

COVERT HUNTER



A new breed of super recurved hunting bows, exceptionally fast, stable, smooth and incredibly quiet. Designed with the most compact working envelope.

Ready for action in the tightest of spaces.



Covert Hunter



Covert Design Overview

Covert Hunter Product Overview 1st Jan 2014

You have our thanks for considering our products, that alone has great significance for us. Our efforts are focused on producing the very best possible. Producing the best, covers everything we do, but mainly manifests itself in our products. We suggest that you approach this new and exciting bow with an open mind as the CH design is unique and different from conventional designs.

Covert Hunter is a holistic view of the bowhunters' needs and creates a bow that tries to answer all of the needs of the archer in the field.

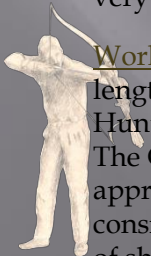
Speed -- The Covert Hunter is able to shoot heavier arrows at similar speeds or faster than most hunting bows achieve with lighter arrows. This major factor improves the hunter's reach, accuracy and with higher arrow momentum, improves the likely outcome of any encounter. The Covert Hunter design stores more energy than conventional designs and means that lower bow weights can be considered. This feature enables the archer to dominate the bow weight, better improving accuracy. Refer to graphs later on in this overview

Smoothness of draw - Covert Hunter has an exceptional draw-force curve with the pounds per inch gained over the last few inches of draw hovering around the 1lb per inch for bow weights commonly employed in hunting. Refer to the Inch Increment graphs farther on in this presentation!

Low weight gain over the last few inches of draw has several positive factors, the first is that it may enable the archer to increase bow weight slightly for even higher outputs and still maintain that all important and full concentration on the point to be hit on target. This feature also helps to increase the pleasure when shooting and this stimulates more practice, fuelling further improvements in accuracy. However the main advantage that I personally would consider is that it enables a fuller concentration on the execution of the shot as there is less distraction resulting from the accrued bow weight on the shoulders when coming to anchor at full draw. Accuracy is the prime objective!

Stability - The bow displays remarkable lateral and vertical stability emanating from the level of torsional stability crafted into the limbs and the extensive design work that went into the recurve design. This makes the CH very tolerant of arrow spine and shooting technique variations. The deep set deflexed geometry lets the bow settle better during the shot and reduces the effect of bow-hand torque. All in all a very forgiving bow to shoot!

Working envelope - The Covert Hunter has the most compact working envelope of any hunting bow we know of, bow length for bow length and this feature is an integral objective of the design that has been met in full. A poignant example of this is that the 60" Covert Hunter has an overall length when braced of only 53.5". Most conventional 60" recurves, the overall length would be approximately 57". The Covert Hunter over the full range of bow lengths available have effective working envelopes equivalent to conventional recurves of approximately two bow lengths shorter but have the same string angles at full draw of full length bows. The advantages are smoother more consistent release, giving greater control and accuracy. A "no compromise" answer to accurate and comfortable shooting from the tightest of shooting space!



COVERT HUNTER



Contents.

Bow dimensions, string lengths, brace heights, arrow weights. Expected arrow speeds, arrow momentum levels. Graphs DFC, Inch-increment, Energy per pound of Draw force

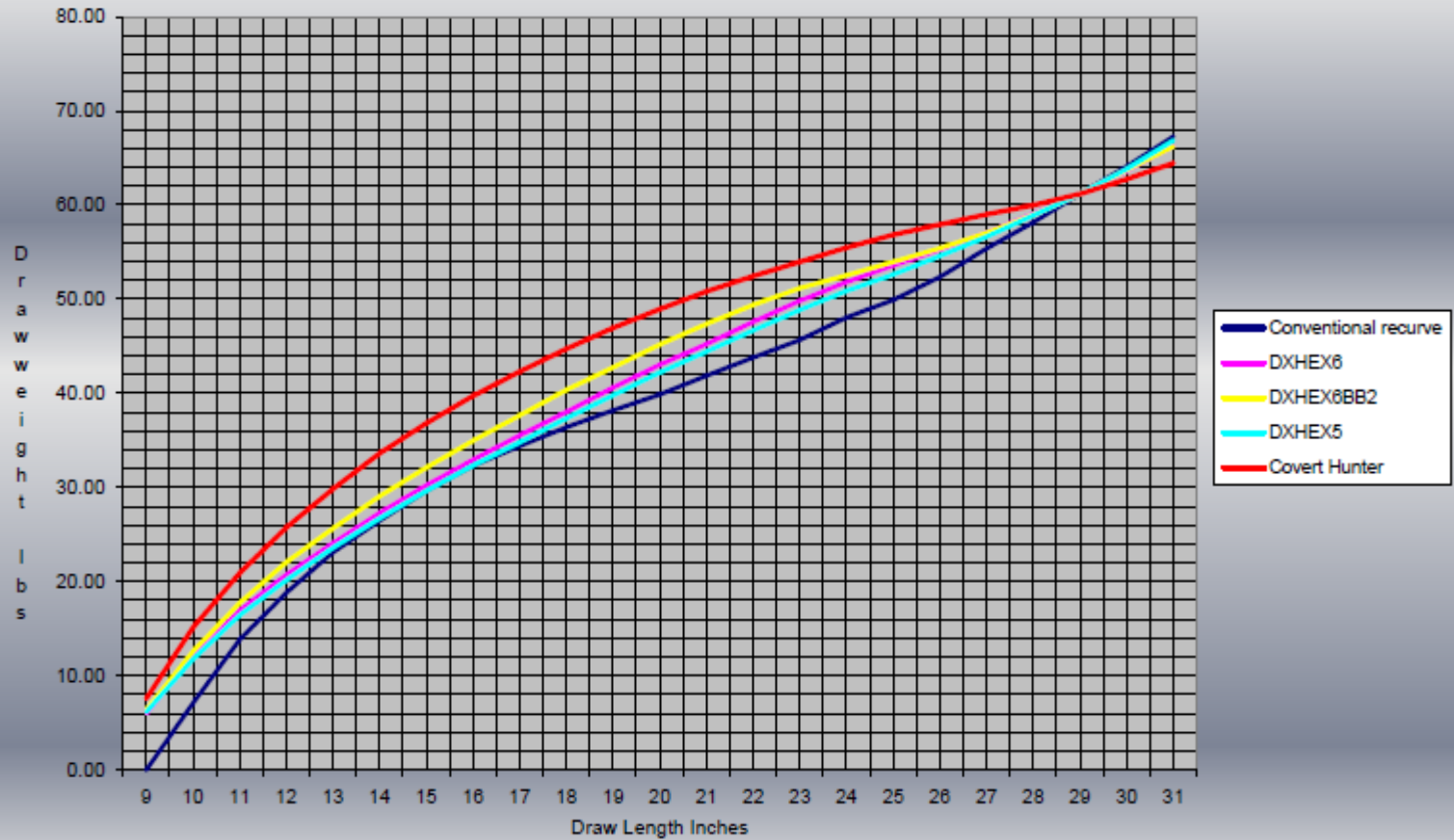
Pricing riser limbs and options, User considerations



