

Border Bows





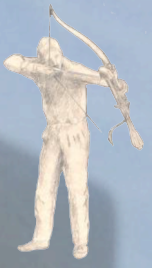
Covert Hunter & Black Douglas Bows

This range of new breed super recurved hunting bows has been substantially improved for 2016, with the introduction of the new HEX7.5 limbs giving Improved all round performance; noticeably faster, smoother and stable, and just as quiet. The working envelope of this new and exciting design is 3/4" more compact as well, always ready for action in the tightest of spaces. How do these improvements compare to conventional recurve and the new and improved Black Douglas HEX6.7 limbs ?



You have our thanks for considering our products irrespective as to what you eventually decide and buy. If you shoot a bow, any bow, we see you as one of us! We have been developing cutting edge bow technology for 19 years and while some may think the bows we make today are radical there has been 19 years of steady progression and each new design just one small step ahead of the previous one. Each a well proven concept and based on in-house testing and the customer feed back stretching back those many years and covering 1000's of archer along that time span. Radical describes a gigantic change and that is certainly not the case with our designs each is just a little step forward. Well we have advanced our designs once again for 2016. Certainly compared to other products that have not undergone any design development they do look radical but every step taken has a well proven record from the very first HEX1 design to the latest HEX7.5 a well proven record.

So how are we to evaluate these changes and understand what is totally on offer. The concept of value and performance are bed fellows and what and how are we to evaluate these against ?



Covert Hunter & Black Douglas Bows

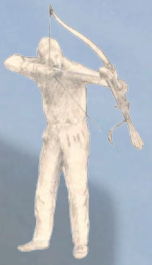
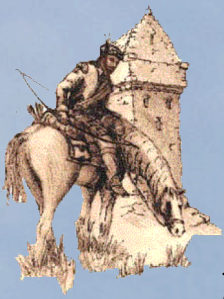
This range of new breed super recurved hunting bows has been substantially improved for 2016, with the introduction of the new HEX7.5 limbs giving Improved all round performance; noticeably faster, smoother and stable, and just as quiet. The working envelope of this new and exciting design is 3/4" more compact, always ready for action in the tightest of spaces. How do these improvements compare to conventional recurve and the new and improved Black Douglas HEX6.7 limbs? View the rest of the information provided.

Worth of note here is the substantial improvements to both the HEX6.7 and the HEX7.5. The HEX7.5 shows very significant improvements in both stored energy (speed) and smoothness and the designs forgiveness and tolerance to spine. The Black Douglas with the much improved HEX6.7 almost matches the performance of the Covert hunter and the older HEX7 limbs and this bow matches most other top end bows on price.



