

DARE TO BE DIFFERENT



R A N G E

2006

The answer to your question is YES, they do shoot as good as they look!

Impressive styling meets incredible performance. The new X-Range is the pinnacle of compound bow design.

But doesn't everyone claim to have the ultimate bow? That may be true... If you believe the adverts.

What we want to do is prove it to you. TRY ONE!

Break away from the crowd.

Shoot something different.

And you will never look back.



think SMART

15" long and very fast!
Our all new 'Multi-Core'
limb is our fastest and
toughest limb to date.



limbs

A 12 layer laminated
core is contoured, weighed
and then surface laminated
again with tension and compression
laminates. A reinforcing limb tip overlay is
added, they are weighed again and paired to
within 0.9% limb deflection.

One word. Awesome!

The Viper's are as fast as they come. Maximum energy storage through an
optimised force draw curve over 8 different cam sizes. 55%-65% let off with
a rock solid back wall.

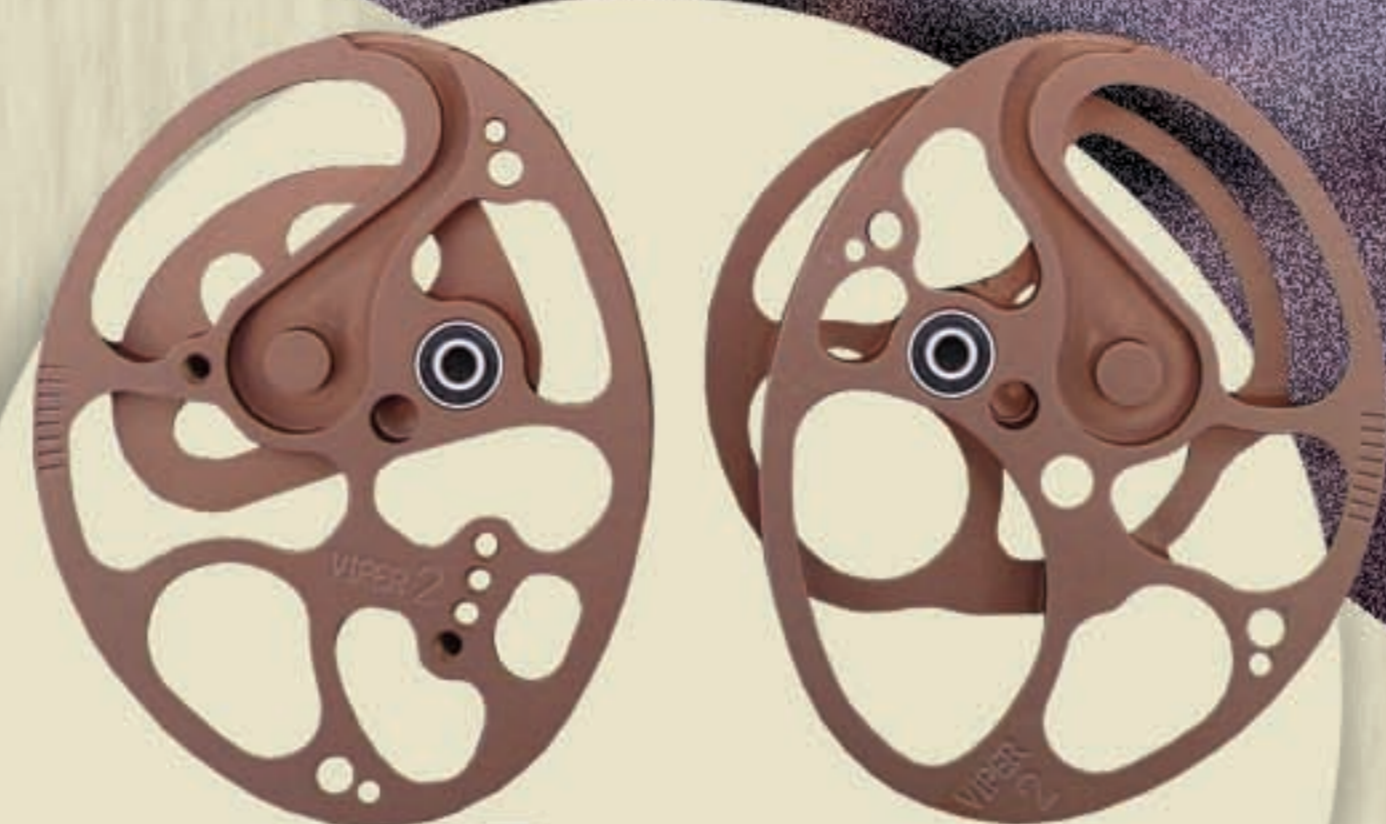
Reduced draw length adjustment of 1/2" per cam size and a steep force
draw curve makes this a cam designed for the more advanced archer.