COVERT HUNTER



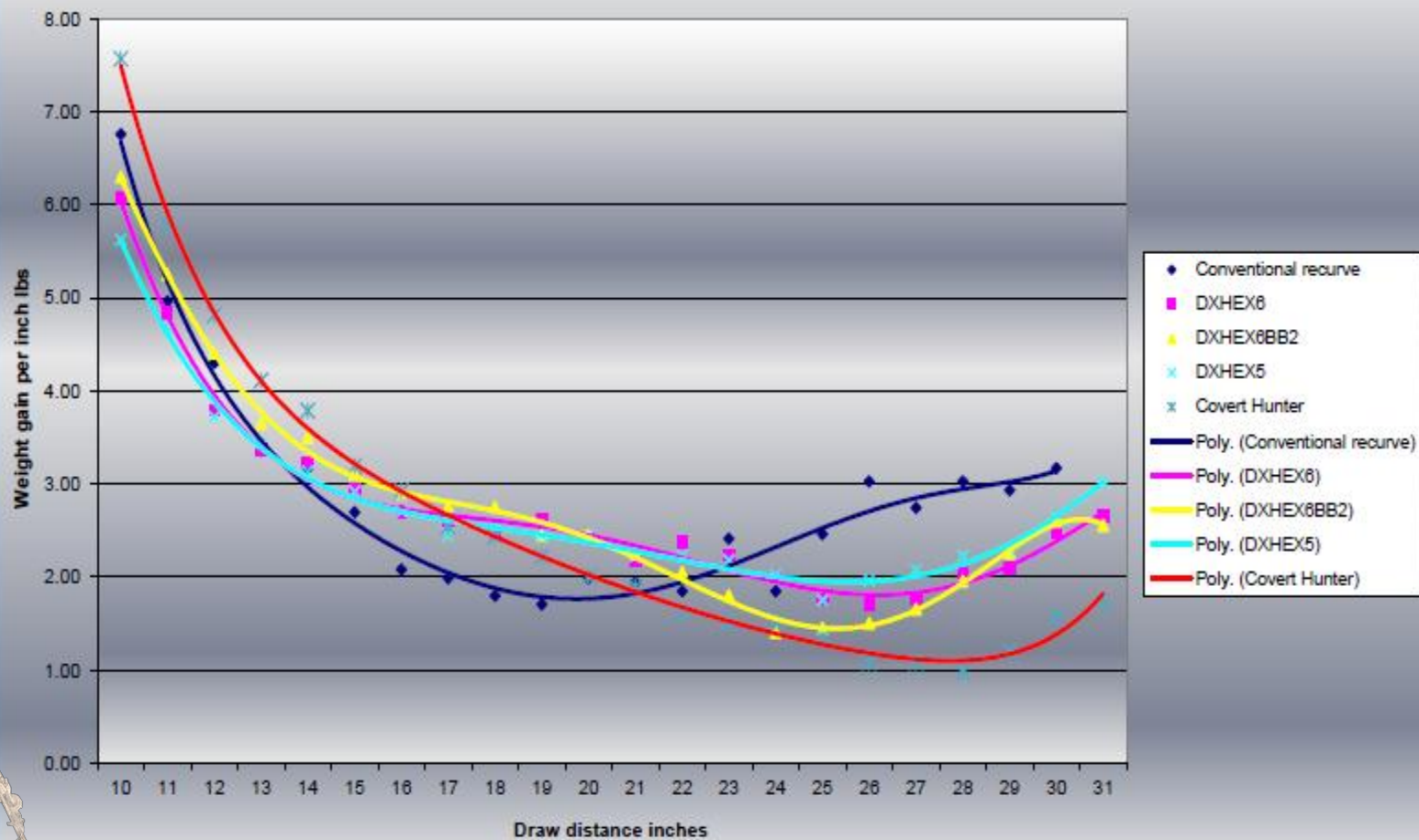
Covert Hunter DrawForce Graphs Comparison



