

FORMULA

REDEFINING RECURVE

PARALEVER MOUNTING SYSTEM™

When we introduced Formula to the world in 2010, we knew it would shake up the status quo. Formula exceeded our wildest hopes, taking 30 times more gold medals in its first year than any other 2010 recurve bow.

Why does the Formula System work so well? One reason is synergy. Multiple synergies that decrease limb to riser stress, extract more stored energy from the dedicated Formula Series limbs, kill vibration and even improve the critical holding and aiming cycle used by most top shooters today. Another reason is simple, improved precision – the Paralever pocket is longer and much more precise than previous designs.

That's why Formula is firmly the choice of the world's top shooters, like OH, Jin-Hyuk, Viktor Ruban, Berengere Schuh, Simon Terry, and Natalia Valeeva. Formula continues to set records around the world, achieving incredible results, propelling Brady Ellison to his back-to-back World Cup Grand Final victories – and now, the #1 men's recurve world ranking.

Never stop pushing innovation. Never stand still. Never settle for "good enough". That philosophy is one that Hoyt and Hoyt shooters share, the most winning bows in the world, shot by the most-winning shooters in the world. And Formula is the result.



REDUCED VIBRATION & STRESS

The Formula Paralever Mounting System radically reduces stress and vibration by up to 44%.

Paralever also improves the accuracy of the limb to riser fit by 50%, making it the most precise limb fitting system in the world.



CUSTOM GRIP OPTIONS

All current Hoyt recurve risers are compatible with 2012 Hoyt grips. So, it's simply a matter of selecting your favorite. No matter which you choose, you'll have a torque-free, comfortable repeatable grip that works with you to promote a relaxed bow hand and effective follow through. All grips available in left or right hand.



BRADY ELLISON: 2X WORLD CUP CHAMPION

When Brady Ellison started down the difficult path of switching from compound to the recurve discipline with dreams of Olympic glory in his goals, no one predicted that in a few short years he would make history and become the undisputed #1 male recurve archer in the world.

Since picking up the new Hoyt Formula recurve in 2010, Brady has had an unprecedented streak of success on the world stage. Brady is now the most-winning shooter in the world. After winning two World Cup stages in 2010, he went on to take the Grand Final. In 2011, Brady exceeded anyone's wildest expectations, wielding his unstoppable Formula bow to an historic three World Cup stage wins in a row, and taking a decisive victory in the Grand Final once again, making him the first recurve shooter with back-to-back World Cup Champion titles.

FORMULA HPX

The new Formula HPX increases performance with a more aggressive and efficient geometry, yet gives up nothing in accuracy, stability or shootability. Tested and proven by some of the world's most accomplished shooters, the new HPX geometry extracts more energy from the draw and decreases vibration at all draw lengths. HPX's unique dynamics also promote faster aiming and a smoother follow-through. HPX's proven Paralever Limb System provides for a smooth draw allowing the choice of shorter than usual riser-limb combinations. This provides the option of even more performance gain possibilities for experienced shooters. Like all Formula series risers, HPX features Hoyt's exclusive Dynamic Flex Control, for enhanced riser follow-through and shot-to-shot consistency. Patent pending Pro Series limb bolts come standard. HPX risers are factory-equipped with the Hoyt high wrist wood grip and are compatible with all current Hoyt recurve grips. Available in 25 or 27 inch lengths, HPX is the new recurve performance benchmark.

FORMULA HPX™ 25" SPECS

25"
LENGTH

2.7 LBS. /1,224 GRAMS
MASS WEIGHT

FORMULA HPX™ 27" SPECS

27"
LENGTH

2.8 LBS. /1,270 GRAMS
MASS WEIGHT



PATENT PENDING PRO SERIES TILLER BOLT

Hoyt's new, patent pending Pro Series Tiller Bolt System allows the bolt head to pivot, allowing full contact between the entire contact surfaces of limb and tiller bolt no matter what tiller setting is selected. This improves vibration management and decreases wear and tear on the surface of the limb. The tough Delrin® liner prevents noise generation between the bolt and limb, and allows for an incredibly smooth weight or tiller setting even when adjustments are made while the bow is strung.

FORMULA RX

Now enhanced with Hoyt's new patent pending Pro Series limb bolt, Formula RX features traditional Hoyt geometry and an unmatched track record of success. Available in 25 or 27 inch lengths and factory equipped with the Hoyt medium wrist wood grip.

FORMULA RX™ 25" SPECS

25"
LENGTH

2.7 LBS. /1,224 GRAMS
MASS WEIGHT

FORMULA RX™ 27" SPECS

27"
LENGTH

2.9 LBS. /1,315 GRAMS
MASS WEIGHT

FORMULA EXCEL

Formula Excel™ puts Formula Series Paralever Pocket Technology within reach of the tightest archery budgets. The sleek, 25" Formula Excel delivers performance and value with a simple, reliable alignment system, the popular standard grip, and legendary Hoyt machined riser precision. Compatible with all current Hoyt grips and Formula Series limbs.

FORMULA™ EXCEL 25" SPECS

25"
LENGTH

2.5 LBS. /1,133 GRAMS
MASS WEIGHT

LIMB DAMPING BUSHING

Formula Series Limb Damping Bushing allows the use of accessories like the FUSE Limb Blade (shown here) or even a simple Doinker® suppression mount – to absorb vibration before it gets to the riser. This patent pending feature is exclusive to the Formula Series.



FORMULA RX

FORMULA LIMBS

THE PERFECT PAIRING

FORMULA SERIES CARBON F7™

The fastest Formula Series limb ever engineered. The all new F7 uses innovative Triaxial Carbon Technology- developed for demanding aerospace applications. F7 features enhanced recovery rates, optimal torsional stability and all-temperature performance, with the lowest total mass weight of any Hoyt recurve limb ever made. The use of triaxial and unidirectional quad carbon layers and a choice of either Hoyt's legendary Syntactic Foam Core Technology or traditional laminated hard rock maple cores result in more speed, decreased sound and vibration, and an astounding 1,000-dry-fire capability, for ultimate durability. F7 is the new podium leader. (Available in 22 to 50 lbs. in 2 lb. increments, short, medium and long lengths.) (All dry-fire testing is done by trained technicians with proper equipment. Dry firing (drawing and releasing a bow without an arrow) is extremely dangerous and should never be done. Hoyt's 1,000 dry fire test and standard is for Hoyt limbs only.



FORMULA SERIES CARBON F4™

Proven across the globe in all conditions, the carbon foam core F4 is fast, comfortable to shoot, and reliable, with high torsional stability. Like all Hoyt recurve limbs, F4 features dynamic alignment for a straight track through the entire power stroke. (Available in 22 to 50 lbs. in 2 lb. increments, short, medium and long lengths.)



FORMULA SERIES CARBON F3™

Hoyt's laminated hard rock maple core carbon F3 is a sweet-shooting, and shock-free limb with total reliability and high torsional stability. F3 brings quiet smoothness to the shot. (Available in 22 to 50 lbs. in 2 lb. increments, short, medium and long lengths.)



FORMULA SERIES CARBON F2™

F2's carbon laminates increase stored energy and increase efficiency for a punchy, positive feel. (Available in 22 to 50 lbs. in 2 lb. increments, short, medium and long lengths.)



FORMULA SERIES EXCEL™

The wood/glass powered Formula Excel™ is the ideal Paralever compatible starter, club and rental program limb, with a choice of three lengths in weights from 20 to 40 pounds. (Available in short, medium and long lengths in 2 lb. increments)

