



BILL KRENZ

# FIVE STAR BOW REPORT

## MATHEWS DRENALIN

Adrenalin is a good thing. It's a natural hormone produced by your adrenal gland that increases blood flow, heightens pulse rate and boosts physical performance, and is most often produced as a physiological reaction to excitement.

It's often been said that bow-hunters are natural adrenaline junkies. We yearn for the heightened sense of awareness and the feeling of well-being that sunrises and crisp fall mornings can bring. We crave the heart-pounding sight of big deer, elk and bears. We knowingly embrace the adrenaline rush that all those things can bring.

One of the newest and most exciting bows from Mathews is the Drenalin. The Mathews catalog copy says, "If your pulse is pounding, it's a Drenalin."

The Mathews Drenalin is a ground-breaking new bow. It's a next-generation Mathews high-performance bow that is lighter, trimmer and tougher.

To hit those marks, the Mathews design team took a fresh and innovative look at bow limbs and at the limb-pocket area of bow risers. In a decisive move, they completely re-engineered the Drenalin's limbs and developed SE3 composite SlimLimbs that measure barely over an inch wide. In a bow market full of bow limbs that average more than twice that width, the Drenalin's SlimLimbs appear wonderfully sleek and trim. Mathews' testing also shows that the new Drenalin's SlimLimbs are extraordinarily tough and durable.

Attacking the Drenalin's limb pocket area with the same fervor, Mathews re-invented that

portion of the riser. The result is riser ends that are dramatically slimmer and leaner. Gone are the boxy limb pockets that have plagued the cosmetics of so many bows for so many years. In their place is the Drenalin's leaner, shapelier silhouette.

The consequence of all that re-engineering and inventiveness is a high-performance bow that weighs over a pound less than its chief rivals. It's just as fast as the competitors, but a whole lot lighter.

As you would expect, the new Drenalin is also packed with all of the beneficial technology that you've come to expect in a Mathews bow: Harmonic Dampers, String Suppressors, a Roller Guard cable guard system, a StraightLine Perimeter-weighted single-cam eccentric system, Zebra Barracuda Strings and more.

## FEATURES AND BENEFITS

### Thinner, Trimmer, Lighter

The new Mathews Drenalin is wonderfully light for such a high-performance bow. It weighs just 3.85 pounds, making it a full pound or more lighter than its direct competitors. On a long walk to a stand, in a tight blind or on a stalk up a mountainside, that can be a marvelous thing. A good part of that weight-loss program comes from the bow's radically reduced limb pockets. The Drenalin's limb pockets are secure, yet brilliantly thin, lean and lightweight.

### Tough SE3 Composite Limbs

Blending into the innovatively lean limb pockets on the new Mathews Drenalin are next-generation Mathews SE3 composite SlimLimbs. These inventive new limbs measure just 1.1 inches wide. That makes them only about half as wide as conventional compound bow limbs, which contributes markedly to the bow's overall trim appearance. Mathews cycle testing also reveals that SlimLimbs reportedly last over twice as long as typical limbs.

### StraightLine Perimeter-Weighted Cam

The new Mathews' Drenalin is fast (see the "Shooting Results" chart). I found my sample Drenalin a bit faster than last year's Switchback XT and about the same as the 2005 Mathews Switchback. All three are flamethrowers. In addition, one of the most remarkable things about all three bows is how smoothly they draw. The Drenalin is a very fast bow that draws and lets off



*Mathews SE3 composite SlimLimbs measure just 1.1 inches wide, making them much trimmer than conventional compound bow limbs.*



*The innovative limb pockets on the Drenalin are unusually clean, trim and light. That contributes to how good the bow looks and how little it weighs.*

## SPECIFICATIONS

### Mathews Drenalin

Axle-to-Axle Length	33 inches
Brace Height	7 inches
Riser Geometry	3.3 inches reflex
Mass Weight	3.85 pounds
Letoff	65% or 80%
Draw Lengths	25 to 30 inches
Draw Weights	40#, 50#, 60#, 70#
Finish	Realtree All Purpose Repeat Camo

See your dealer, log onto [mathewsinc.com](http://mathewsinc.com) or call Mathews at (608) 269-2728 for more information.

## SHOOTING RESULTS

MATHEWS DRENALIN SET AT 29 INCHES (BY FACTORY) AND 70 POUNDS

28-inch Arrows	Point Weight	Total Weight	Grains/Pound	Kinetic Energy	Arrow Speed
<i>Easton XX78 Alloy 2512</i>	100	448 gr.	6.4	75.2	275 fps
<i>Easton Full Metal Jacket 400</i>	100	425 gr.	6.1	76.1	284 fps
<i>Beman Black Max 400</i>	100	417 gr.	6.0	75.8	286 fps
<i>Carbon Tech Whitetail 65/80</i>	100	411 gr.	5.9	75.7	288 fps
<i>Gold Tip XT Hunter 400</i>	100	385 gr.	5.5	75.0	296 fps
<i>Carbon Express Maxima 350</i>	100	380 gr.	5.4	75.0	298 fps
<i>PSE Radial X Weave Hunter 300</i>	100	378 gr.	5.4	75.0	299 fps
<i>Easton LightSpeed 400</i>	100	365 gr.	5.2	74.4	303 fps
<i>Gold Tip Ultralight Pro 400</i>	100	360 gr.	5.1	74.4	305 fps
<i>Carbon Tech Cheetah 400</i>	100	348 gr.	5.0	73.8	309 fps
<i>High Country Speed Pro Max</i>	100	305 gr.	4.4	71.1	324 fps

All bows weighed with an Easton Bow Force Mapper and all tests conducted with a Spot-Hogg Hooter Shooter Portable Shooting Machine and an Easton Technical Products Chronograph.



The limb-tip-mounted String Suppressors on the new Drenalin are ultra-quiet bowstring bumpers that do a great job of damping bowstring shot noise and vibration.

so smoothly that it feels like it's at least 5 pounds lighter in draw weight than it actually is. In other words, a 70-pound Drenalin feels to me like it's about 65 pounds. That's smooth. That's Drenalin and its StraightLine Perimeter-Weighted Cam.

Draw length with the new Drenalin is adjusted by changing eccentrics. That allows every eccentric for every draw length to be custom designed for maximum performance.

### Six-Point Harmonic Damping System

Integrated into the riser, cable guard and string suppressors on the new Mathews Drenalin are no less than six Harmonic Dampers—two in the riser, two in the Roller Guard and two more in the bow's string suppressors. At the shot, those dampers dance within cushiony collars to effectively squelch shot noise and vibration.

### String Suppressors

For years, bowhunters have relied on add-on bowstring silencers to dampen bowstring noise during the shot. Unfortunately, add-on bowstring silencers tend to rob arrow speed, gather moisture and too often simply wear out. Mathews' novel String Suppressors are ultra-quiet bowstring bumpers that don't suffer from any of those disadvantages. They're limb-tip mounted and wonderfully effective at grabbing and damping bowstring noise and vibration.

### Mathews Roller Guard

The Drenalin's Roller Guard is a next-generation cable guard that is wonderfully small, quiet and vibration-free. The quiet nature comes from the fact that the Roller Guard separates and tensions the Drenalin's cables slightly. In addition, two harmonic dampers integrated right into the innovative Roller Guard further squelch shot vibration and noise. I particularly like how small and unobtrusive the Mathews Roller Guard is on the bow. ↓