COVERT HUNTER



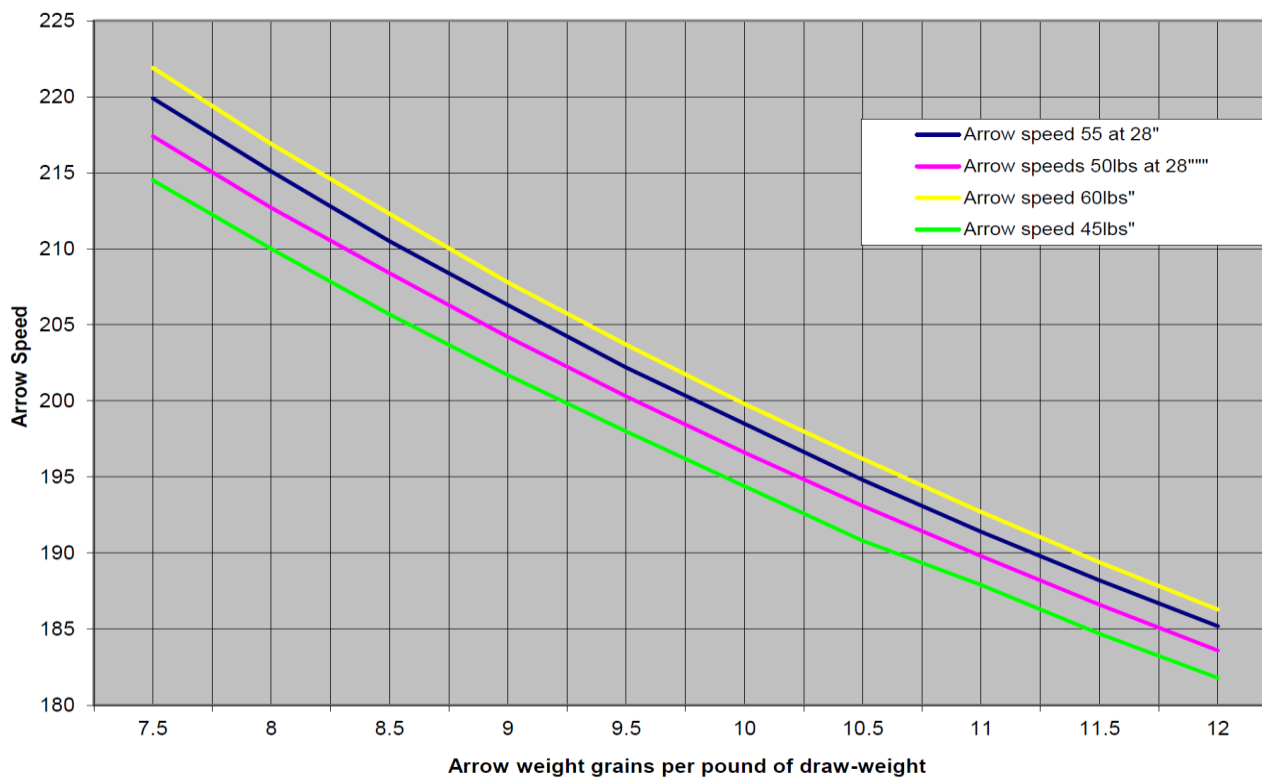
Inch Incremant Graph



COVERT HUNTER



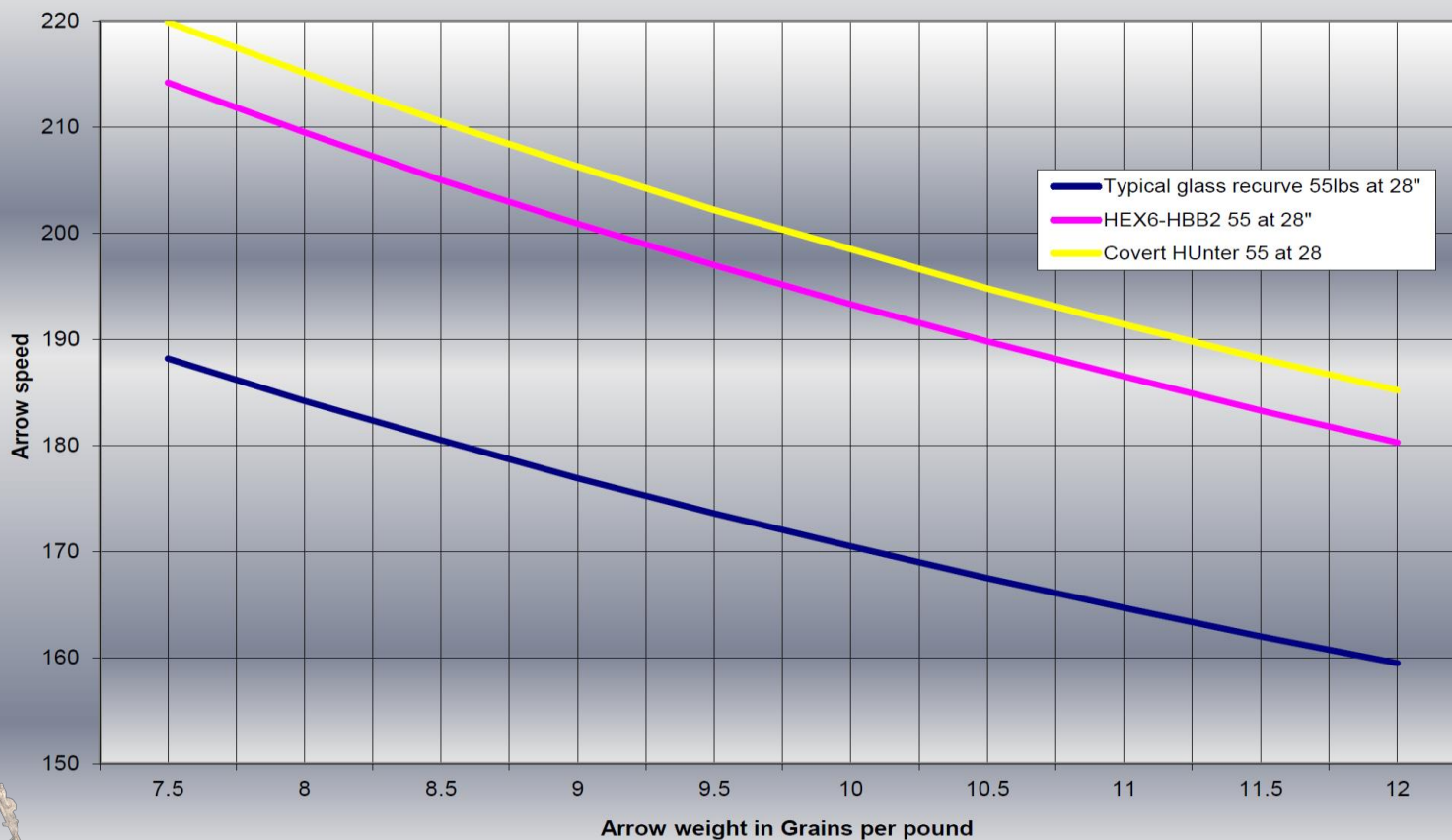
Covert Hunter Predicted Arrow Speed Guide 28" draw



