

The Liberty 1

ADVERTISED AVERAGE ARROW SPEED ~ 309 FEET PER SECOND IBO!
Over a year ago 30 Liberty bows were sent to various dealers for testing.
All the problems discovered were corrected. This bow is ready!

Sitting around the camp fire at most bowhunting camps and archery competitions these days the question will always come up of "How much shorter can they make 'em'.... 32 inch, 30inch 29 inch who would know, well....**LIBERTY ARCHERY** has blown everyone away with their **Liberty 1 bow**, a high speed, high let off bow that measures around 20.5 inches axle to axle, in fact the bow sent for testing only measured 19 3/4 inches or 500mm from axle to axle, that's right, a tiny 50cm!

Now, at first glance many would consider this bow a "gimmick" but believe you me this bow has all the capability including speed (Advertised at 309 FPS) for taking out any Australian game!

Some might ask, Why such a short bow? Well..... I've had several times creeping through lantana choked gullies in search of stags where a 20 inch bow would have been far, far more practical than carting around a 40 inch bow that weighed more than twice as much as the Liberty bow, or sitting in a natural ground blind where a bare minimum of shooting space is cleared to remain undetected is another advantage to such a small bow. The original intent however was for Liberty archery to make a very small, light weight, complete hunting package that could be hooked onto a back pack without adding excessive weight and to make a small bow kit that could fit into the corner of just about any cars boot, I've even strapped it onto my day pack and together they easily fitted into a motorcycle gear sack, even the arrows for this bow I managed to cut down to 25 1/2 inches, a full 2 inches short of my usual hunting shafts, this was made possible by the unique riser/rest design incorporating the Whisker Biscuit arrow rest that works basically the same as an overdraw but retaining a fairly forgiving brace height of 7 inches!

During the research phase of the Liberty 1 design a physiology consultant was employed to calculate the energy expended while shooting the Liberty 1 as compared to a lower let off bow. His result was that shooting a 70 lb Liberty 1 bow

consumed the same energy as shooting a 60.56 lb competitors bow. Assumptions were based on a 2 second draw & 5 second holding time.

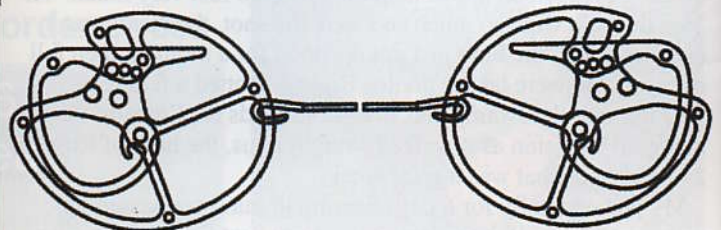
The benefits here for the hunter are obvious, if you draw on a game animal when his view of you is obstructed and wait until he has cleared the cover while waiting for the best shot opportunity to be presented, then an 85% let off bow will give you the extra time at full draw necessary to make that perfect shot!

To eliminate excessive weight Liberty incorporated a shoot through design for the riser which is made from A357-T6 Aluminium that is very strong and reduced the riser to near on 1/2 a pound and with the "A" frame structure that the separated limbs make you have a 3 point architecture for both sets of limbs that make the entire bow very stable. Apparently, this limb configuration also twists the Gordon composite core laminated limbs during draw adding what Liberty calls "Rotational Stored Energy"

By now most hunters using release aids have realized the advantages of using a string loop instead of hooking up directly to the string, the most important reason being the reduced adverse effect on arrow flight that can come about from hooking up directly to the string. Liberty Archery suggest that a sting loop is a must for the Liberty 1 and they'll get no argument from me, using a string loop does of coarse require a half inch or so reduction in draw length slightly reducing the bows maximum draw weight with the shorter draw but for most this would be a minor compromise.

The sting used on the Liberty 1 is a pre stretched Winners Choice bow string that is easily replaced or adjusted for inserting peep sights or kisser buttons using the supplied "Field" bow press, being an unfamiliar process I found the string changer slightly daunting to use at first but after several uses to adjust peep placement the process was found to be extremely simple.