The Alpha's feature up to 2" of draw length adjustment via removable modules. The more
gradual poundage gain through the draw makes them wonderfully smooth, while still offering
excellent arrow speed.

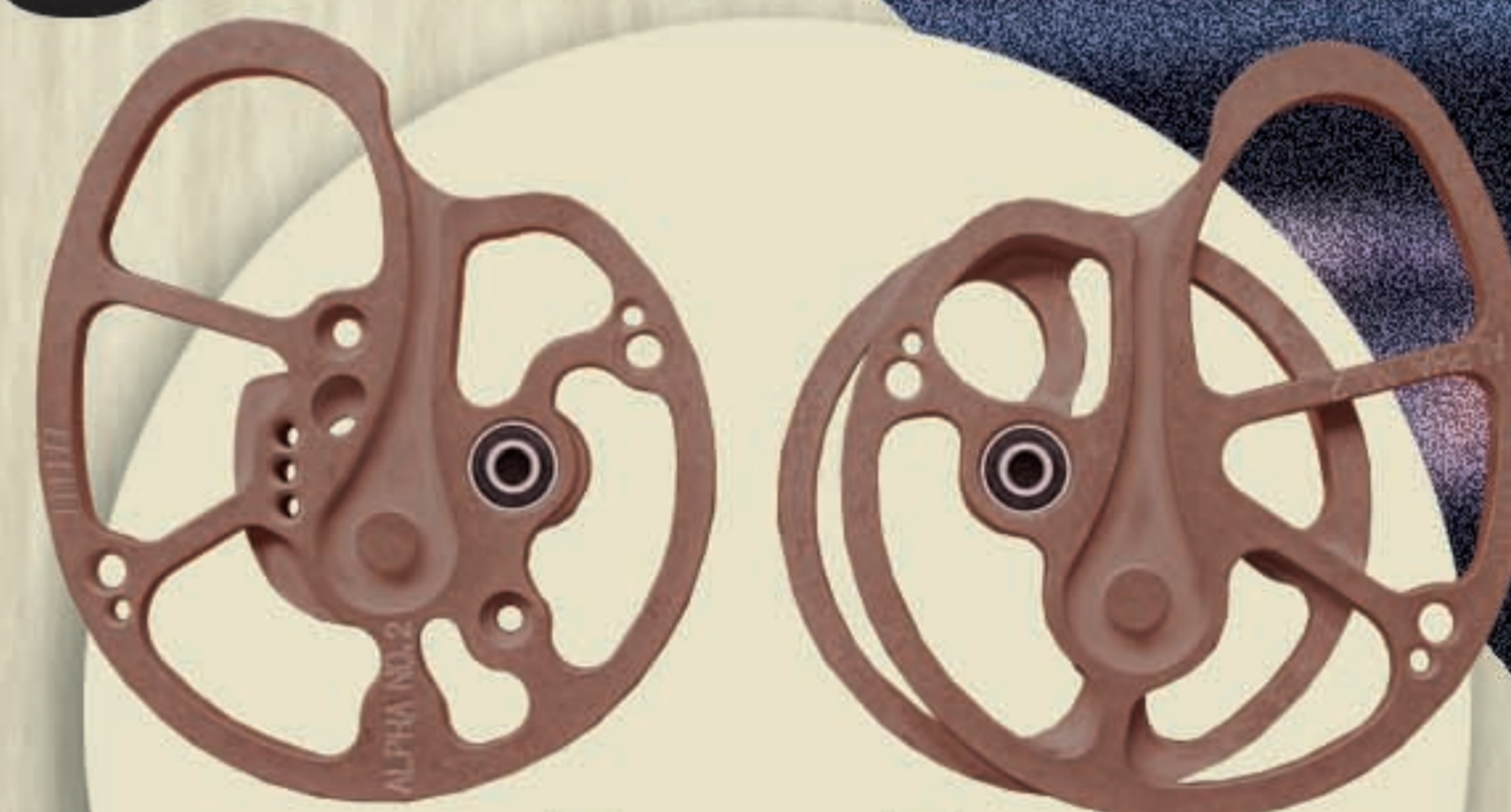
4 Cam sizes cover all draw lengths. The nocking point travel remains straight and level
through each module setting and each cam. 70% let off, firm back wall and very low vibration.