COVERT HUNTER



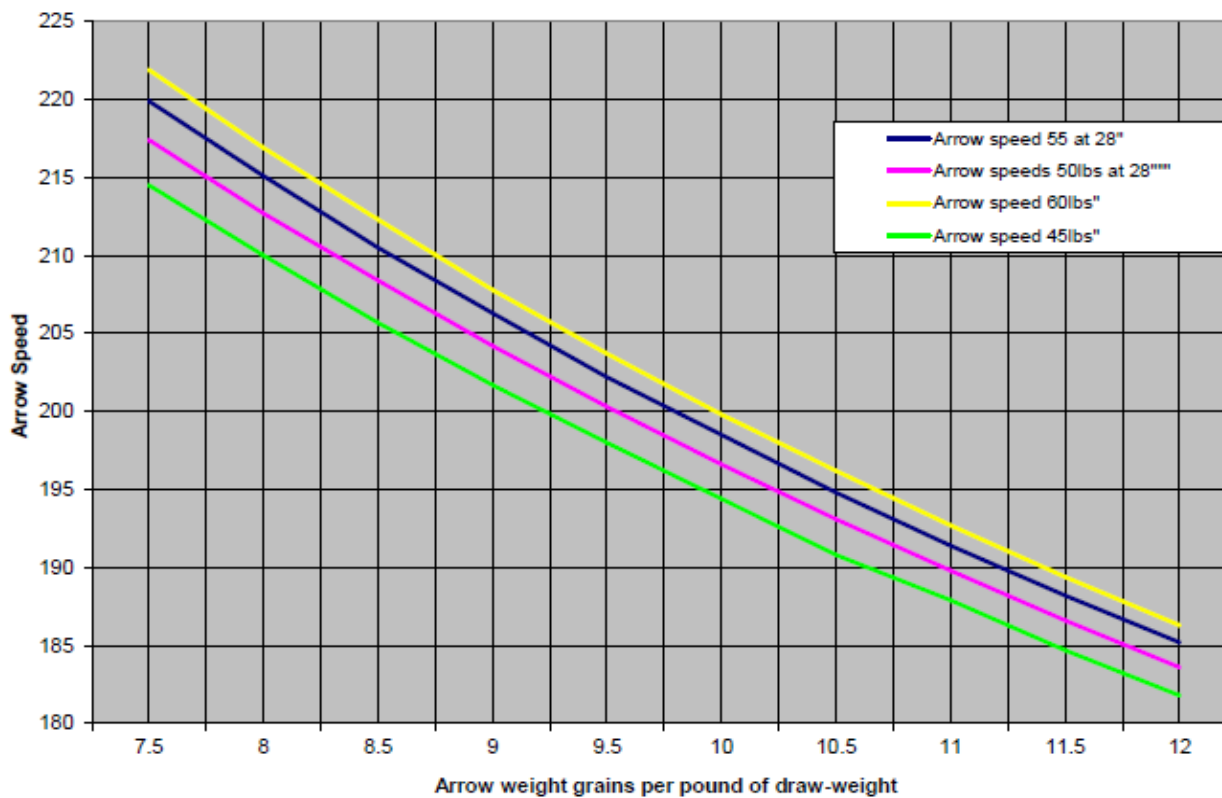
Comparison Covert - HEX6BB2 - Typical Glass Recurve