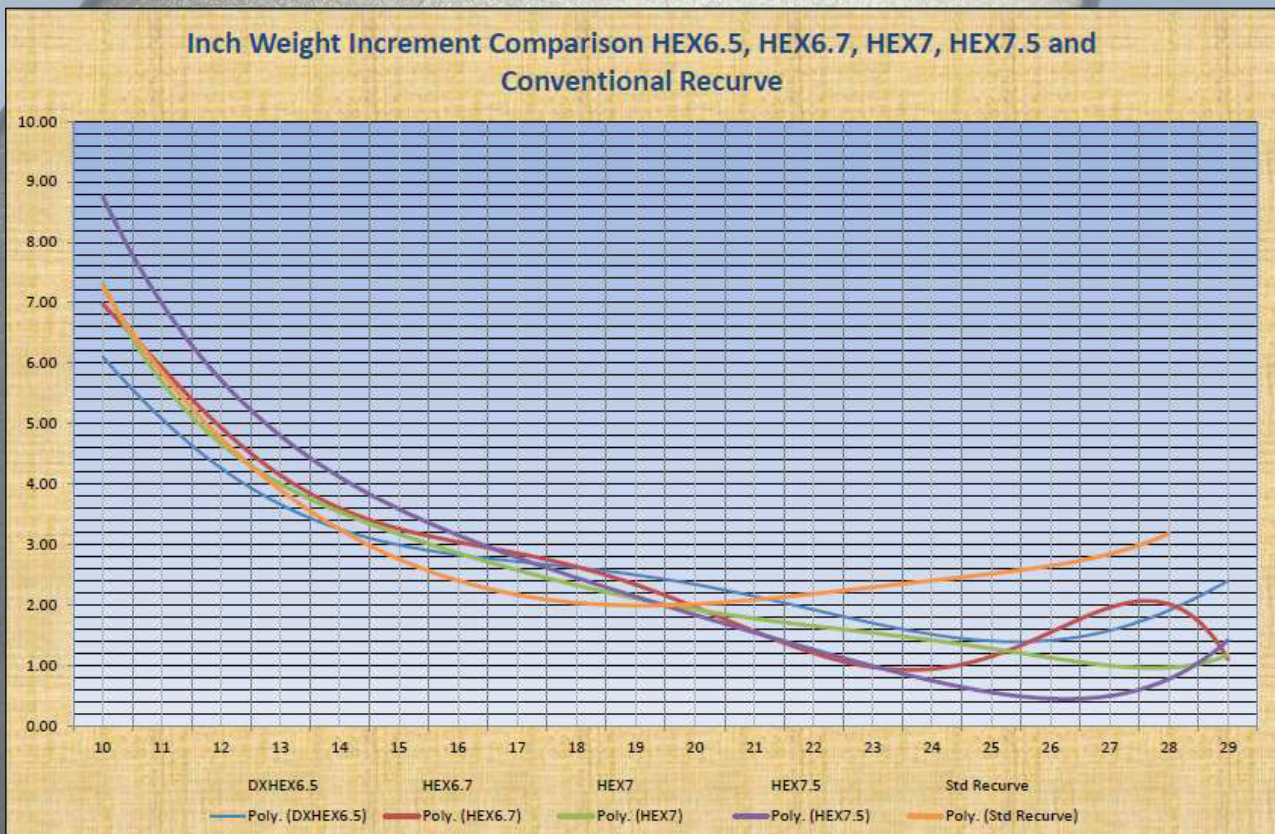
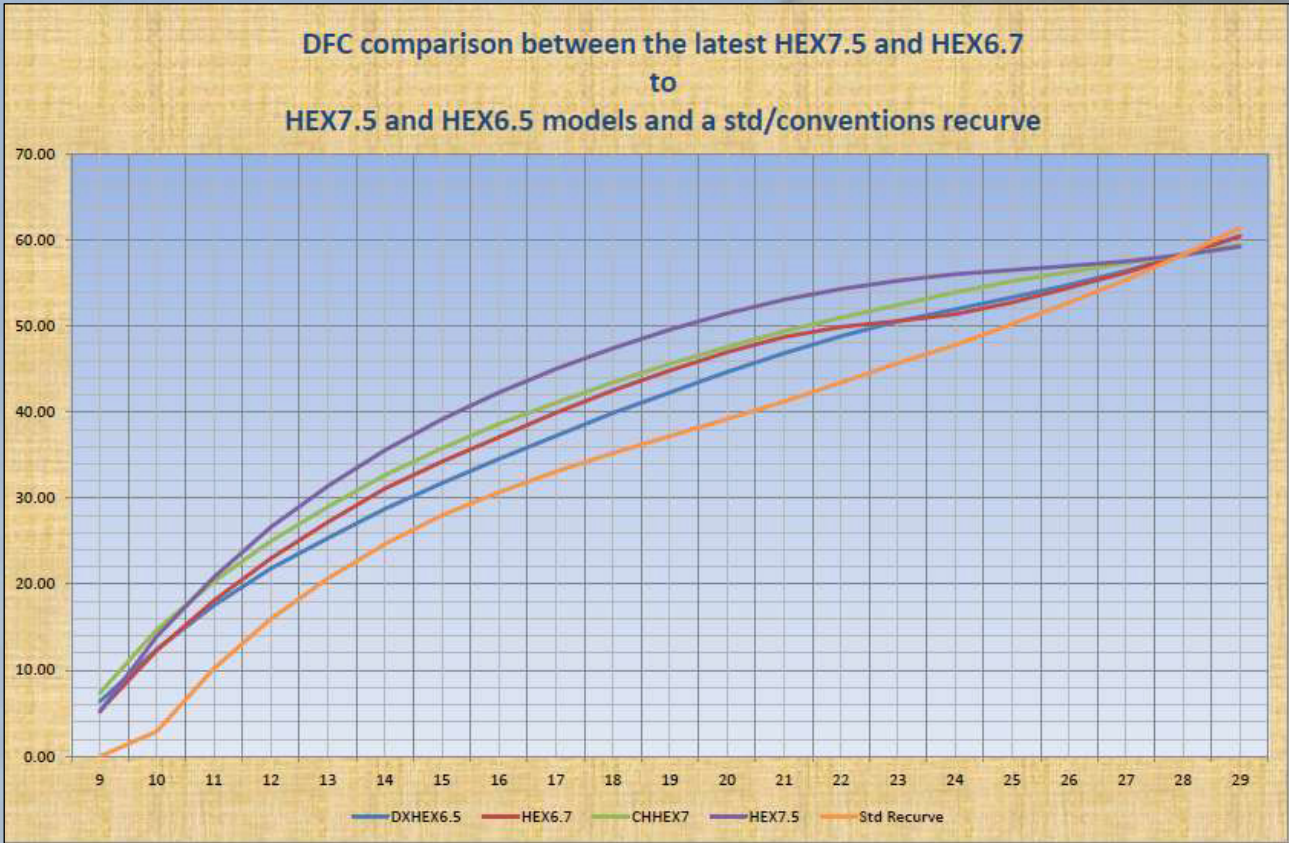
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*Bow dimensions, string lengths, brace heights, arrow weights. Expected arrow speeds, arrow momentum levels. Graphs DFC, Inch-increment , Energy per pound of Draw force,
Pricing riser limbs and options, User considerations*



