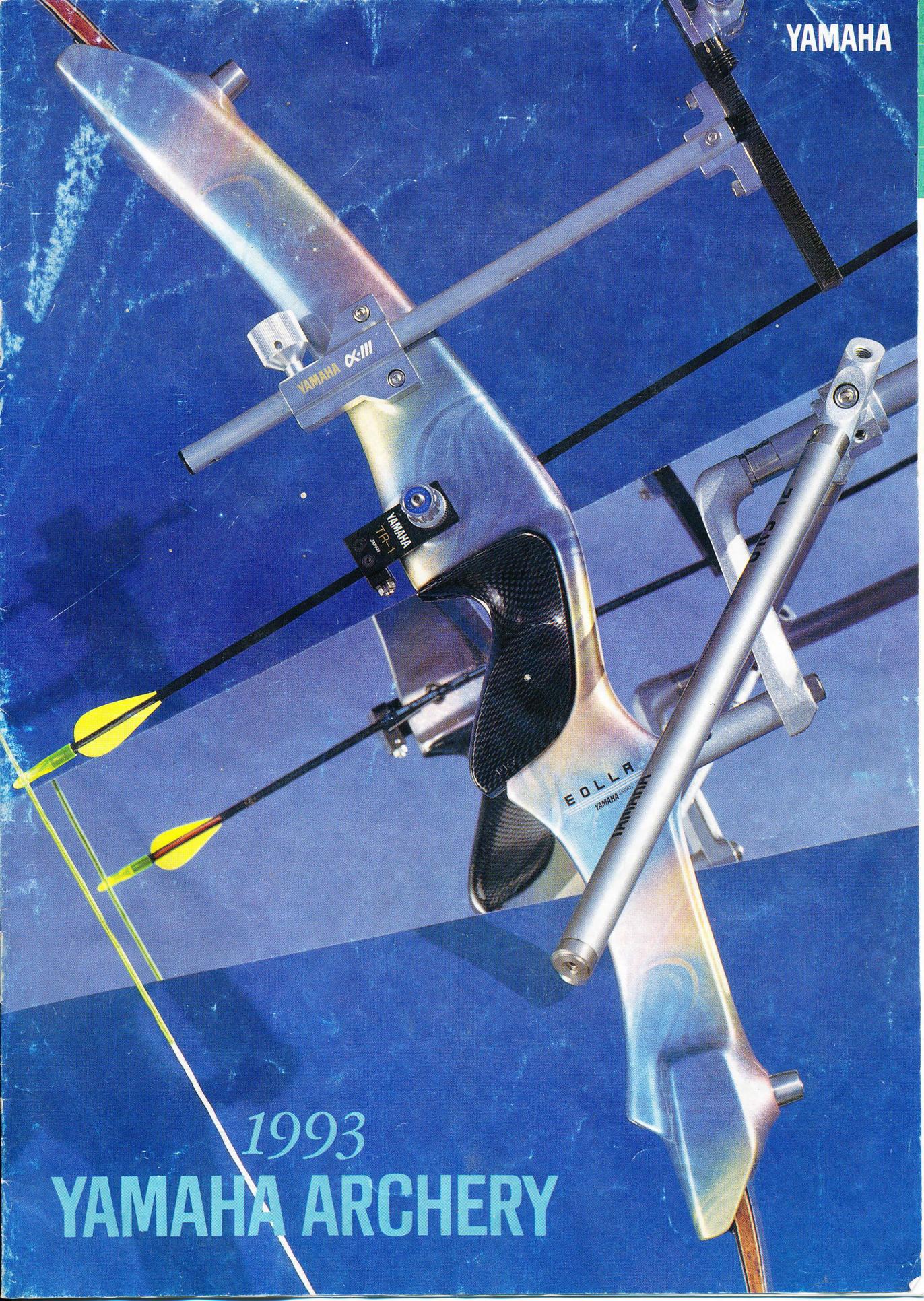


YAMAHA



1993

YAMAHA ARCHERY

EOLLA

BARCELONA '92 GOLD MEDAL BOW



High speed and stable flight are the hallmarks of EOLLA. It garnered gold medals in both men's and women's championship competitions, capturing the coveted "Gold Bow" award at the Barcelona Olympics. Another brilliant achievement was the taking of all three medals, gold, silver and bronze, in women's competition. EOLLA, a concept bow that anticipated a new age in high speed flight, has brought the future to the present in terms of flight speed and stability. And now an age of even higher speed settings is before us. The EOLLA handle, with its magne-die cast design, captures the utmost in design excellence, and coupled with limbs of the highest levels of both rigidity and endurance available form the optimal combination to allow the archer of today's high-velocity age to concentrate fully on aiming accuracy for each and every shot. The target in Yamaha's sights is to aim always for the next generation in high-velocity, high stability performance, in step with the archers who make our bows winners.