COVERT HUNTER



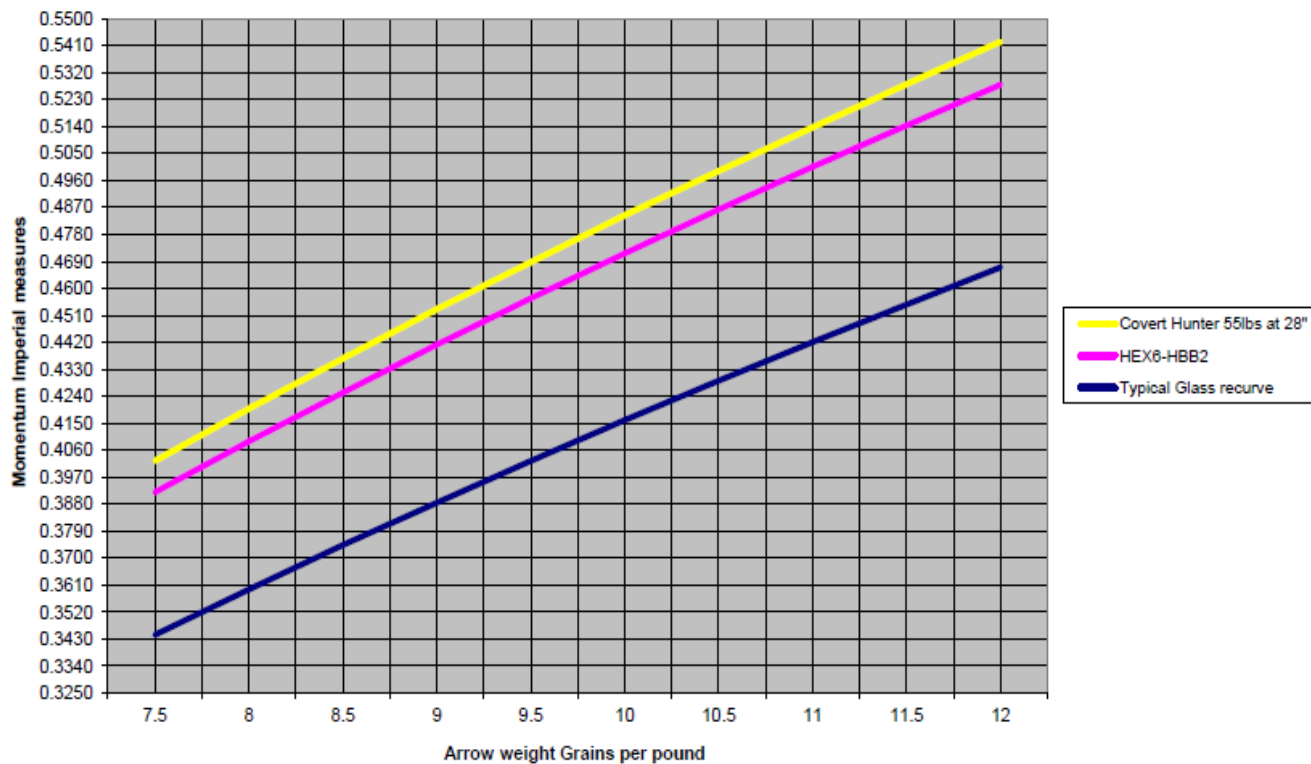
Covert Hunter Predicted Arrow Speed Guide 28" draw