Covert Hunter

Performance graphs and comparisons





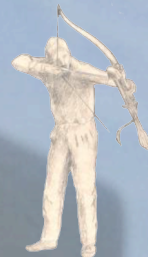
Covert Hunter

Performance graphs and comparisons

The values below compare speed and arrow penetration values (represented by arrow momentum values) between various bows; a well known and respected conventional recurve, the Black Douglas with the new improved HEX6.7 limbs, the Covert Hunter with the new high performance HEX7.5 recurves. All bows are 60" in length, 54lbs at 28". The HEX7 limbs have been included as they have become a benchmark in recurve performance and acts as a base comparator.

The values represented are derived by a computer bow that has been set up using real results from actual bows that have been mapped for DFC and stored energy levels at drawlengths commonly used for bows of this length. They are theoretically generated, but represent realistic values for comparative purposes and have been included to help with product selection based on a better more informed platform.

Speed	27" draw									
	Grains per pound of drawweight									
	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12
Std. Recurve	186.2	183.1	179.3	175.8	172.4	169.2	166.2	163.3	160.6	158
BD HEX6.7	209.8	204.9	200.6	196.3	183.7	188.6	185.1	181.9	178.8	175.7
CH HEX7	214.4	207.5	203	198.7	194.8	190.9	187.2	184.1	180.9	177.8
CH HEX7.5	218.2	213.3	208.7	204.2	200.1	196.4	192.7	189.2	185.9	182.9
Momentum	27" draw									
	Grains per pound of drawweight									
	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12
Std. Recurve	0.335	0.351	0.365	0.379	0.392	0.405	0.418	0.430	0.442	0.454
BD HEX6.7	0.377	0.393	0.408	0.423	0.418	0.452	0.466	0.479	0.493	0.505
CH HEX7	0.385	0.398	0.413	0.428	0.443	0.457	0.471	0.485	0.498	0.511
CH HEX7.5	0.392	0.409	0.425	0.440	0.455	0.471	0.485	0.499	0.512	0.526
Speed	28" draw									
	Grains per pound of drawweight									
	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12
Std. Recurve	192.4	187.9	183.8	180.1	176.4	173.1	169.8	166.8	163.9	161.1
BD HEX6.7	214.3	209.4	204.8	200.6	196.5	192.8	189.1	185.8	182.6	179.5
CH HEX7	218.7	213.6	208.5	204.7	200.6	196.6	193	189.6	186.2	183.2
CH HEX7.5	224.9	219.9	215	210.6	206.4	203.9	198.7	195	191.6	188.5
Momentum	28" draw									
	Grains per pound of drawweight									
	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12
Std. Recurve	0.346	0.360	0.374	0.388	0.401	0.415	0.427	0.440	0.452	0.463
BD HEX6.7	0.385	0.401	0.417	0.433	0.447	0.462	0.476	0.490	0.503	0.516
CH HEX7	0.393	0.409	0.425	0.441	0.457	0.471	0.485	0.500	0.513	0.527
CH HEX7.5	0.404	0.422	0.438	0.454	0.470	0.489	0.500	0.514	0.528	0.542