The foundation of any great bow is the riser. We pulled out all the stops to make the X-Range risers
something special. An amalgamation of form and function, the XS & XT are a cut above the rest.

Precision machined to exact tolerances from high grade 6082 aluminium. The XT riser starts life as a 30 pound
billet and is sculptured, polished and anodised before finishing up on a bow weighing less than 5lbs.



viper cams



alpha cams



riser

When considering your new bow, take a closer look. Peer beneath the
surface and look at its components. The way it's assembled.
The quality of its parts. Often what you don't see is more
important than what you do.

At Merlin we believe quality should be more than
skin deep. We strive to make every
component the best it can be.

So what we ask of you is your
consideration. Look past
the glossy ads and look
hard at the product.

Compare us, and we
know we'll come
out in front.

think **DIFFERENT**



If hunting's your game, then you'll understand there's nothing like it. The sound of the woods. The smell of the air. The way your heart pumps as that prize buck creeps into range. All those hours spent tracking, your endless patience waiting in the cold and the wet. They all fade to nothing. This is why you do it. For this moment. Can you focus? Can you keep your cool? Can you make the shot? This is what it's all about.

It should never be about your bow.

Shoot the best.

The Merlin X-Range.



XT

XS



WILD OAK

think **MERLIN**



FEATURES



The Viper and Alpha 'Hybrid' Cams.

Cams are the heart of your bow. They have a direct effect on almost every aspect of your bows performance. Of all the components on our X-Range, it was the cams that spent the most time in development. We worked hard to make sure they not only stored energy as efficiently as possible, but also delivered it in a smooth and controlled way. Different applications required us to build two different, yet highly optimised cams, that feel incredible and are simple to tune.



Colours.

Three base handle colours are available. The target bows are available in either polished silver or polished black with a charcoal sparkle limb finish. The hunting bows are finished in satin brown with black limbs and 'Wild Oak' highlights. The risers feature removable 'Crystal Domed' badges in over 30 different colours for the ultimate in customisation.



Why not let your personality shine and mix them up!

Its all in the detail.

Too many other bow companies cut corners when it comes to the details. Things they think you won't notice. For the X-Range, everything had an overhaul. From the humble cable guard mounting to the precision limb pockets. If we thought it could be done better, then we did it.

So next time you are looking for a new bow, remember that a quality bow is the sum of **all** its parts, not just a few.



Limbs

Our limb materials are manufactured by Europes leading composites technology company **EXEL**. They offer a 10% increase in fibre content, which ultimately increases strength and stiffness.

Strings and Cables

BCY 452X bowstring material is used as standard on all X-Range bows.



S P E C I F I C A T I O N S

Bow Specifications		
	XS	XT
Axle to Axle*	33" - 33 3/4"	38" - 38 3/4"
Brace Height (Viper)*	7"	7.5"
Brace Height (Alpha)*	7.25"	7.75"
Mass Weight*	4lb 2oz	4lb 8oz
Riser Length	22"	27"
Limb Length	15"	15"
IBO Viper*	320fps	315fps
IBO Alpha*	305fps	300fps
Draw Weights	30-70#	30-70#
Draw Lengths (Viper)	24"- 31 1/2"	25 3/4"- 33 1/4"
Draw Lengths (Alpha)	24 1/2"- 29 1/2"	26"- 31"

*Approximate measurement depending on configuration

Bolts and Threads	
Limb Bolt	M8
Limb Pocket Pivot Screw	M5
Limb Pocket Lock Screw	M4
Sight Mounting Thread	3/16 UNC
Stabiliser Mounting Thread	5/16 UNF
Arrow Rest Mounting Thread	5/16 UNF
Rear Weight Mounting Thread	5/16 UNF
Cable Guard Mounting Thread	5/16 UNF
Grip Attachment Screw	M5
Cam Post and Module Screws	M4
Axle Diameter	3/16"