COVERT HUNTER



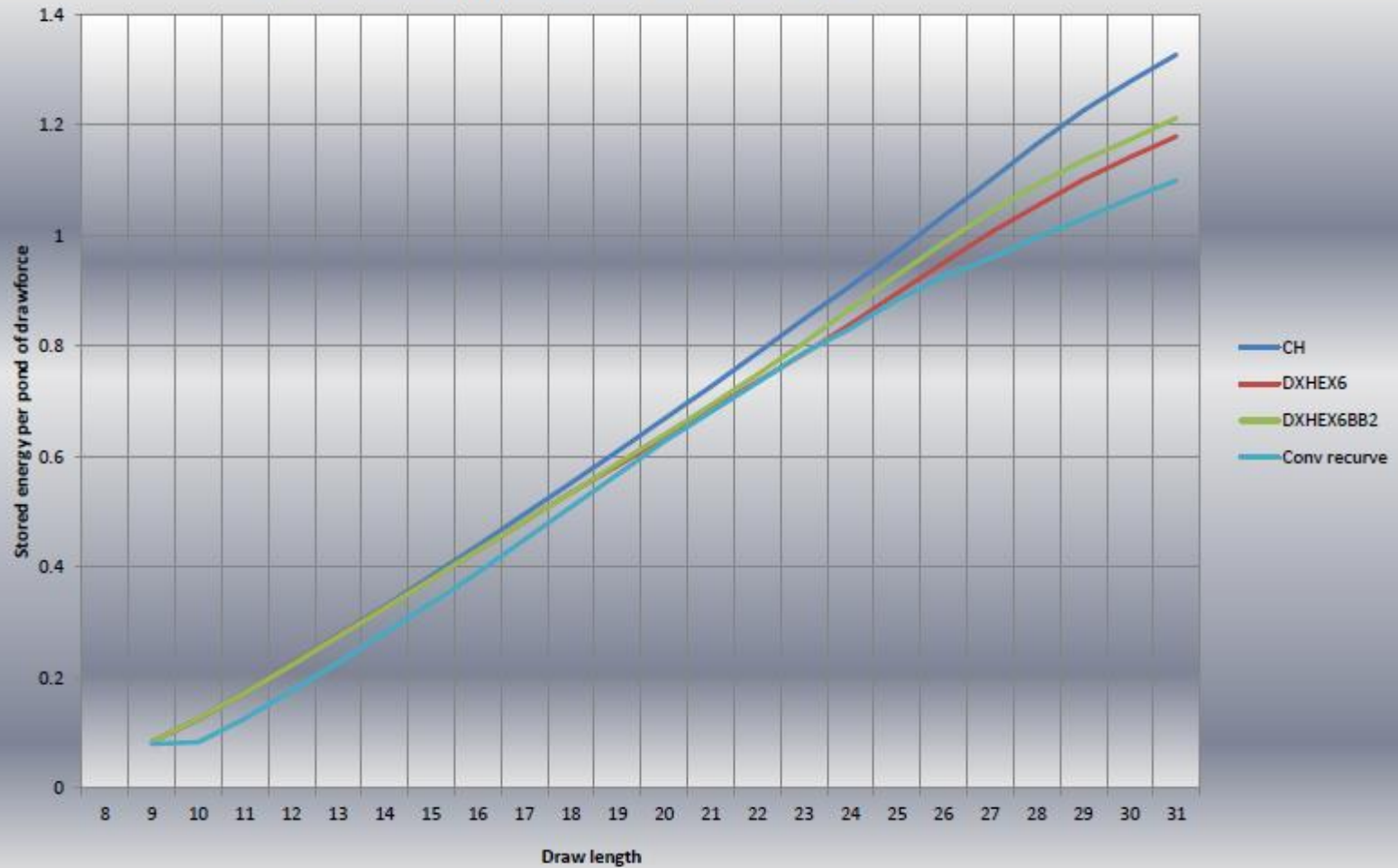
Comparison of expected momentum levels



COVERT HUNTER



Stored Energy per Pound of Drawforce



Covert Hunter

▣ Performance graphs and comparisons



Overall length when braced			Bow Length							
	58"	60"	62"	64"	66"	68"	70"	72"		
Ultra 17"	51.5	53.5	55.5	57.5						
Swift 19"		53.5	55.5	57.5	59.5					
Original 21"			55.5	57.5	59.5	61.5				
Tournament 23"				57.5	59.5	61.5	63.5			
Tournament 25"					59.5	61.5	63.5	65.5		
Brace heights			Bow Length							
	58"	60"	62"	64"	66"	68"	70"	72"		
Ultra 17"	6.5" to 7"	6.5" to 7"	6.75" to 7"	6.75" to 7"						
Swift 19"		6.5" to 7"	6.5" to 7"	6.75" to 7"	6.75" to 7"					
Original 21"			6.5" to 7"	6.5" to 7"	6.75" to 7"	6.75" to 7"				
Tournament 23"				6.5" to 7"	6.5" to 7"	6.75" to 7"	6.75" to 7"	6.75" to 7"		
Tournament 25"					6.5" to 7"	6.75" to 7"	6.75" to 7"	6.75" to 7"	6.75" to 7"	6.75" to 7"
String lengths	Covert Hunters need longer strings see examples below.									
	For a 60" Covert Hunter choose					an AMO string for a conventional 62" bow				
	For a 62" Covert Hunter choose					an AMO string for a conventional 64" bow				
	For a 64" Covert Hunter choose					an AMO string for a conventional 66" bow				
	ETC.									



Covert Hunter



- Bow lengths and recommended drawlengths

Bow length draw-length recommendations

Covert Hunter					
17" ILF riser					
Bow length		58"	60"	62"	64"
Max drawlength		28	29"	30	31
Recommended drawlength		25" to 27.5"	26" to 28.5"	27" to 29"	28" to 30"
19" ILF riser					
Bow length		60"	62"	64"	66"
Max drawlength		28.5	29.5	30.5	31.5
Recommended drawlength		26" to 28"	27" to 29"	28" to 30"	28" to 31"
21" ILF riser					
Bow length		62"	64"	66"	68"
Max drawlength		29	30	31	32
Recommended drawlength		26" to 28"	27" to 29"	27" to 30"	27" to 31"
23" ILF riser					
Bow length		64"	66"	68"	70"
Max drawlength		29	30	31	32
Recommended drawlength		26" to 28"	26" to 29"	27" to 30"	28" to 31"
25" ILF riser					
Bow length		66"	68"	70"	72"
Max drawlength		29.5	30.5	32	33
Recommended drawlength		26" to 29"	27" to 30"	28" to 31"	29" to 32"



Covert Hunter



Overall bow lengths and string angles
all bows are 60" AMO Bow length

HEX6 - v - HEX7



Covert Hunter more compact at
braceheight by one bow length

ILF - v - HEX7

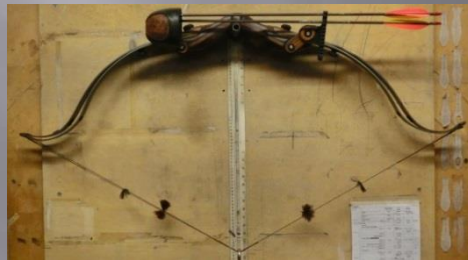


Covert Hunter more compact at
braceheight by almost two bow length

Longbow - v - HEX7



Covert Hunter much more
compact at braceheight



Covert Hunter and black
Douglas same string angles
at full draw 28"



Covert Hunter and ILF Black
Douglas same string angles
at full draw 28"



Covert Hunter and Hawk
Hunter longbow similar
string angles at full draw 28"



Covert Hunter

▣ Performance graphs and comparisons



The concept of the Covert Hunter is to be able to shoot heavier arrows at higher speeds than would normally be the case.