Covert Hunter

Performance graphs and comparisons

Covert Hunter Dimensions Brace heights and string lengths

Overall length when braced	Bow Length							
	58"	60"	62"	64"	66"	68"	70"	72"
Ultra 17"	51	53	55	57				
Swift 19"		53	55	57	59			
Original 21"			55	57	59	61		
Tournament 23"				57	59	61	63	
Tournament 25"					59	61	63	65

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 7.25"			
Original 21"			6.5" to 7"	6.5" to 7"	6.75" to 7"	6.75" to 7.25"		
Tournament 23"				6.5" to 7"	6.5" to 7"	6.75" to 7"	6.75" to 7.5"	
Tournament 25"					6.5" to 7"	6.75" to 7.5"	6.75" to 7.5"	6.75" to 7.75"

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.

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

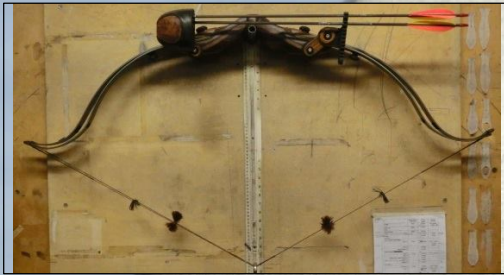


Covert Hunter more compact at braceheight by one bow length

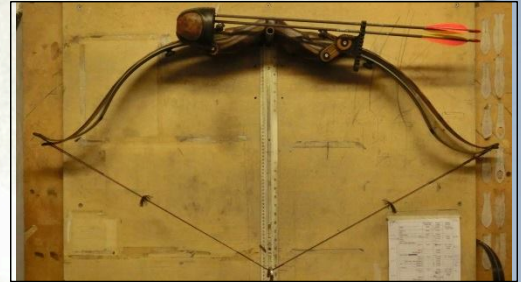
ILF - v - HEX7



Covert Hunter more compact at braceheight by almost two bow length



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"

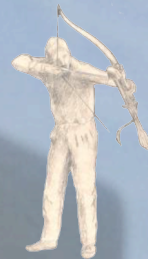
Longbow - v - HEX7



Covert Hunter much more compact at braceheight



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



Covert Hunter

Performance graphs and comparisons

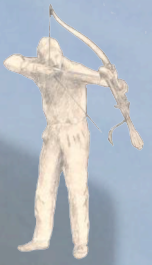
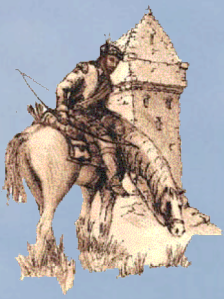
The concept of the Covert Hunter is to be able to shoot heavier arrows at higher speeds than would normally be the case.

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.

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

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!



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.

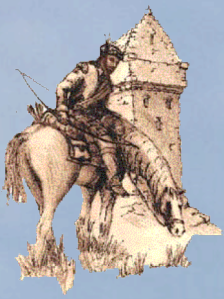


Methods to be avoided at all costs is the push-pull method. The super recurves are too deep for this to be achieved safely.



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 Shedua 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.

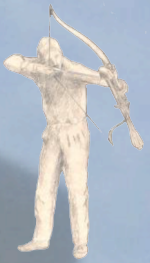
Optional woods are Honduras Walnut, Santos Rosewood, Indian Rosewood, Zebrano, Bubinga, European Walnut, Mulberry and Bocote, Cocobolo as and when available. Engineered woods are Heritage Midnight, Heritage Cocobolo, Heritage Walnut, Mountain Camo, Desert Camo, Jacaranda and Heritage Bloodwood to name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

- 1) 17" Ultra Indian Rosewood and Shedua
- 2) 17" Ultra Jacaranda and Shedua
- 3) 19" Swift Shedua and heritage Cocobolo
- 4) 19" Swift Heritage Walnut and heritage Cocobolo
- 5) 21" Original Wenge and Shedua
- 6) 23" Heritage Midnight and Shedua

Our policy is to use wood species that are harvested from sustainable forestry practices.

The recent practice of over harvesting certain species has led to severe shortages of Cocobolo, Bocote, Macasser Ebony and many more, threatening the sustainability of these tree species!





Covert Hunter

Returns Policy, Warranty Support, Crash Replacement Support Program

Returns Policy

On receipt of product from us, should 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.