String and Cable Lengths						
	String Length		Power Cable		Control Cable	
	XS	XT	XS	XT	XS	XT
Viper No.1	57"- 57 1/2"	62"- 62 1/2"	34 5/8"	39 5/8"	36 1/2"	41 1/2"
Viper No.2	57"- 57 1/2"	62"- 62 1/2"	34 5/8"	39 5/8"	36 1/2"	41 1/2"
Viper No.3	57"- 57 1/2"	62"- 62 1/2"	34 5/8"	39 5/8"	36 1/2"	41 1/2"
Viper No.4	53"- 53 1/2"	58"- 58 1/2"	34 5/8"	39 5/8"	36 1/2"	41 1/2"
Viper No.5	53"- 53 1/2"	58"- 58 1/2"	34 5/8"	39 5/8"	36 1/2"	41 1/2"
Viper No.6	50 1/4"- 50 3/4"	55 1/4"- 55 3/4"	34 5/8"	39 5/8"	36 1/2"	41 1/2"
Viper No.7	50 1/4"- 50 3/4"	55 1/4"- 55 3/4"	34 5/8"	39 5/8"	36 1/2"	41 1/2"
Viper No.8	48"- 48 1/2"	53"- 53 1/2"	34 5/8"	39 5/8"	36 1/2"	41 1/2"
Alpha No.1	57 1/2"	62 1/2"	34 5/8"	39 5/8"	36 1/2"	41 1/2"
Alpha No.2	57"	62"	34 5/8"	39 5/8"	36 1/2"	41 1/2"
Alpha No.3	53 1/2"	58 1/2"	34 5/8"	39 5/8"	36 1/2"	41 1/2"
Alpha No.4	50 3/4"	55 3/4"	34 5/8"	39 5/8"	36 1/2"	41 1/2"

Draw Length Selection Chart						
	Module	Draw Length			Draw Length	
		XS	XT		XS	XT
Alpha No.1	AL1	29 1/2"	31"	Viper No.1	30 3/4"- 31 1/2"	32 1/2"- 33 1/4"
	AL2	28 3/4"	30 1/4"	Viper No.2	29 3/4"- 30 1/2"	31 1/2"- 32 1/4"
	AL3	28"	29 1/2"	Viper No.3	28 3/4"- 29 1/2"	30 1/2"- 31 1/4"
Alpha No.2	BL1	28 1/4"	29 3/4"	Viper No.4	27 3/4"- 28 1/2"	29 1/2"- 30 1/4"
	BL2	27 1/2"	29"	Viper No.5	26 3/4"- 27 1/2"	28 1/2"- 29 1/4"
	BL3	27"	28 1/2"	Viper No.6	25 3/4"- 26 1/2"	27 1/2"- 28 1/4"
Alpha No.3	CL1	27"	28 1/2"	Viper No.7	24 3/4"- 25 1/2"	26 1/2"- 27 1/4"
	CL2	26 1/2"	28"	Viper No.8	24"- 24 1/2"	25 3/4" - 26 1/4"
	CL3	25 3/4"	27 1/4"			
Alpha No.4	DL1	25 1/2"	27"			
	DL2	25"	26 1/2"			
	DL3	24 1/2"	26"			

Viper Cam draw length changes are achieved by adjusting the rotation of the cam via the strings and cables.

Additional notes: Brace heights may vary depending on cam size, type and rotation. It is more important to use the axle to axle measurement as a point of reference, rather than brace height. Bows are supplied with a 10# adjustment window, though the actual adjustment range may be greater. E.g. a 50-60# bow may adjust through 15# and not 10#. IBO is the industry standard for measuring arrows speed. (350 grain arrow, 70#, 30"). Limb weight remains the same when changing cam sizes of the same model. Alpha Cams gain approx 8lbs of bow weight over Viper Cams when using the same limb.

1975 - 2006

Some of the most desirable, most exclusive products in the world are not made by the largest manufacturers, but by small, dedicated companies.

From sports cars to clothing. Shotguns to shoes.

Biggest doesn't mean best.

If you want the best, then count on a company who have dedicated themselves to producing compound bows for 31 years.

Count on Merlin.

For those who know the difference.



*Some may be content to bask in the afterglow of former success.
Others may claim revolutionary design. But Merlin will stand by
its future success.*

And continue to build the finest archery bows in the world.

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