**EOLLA
SERIES**

**EOLLA NEW COLOR 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
SERIES**



**EOLLA NEW COLOR HANDLE
EOLLA CARBON GRAPHITE LIMBS**

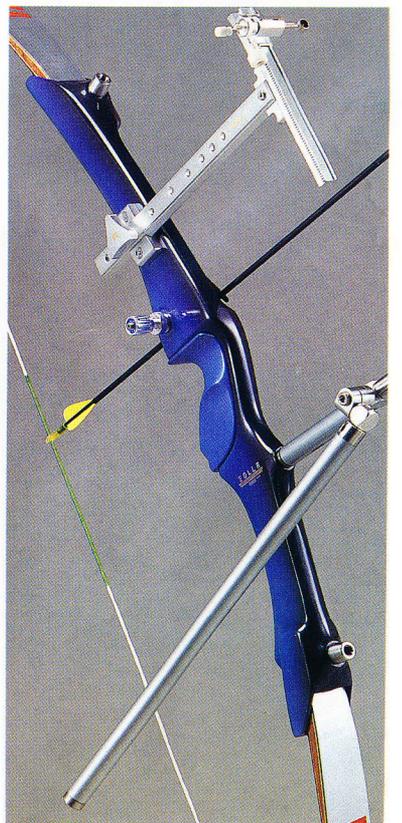
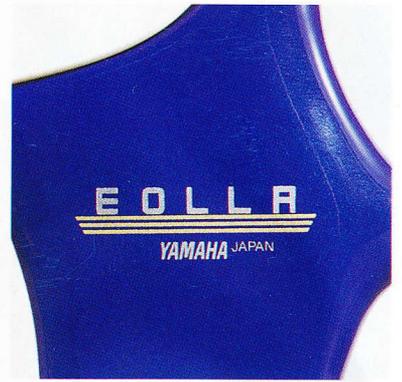
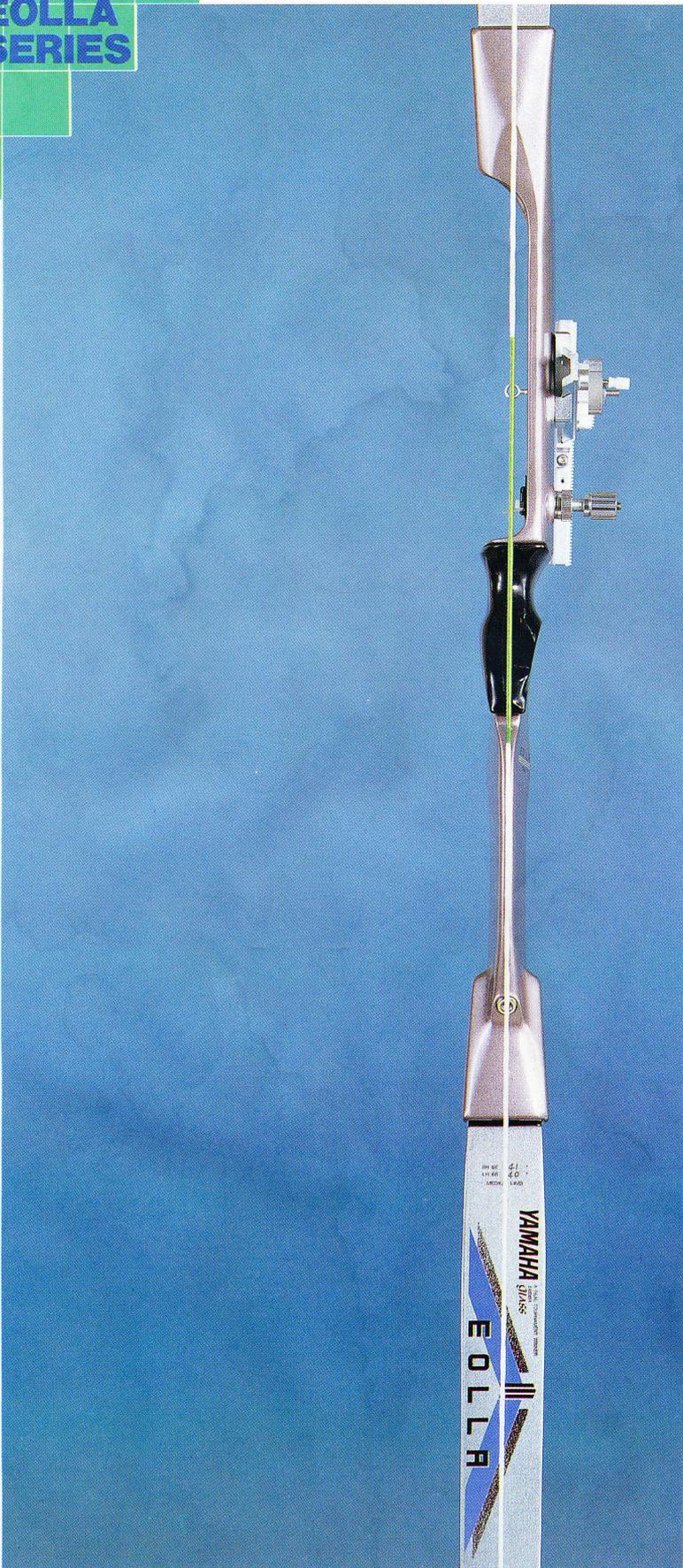
Yamaha research, continuing its concentrated efforts in the improvement of "gold metal," has succeeded in bringing to archers the most efficient limb yet. The Eolla Carbon Graphite Limb can respond to the needs of even the most advanced archers.



