

Bladerunner ISO-Force



After nearly 17 years in the making, Bladerunner Archery and their ISO-Force bow were introduced to the bowhunting community in 2005. The entire company is based on the belief that an isometric system is the most efficient and effective means to propel an arrow. Webster defines the term isometrical as: Having equal dimensions or measurements.

From top to bottom the ISO-Force is unique. It has a stout machined riser that measures only 21.5 inches at its greatest linear length. The resulting compact axle-to-axle length of 26 inches is eye catching. A reflexed geometry measuring a full three inches allows for a longer power stroke and increased speed. Pylons attached near each end of the riser protrude back toward the shooter and house the cylindrical limb bolt anchors and the majority of the

ISO's eccentric system. These pylons are a critical component in the overall isometric design of the Bladerunner and allow for the elimination of a cable guard. Draw weights from 40 to 70 are made possible by the relatively long threading surface provided by the limb bolt anchors. Strings and cables can easily be changed in the field—no bow press required. A custom laminated wood grip rounds out the riser.

Working in conjunction with the pylons is a multi component eccentric system that balances the cable and string system symmetrically on the bow. Each half of the system consists of an idler wheel, intermediate spool, minor cam lobe, major cam lobe and synchronizing spool, all of which run on sealed ball bearings. The intermediate uptake spool combined with easily changed modules allows for a tremendous draw length range of 26 to 32 inches in half-inch increments. In effect, this is a dual cam system that steps the cables and cams to the outside without inducing torque into the equation, as does a cable guard. The resulting forces are equally and centrally distributed (ISOMETRIC) in line with the idler wheels, centerline of the limbs and riser and in the end, and most importantly, the center of the arrow. Benefits of this configuration include the elimination of cam lean, limb twist, and timing problems plus reduced arrow paradox. This considerable reduction of paradox does two things. First, it improves down range performance, i.e., speed and penetration. In turn, archery hunters are given ample reason to not "over-bow" themselves. In other words, you can put less of your energy into this bow

SPECIFICATIONS

Manufacturer: Bladerunner Archery, Dept. PB, 5073 Bristol Industrial Way, Buford, GA 30518; (334) 260-9610; www.bladerunnerarchery.com

Model: ISO-Force

Draw Weights: adjustable 40 to 70 pounds

Draw Lengths: 26 to 32 inches, modular

Riser: Machined 6061-T6 aluminum, reflex

Limbs: Gordon Power-Tuff, split

Mass Weight: 4.9 pounds

Letoff: 65-percent, nominal

Grip: One-piece laminated wood

Brace Height: 7.25 inches

Axle-To-Axle Length: 26 inches

Finish: Realtree Hardwoods HD Green

Advertised IBO Speed: 296 fps

Suggested Retail Price: \$749.00

Comments: A shock and vibration free shooting experience!

At only 26 inches, Bladerunner's isometrically designed ISO-Force launches arrows with little recoil or vibration. A multi component eccentric system harnessed by pylons eliminates the need for a cable guard and in turn removes efficiency robbing torque. The versatile ISO-Force is capable of seven inches of draw length and 40 to 70 pounds of draw weight adjustability on the same bow!

The UPSHOT

CRAFTSMANSHIP	GRIP ERGONOMICS	FINISH	DRAW CYCLE	RECOIL	SHOT NOISE	NOTES
Bladerunner crosses their T's and dots their I's on every front.	Concentrates pressure on a relatively small surface area to reduce torque.	The film dipped pattern is flawless from top to bottom.	The unique eccentric system produces a steep, yet smooth, draw.	None! You can barely tell you've dropped the string!	In step with the absent recoil—very little noise.	The ISO-Force offers extreme maneuverability and versatility in a recoil free package!

and still get the performance of a higher poundage rig. That's a great benefit for many shooters.

At the Range

Bladerunner provides a unique centershot alignment tool that is precisely contoured to match the shelf geometry. The overall isometric design requires a dead center nocking point, which together with the centershot tool positions the arrow exactly where it needs to be for paradox free flight—dead center. Using this tool the ISO-Force was set up with a Quick Tune 3000 arrow rest, 350-grain carbon arrow and set to a 29-inch draw length and 70-pound pull.

Bladerunner claims that no further tuning is needed once set-up with the tool is complete and that perfect "bullet" holes can be expected when paper testing. That claim was substantiated with a quick paper-tuning test that resulted in nearly perfect paper tears.

Speed was measured with an Oehler M35 Chronograph and the readings were backed up by a Pro Chrono. Averaged over 10 shots the ISO-Force produced speeds of 273 fps. This number would most likely correlate to an IBO speed somewhat less than that advertised. Bladerunner states that the ISO-Force maintains a greater percentage of downrange speed than others bows. During testing the ISO-Force maintained 98-percent of its speed at 25 yards while a competitor's model with the same setup maintained 94-percent.

The ISO-Force has an absolutely shock and vibration free release. Maneuverability is an obvious strong-point and downrange performance is excellent. The added structure needed to create an isometric rig also contributes to a relatively high mass weight of 4.9 pounds. Stability of this short bow is aided by the comfortable 7.25-inch brace height.

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