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 Support

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 2016

Prices may vary without notice reflecting Exchange rate volatility

jan
XE531

Covert Hunter complete bows

Covert Hunter risers 17" to 25" with HEX7.5-W Wood core limbs	\$ 1,680
Covert Hunter risers 17" to 25" with HEX7.5-H Composite core limbs	\$ 1,763

Risers only

Covert Hunter 17 or 19" or 21"	\$ 753
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Limbs only

BD Covert Hunter HEX7.5-W wood core limbs	\$ 927
BD Covert Hunter HEX7.5-H HyperFlex Composite core limbs	\$ 1,010

Options Limbs

Custom colours and graphics apply to (sid@borderbows.com)	\$ 86
Woodland or desert Camo (three colour camo) or forrest pattern	\$ 60

Options Risers

Timbers Zebrano, Honduras or European Walnut	\$ 61
Timbers in Bocote, Wenge, Indian or Santos Rosewood, Burma Paduk	\$ 125
Selection of timber quality example: (dark wood only)	\$ 87
Heritage Walnut or Heritage Cocobolo or Heritage Midnight	\$ 64
Buffalo Horn overlays	\$ 54
Carbon Overlays & Shields (see note)	\$ 54
Quiver extendor plates	\$ 34
BowJax Limb vibration dampeners	\$ 6
Quiver or sight inserts	\$ 58
Accessory/ stabiliser insert or plunger button insert	\$ 40
Extra Thumb Bolts	\$ 49
Custom window	\$ 72
Custom Grip	\$ 72
Gloss finish	\$ 86
None standard contrasting stripes	\$ 28

Accessories

Extra Limb or riser cover pockets	\$ 31
One-Piece Recurve bag	\$ 46

Strings 14 strand 8125

Flemish spliced strings two colours or endless loop single colour	\$ 26
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Service customer's bows

Refinish Bow matt	\$ 165
Add bow bush single	\$ 72
Add bow bush double	\$ 106
Bow made to plus or minus 1lbs tolerance	\$ 55
Bow made to plus or minus 1/2 lbs tolerance	\$ 110

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.
Ref. Minimum Arrow weight, Braceheight and BowLength to DrawLength Recommendations
See resources section on website

Pricelist Retail 2016 Jan

jan
Excl VAT VAT Incl VAT

Covert Hunter complete bows

Covert Hunter risers 17" to 25" with HEX7.5-W Wood core limbs	£1,098	£220	£1,318
Covert Hunter risers 17" to 25" with HEX7.5-H Composite core limbs	£1,152	£230	£1,382

Risers only

Covert Hunter 17 or 19" or 21"	£492	£98	£590
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Limbs only

BD Covert Hunter HEX7.5-W wood core limbs	£606	£121	£727
BD Covert Hunter HEX7.5-H HyperFlex Composite core limbs	£660	£132	£792

Option limbs

Custom colours and graphics apply to (sid@borderbows.com)	£56	£11	£67
Woodland or desert Camo (three colour camo) or forrest pattern	£39	£8	£47

Options Risers

Timbers Zebrano, Honduras or European Walnut	£40	£8	£48
Timbers in Bocote, Wenge, Indian or Santos Rosewood, Burma Paduk	£82	£16	£98
Selection of timber quality example: (dark wood only)	£57	£11	£68
Heritage Walnut or Heritage Cocobolo or Heritage Midnight	£42	£8	£50
Buffalo Horn overlays	£35	£7	£42
Carbon Overlays & Shields (see note)	£35	£7	£42
Quiver extendor plates	£22	£4	£26
BowJax Limb vibration dampeners	£4	£1	£5
Quiver or sight inserts	£38	£8	£46
Accessory/ stabiliser insert or plunger button insert	£26	£5	£31
Extra Thumb Bolts	£32	£6	£38
Custom window	£47	£9	£56
Custom Grip	£47	£9	£56
Gloss finish	£56	£11	£67
None standard contrasting stripes	£18	£4	£22

Accessories

Extra Limb or riser cover pockets	£20	£4	£24
One-Piece Recurve bag	£30	£6	£36

Strings 14 strand 8125

Flemish spliced strings two colours or endless loop single colour	£17	£3	£20
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Service customer's bows

Refinish Bow matt	£108	£22	£130
Add bow bush single	£47	£9	£56
Add bow bush double	£69	£14	£83
Bow made to plus or minus 1lbs tolerance	£36	£7	£43
Bow made to plus or minus 1/2 lbs tolerance	£60	£12	£72

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.
Ref. Minimum Arrow weight, Braceheight and BowLength to DrawLength Recommendations
See resources section on website