**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
SERIES**



■ **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:**

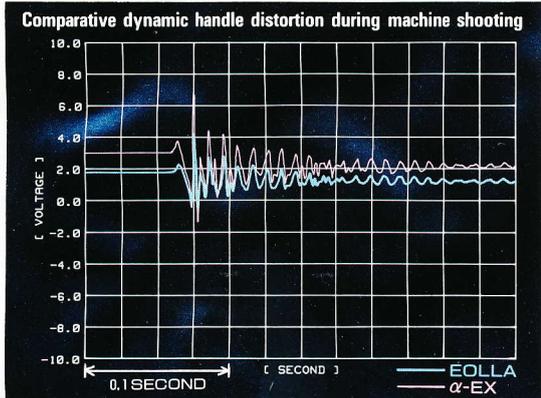
Draw weight adjusters (3 types), MX grip

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.



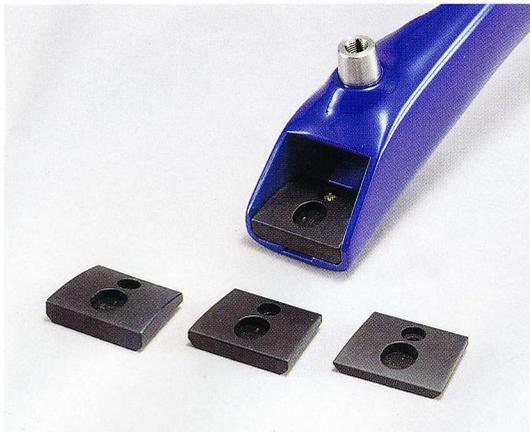
Breath-taking Curvature of Design

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 Atlanta.

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.





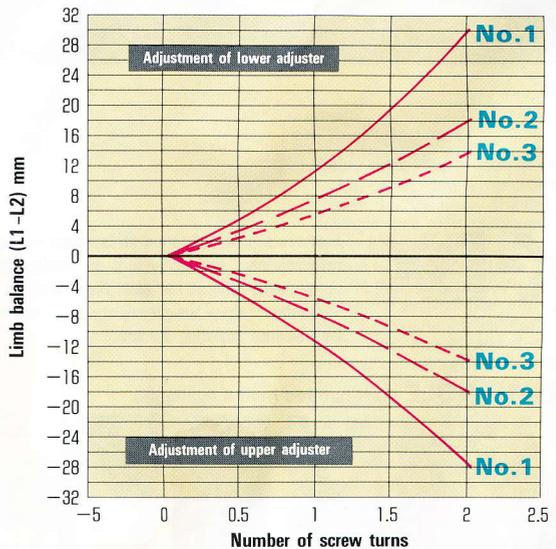
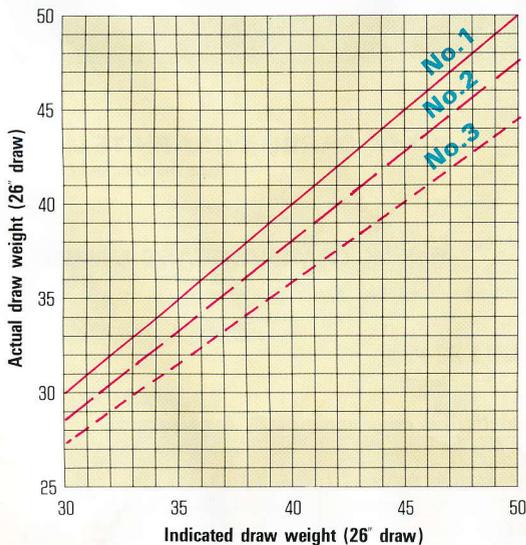
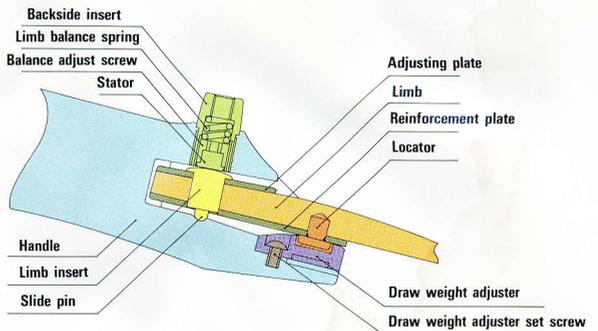
A Double Adjustment System for Making Your Own Bow Really "Yours" Tune the Eolla to your own needs