Heavier arrows are more stable to shoot and react less to shooting variations and the elements such as wind and rain. Heavier arrows travelling at the same speed as lighter shafts will have a flatter trajectory as they maintain speed through the air better and so achieve a higher average speed and so a better balanced trajectory.

The complete arrow weights depicted are absolute minimums and we would recommend using arrows at least 10% heavier. Operating your bow at the minimums may reduce the effective life of the limbs. These minimums are supported by our warranty cover. Shooting arrows below these weights voids warranty.

Note - shooting bows, all bows, with absolute minimum arrow weights and at the highest recommended brace heights, in addition using the shortest recommended bow length with highest riser to limb ratio for the longest possible drawlength will certainly shorten your bow's useful life. Each of these individually is okay but operates the bow at maximums however the combination of all or some of these will overload your bow and risks shortening the useful life of the limbs!



Absolute minimum total arrow weight for Covert Hunter										
Draw weights					arrows Covert Hunter					
75	684	686	691	698	709	722	738	757	777	
73	654	656	660	667	678	691	707	725	745	
71	624	626	630	637	648	661	676	694	714	
69	595	597	601	608	618	631	647	664	683	
67	566	568	573	579	590	602	617	634	653	
65	538	541	545	551	561	574	589	605	624	
63	511	513	517	524	534	546	561	577	596	
61	485	487	491	497	507	519	533	549	568	
59	459	461	465	471	481	493	507	522	540	
57	434	436	440	445	455	467	481	496	514	
55	409	411	415	421	430	442	455	470	488	
53	386	387	391	397	406	417	430	445	462	
51	362	364	368	373	383	394	406	421	438	
49	340	342	345	351	360	370	383	398	414	
47	318	320	323	329	337	348	360	374	390	
45	297	299	302	307	316	326	338	352	368	
43	276	278	281	286	295	305	317	330	346	
41	256	258	261	266	275	285	296	309	324	
39	237	239	242	247	255	265	276	289	304	
37	219	220	223	228	236	246	257	269	284	
35	201	202	205	210	218	227	238	250	264	
Draw lengths	25	26	27	28	29	30	31	32	33	

COVERT HUNTER



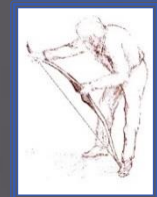
Recommended Bowstringing Procedures

Stringing bows has always been problematic even for such a simple operation. Get it wrong and it can lead to injury sometimes severe and or a broken bow. Bow failure caused by a bow destringing itself is always self evident in that the bow facings are usually intact but the cores are ripped through not along glue lines but through the materials itself. Bow failure often occurs some weeks or even months after the incident. Obviously damage caused by inappropriate handling is not supported by warranty but we do support through our Crash Replacement Support Program CRSP. So it is vital to spell out what is correct and what is not and why.

Correct bow stringing for Border bows is best achieved with the stringer provided as per the picture. The pocket should encapsulate the string and bow nock ensuring that the string is properly in the string grooves the rubber faced loop should be on other limb as shown and both feet should be on the stringer about shoulder width apart or slightly wider. This ensures that the stringer has a good angle of attack on the bow limbs and helps prevent the rubber faced loop sliding. Allowing the rubber faced loop to slide will eventually wear the surface finish and should be avoided. This is a simple task by supporting the loop end while the stringer is taking the tension during the initiation and again on the let down. The bow will string easily just as every other bow does.



Methods to be avoided at all costs is the push-pull method. The super recurves are too deep for this to be achieved safely.



The step through method historically has been responsible for many a twisted bottom limb. This is possible with Border limbs but unlikely due to the significant torsional stiffening crafted into our limbs. However if done carelessly then damage can occur to the nocks being forced into the ground and or the metal work normally found on boots damage the surface of the limbs. This method is much safer than the push-pull method however never as secure as in the proper use of a bow stringer.



COVERT HUNTER

Covert Hunter Risers



Available in riser lengths from 17" , 19" , 21" , 23" and 25" this combined with four limb lengths accommodates bow from 58" through to 72" .

Riser wood species selection - our only stipulation is that one of the woods has to be Sheduia the same rule we have with our Classic Black Douglas series. This rule ensures a match between every limb and riser set throughout the World and improves the resale value of limbs and risers, enabling our customers to trade on into the used market and helps defend the residual value Black Douglas and Covert Hunter bows and bow components as they trade up or down as their archery develops.

Optional woods are Honduras Walnut, Santos Rosewood , Indian Rosewood, Zebrano, Bubinga, European Walnut, Mulberry and Bocote, Cocobolo as and when available. Engineered woods are Heritage Midnight, Heritage Cocobolo, Heritage Walnut, Mountain Camo, Desert Camo, Jacaranda and Heritage Bloodwood to name but some.



COVERT HUNTER



Returns Policy, Warranty Support, Crash Replacement Support Program

Returns policy.

On receipt of product from us, should the it not suit, it can be returned to us for a refund of the product price. Returns must be back with us within 28 days of shipment and in a new condition in order to comply for this support.

Warranty Support

We offer a three year write down warranty support comprising; 100% support over the first 12 month period, 50% or half the cost of repair or replacement during the second 12 month and finally 25% of the product cost or repair during the final 12 month period.