At full draw, the string changer is firmly hooked onto the cams as pictured below to allow for easy string removal, replacement or adjustments making fitting kisser buttons or peep sight insertion and adjustments very simple!



RISER - A357-T6 aluminium riser
BOW LENGTH - approx 20.5" axle to axle (20.5" is not a misprint!)
MASS WEIGHT - 2.3 lbs, 2.55 lbs loaded
DRAW LENGTHS - 26 3/8 - 32 " (Left hand bows are available)
Draw Length adjustable by only +/- 1/8 inch.
No modules, unique cam per draw length.
DRAW WEIGHTS - 40-50lb up to 72-82lb (order by peak weight)
STABILIZER MOUNT - Center Front, 5" long fits case.
PEEP SIGHT - String angle requires special peeps.
SIGHTS - Only the site head is used.
CAM - High speed, high let-off, split cable design.
HOLDING WEIGHT - 10.5 lbs for 70 lb bow. Approx 85%
BRACE HEIGHT - 7"
AVERAGE ARROW SPEED IBO - 309 fps AMO - 242 fps
HANDLE - Lightweight cushioned synthetic rubber angled at 29 deg.
STRING - Winners Choice (prestretched)
CAMO - RealTree Hardwoods High Definition Green-Jordan
VIBRATION & NOISE REDUCTION - Sims String Leeches & Bow Jacks cable silencers.



ABOVE ~ Bow Jacks reduce cable noise and the 3 size peep set are designed for the extreme string angle.

CARRY CASE ~ The bow received for testing came with it's own compact protective bow case with additional storage "Cut outs" for other items such as release aids broadhead boxes or rangefinders and such.

SIGHTS ~ Light and compact the VITAL bow sight is perfectly designed for the Liberty 1.

RISER ~ More of a handle than a riser the Liberty 1 Riser is made from A 357 - T6 aluminium, the same material used for jet impeller blades!



So, how does it shoot? Initially the bow felt a little awkward, no surprises there, this bow is of a fairly radical design after all, however, after a few sessions the **Liberty 1** become very comfortable to shoot and at this stage I decided some serious paper testing and bare shaft shooting was required, Liberty Archery suggest setting the stings nocking point, ie ~ the string loop, dead center between the axles providing for extremely level nock travel, the next step was to fine tune the centershot and elevation of the Whisker Biscuit rest, with a few minor adjustments to the rest during shooting sessions I had bare shafts punching bullet holes

through the paper at 5 yards, Nice!

Out at our local club I shot the morning round with a bow I'd been shooting very well this past few months coming in with a 366 out of a possible 400, then in the afternoon I'd topped the mornings round 10 points higher with the **Liberty 1**, a 376 round out of a possible 400 with a bow I was still not entirely familiar with!

Initially the bow was set up shooting 3D Viper carbon shafts weighing 330 grains and coming out of the bow set on 58 lbs at 5.68 grains per pound, a pretty good recipe for shooting the unknown distances of 3D or hunting without a rangefinder, even shooting such light weight arrows the bow was still very quiet to shoot and recoil or hand shock seemed virtually non existent!

I can't wait to get to my favorite ground blind overlooking a Red deer wallow and really put this little ripper to the test!

At the time of printing no contracts have been finalized with Australian retailers for importing the Liberty 1 bow, therefore you should contact your preferred archery pro shop for prices or to order your Liberty 1 bow.

For more information see ~ www.libertyarchery.com



ABOVE and RIGHT ~ Countless numbers of bowhunters know the advantages of hunting from natural ground blinds or hides and at only 19 and three quarter inches axle to axle the all new Liberty 1 is the perfect hunting compound for shots from ground blinds or thick scrubby hides.

From even the most awkward sitting positions this bow was easily maneuvered, quiet and proved to be accurate for deer size game beyond my usual maximum effective range!