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



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

■ **α-DX CARBON GRAPHITE LIMBS**

**To be manufactured to order.*

■ **α-DX LAMINA GLASS LIMBS**

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": $8\frac{3}{8}$ ", 66": $8\frac{3}{4}$ ", 68": $8\frac{3}{4}$ "

•Bow weight: 64": 1.32kg, 66": 1.35kg, 68": 1.38kg

•Standard equipment: Draw weight adjusters (3 types), Spacers (2 types), MX grip

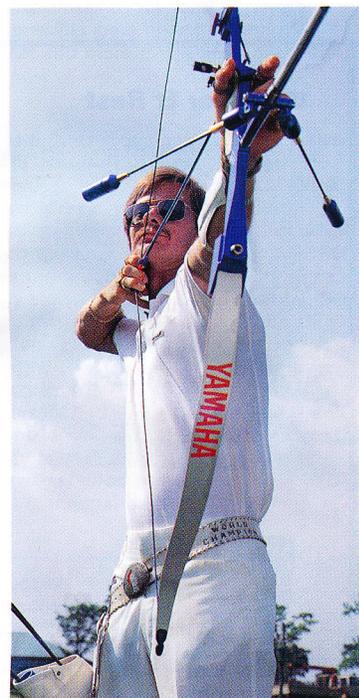


α-SX HANDLE
α-SX LIMBS

Darrell O. Pace (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.



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.

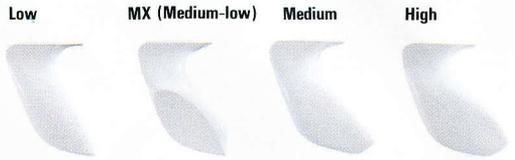
Archery Accessories

■ Grip

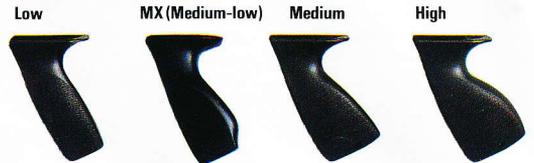


The MX Grip – Fits naturally to the pivot point. Specially developed for archers who want a perfect grip to the handle every time. The MX grip is set at a medium-low position and is designed to provide the closest feeling to that of a single-piece bow found anywhere. Unparalleled precision and beauty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

EOLLA Grip



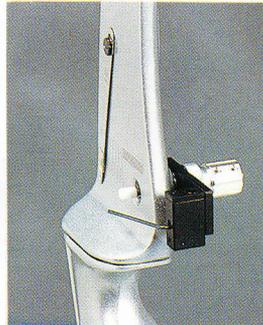
α Series Grip



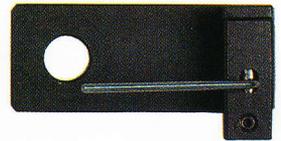
■ Clicker & Rest



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.



TR-I Rest **NEW**
A newly developed tournament rest made to fit the EOLLA perfectly. Rest height and spring rigidity may be adjusted with the rest attached to the bow.