Warranty covers workmanship and materials only. Fitting limbs to risers other than Border risers requires prior clearance by Border Archery failure to arrange our agreement will invalidate warranty support. Modifying product in any way without prior consent from Border Archery will invalidate all warranty support as will operating the product outside of Border Archer's product use recommendations Brace heights, min arrow weights and stringing procedures etc.

Crash replacement Support program This customer support program is applied at the discretion of Border Archery. Its intention is to support the original customer while he is the owner of the product with a replacement discount of 20% irrespective as to the cause of product failure.

Other considerations Product is sold ex works Scotland and therefore subject to Scottish law



Pricelist Retail Dollar 2014

Prices may vary without notice reflecting international exchange rate volatility
Covert Hunter complete bows



Covert Hunter risers 17" to 25!"with Wood core limbs	\$1,707
Covert Hunter risers 17" to 25" with HyperFlex Composite core limbs	\$1,797
Risers only	
Covert Hunter 17 or 19" or 21"	\$802
Limbs only	
BD Covert Hunter wood core limbs	\$905
BD Covert Hunter HyperFlex Composite core limbs	\$995
Options Limbs	
Custom colours and graphics apply to (sid@borderbows.com)	\$90
Woodland or desert Camo (three colour camo) or forrest pattern	\$63
Options Risers	
Timbers in Zebrano, Rosewoods, Honduras or European Walnut,	\$60
Timbers in Bocote, Cocobolo Makasser Ebony	\$130
Selection of timber quality example: (dark wood only)	\$90
Heritage Walnut or Heritage Cocobolo or Heritage Midnight	\$67
Buffalo Horn overlays	\$55
Carbon Overlays & Shields (see note)	\$55
Quiver extendor plates	\$33
Accessory/ stabiliser insert or plunger button insert	\$38
Extra Thumb Bolts	\$50
Custom window	\$75
Custom Grip	\$75
Gloss finish	\$90
None standard contrasting stripes	\$28
Accessories	
Extra Limb or riser cover pockets	\$30
One-Piece Recurve bag	\$47
Strings 14 strand 8125	
Flemish spliced strings two colours or endless loop single colour	\$25
Service customer's bows	
Refinish Bow matt	\$172
Reduce bow weight	\$172
Add bow bush single	\$75
Add bow bush double	\$110
Bow made to plus or minus 1lbs tolerance	\$55
Bow made to plus or minus 1/2 lbs tolerance	\$112

Model pricing represents Black limb finish and Shedua and Bubinga riser wood unless specified different. (see options for other selections)
Bowweights on target limbs are +/- 1lbs On Custom longbows and hunting recurves +/- 2lbs.
All stock bows as listed in "http://www.borderbows.com/news/16.html on our website are to +/- 0.5lb at no added charge
Refer to Minimum Arrow weight recommendations. See resources section on website

[All stock bows as listed on our website are to +/- 0.5 lbs Click here for stock bows](http://www.borderbows.com/news/16.html)



Pricelist Retail 2014

Jan Excl VAT Incl
 VAT VAT VAT



Covert Hunter complete bows

Covert Hunter risers 17" to 25!"with Wood core limbs	£1,022	£204	£1,226
Covert Hunter risers 17" to 25" with HyperFlex Composite core limbs	£1,076	£215	£1,291
Risers only			
Covert Hunter 17 or 19" or 21"	£480	£96	£576
Limbs only			
BD Covert Hunter wood core limbs	£542	£108	£650
BD Covert Hunter HyperFlex Composite core limbs	£596	£119	£715
Option limbs			
Custom colours and graphics apply to (sid@borderbows.com)	£54	£11	£65
Woodland or desert Camo (three colour camo) or forrest pattern	£38	£8	£46
Options Risers			
Timbers in Zebrano, Rosewoods, Honduras or European Walnut,	£36	£7	£43
Timbers in Bocote, Cocobolo Makasser Ebony	£78	£16	£94
Selection of timber quality example: (dark wood only)	£54	£11	£65
Heritage Walnut or Heritage Cocobolo or Heritage Midnight	£40	£8	£48
Buffalo Horn overlays	£33	£7	£40
Carbon Overlays & Shields (see note)	£33	£7	£40
Quiver extendor plates	£20	£4	£24
BowJax Limb vibration dampeners	£4	£1	£5
Quiver or sight inserts	£33	£7	£40
Accessory/ stabiliser insert or plunger button insert	£23	£5	£28
Extra Thumb Bolts	£30	£6	£36
Custom window	£45	£9	£54
Custom Grip	£45	£9	£54
Gloss finish	£54	£11	£65
None standard contrasting stripes	£17	£3	£20
Accessories			
Extra Limb or riser cover pockets	£18	£4	£22
One-Piece Recurve bag	£28	£6	£34
Strings 14 strand 8125			
Flemish spliced strings two colours or endless loop single colour	£15	£3	£18
Service customer's bows			
Refinish Bow matt	£103	£21	£124
Reduce bow weight	£103	£21	£124
Add bow bush single	£45	£9	£54
Add bow bush double	£66	£13	£79
Bow made to plus or minus 1lbs tolerance	£33	£7	£40
Bow made to plus or minus 1/2 lbs tolerance	£56	£11	£67

Model pricing represents Black limb finish and Shedua and Bubinga riser wood unless specified different. (see options for other selections)
 Boweights on target limbs are +/- 1lbs On Custom longbows and hunting recurves +/- 2lbs.
 All stock bows as listed in "<http://www.borderbows.com/news/16.html> on our website are to +/- 0.5lb at no added charge
 Refer to Minimum Arrow weight recommendations. See resources section on website