Flip rest EX



Flip rest II



Plastic rest

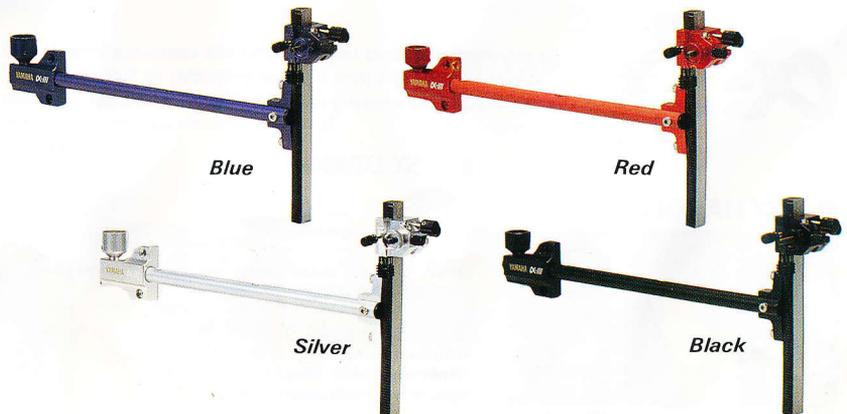


Clicker EX

■ Sight

YS-αIII **NEW**

Yamaha proudly presents the next generation in tournament sights. Placed on newly designed mounts, they provide optimal performance for today's high-velocity age. Firm against vibration, the extension provides maximum stability against cross wind interference.



Blue

Red

Silver

Black

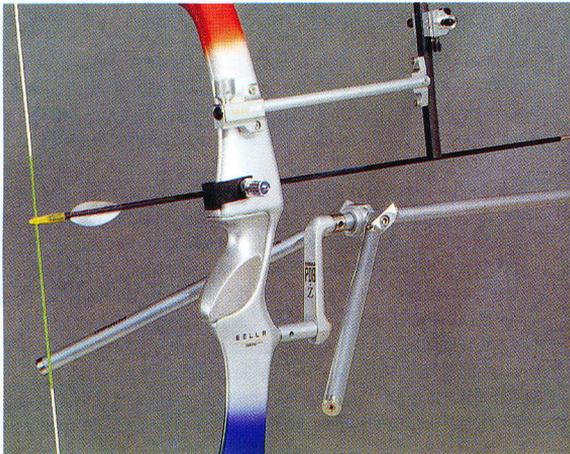
■ Stabilizer Adapter

PDS-Z **NEW**



■ Balancer

TDM **NEW**



“PDS”

The PDS is a pivot point-rotational stabilizer of ideal design and shape. The ideal in archery is realized when the positions of the pivot point, arrow pressure point and the center stabilizer are on a single line. If the construction of the bow places limitations on this relationship, however, this ideal cannot be achieved. It is in order to realize this ideal that Yamaha, after extensive and repetitive design testing, has created and patented (Pat. 01673033) a stabilizer that mounts onto a line extrapolated from the pivot point. These characteristics bring the direction of bow spring and of the arrow after release closer to the ideal of parallel movement, making possible instant suppression of undesirable movement and more precision in each shot.

“TDM”

The TDM balancer is a three-directional balancer which mounts onto the URS center stabilizer. The most important characteristic is that, unlike previous balancers which had to be fixed in place, the TDM may be adjusted according to the preference of the individual archer. Adjustment to the optimal position is simple and easy, and it provides the highest level of stability as can be achieved with any stabilizer available. In addition, the TDM may be directly mounted to the body of the URS rod without need of an extension rod, ensuring the rigidity and light weight of the rod, and increasing yet further the TDM's functionality as a stabilizer. Another of its excellent characteristics is the fact that either a 70 or 90 degree horizontal opening angle may be selected, improving the already outstanding feeling of stability available with the previous directly mounted URS stabilizers, as well as functional precision.

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.



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.

■ Un-Resonant Stabilizer

URS II-26, 30



carbon 26", 30" Black / Silver

URS-12, 14



carbon 12", 14" Black / Silver

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,

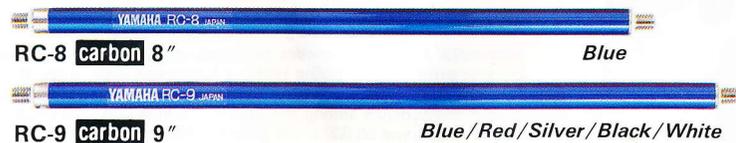
composition, rigidity, shaft weight, etc.. Stabilizer weights which are normally independent from the rod are used only for the purpose of adding weight to the stabilizers to adjust the inertia by moving the center of gravity of the bow and are not usefull for damping characteristics.

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:
 URSII-30:215G URE-04:58G
 URSII-26:200G URE-03:51G
 URS-14:144G
 URS-12:136G

■ Swing Rod: Carbon

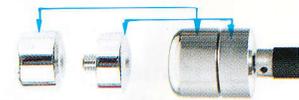


RC-8 carbon 8" Blue

RC-9 carbon 9" Blue / Red / Silver / Black / White



■ Damper Head



DH-3A DH-3B



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the National Archery Assn. of the U.S."**

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