

Mathews Genesis™



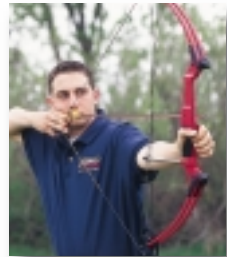
... the first compound bow that automatically covers all standard draw lengths.



Kids can't outgrow it



Adults get together to shoot it



Even Olympic Gold Medalists love it

Olympic archer, Rod White

Owner's Manual



For the next generation!™

Your new Mathews Genesis™ bow combines “zero let-off” with a light draw weight (adjustable from 10 lbs to 20 lbs) creating a bow that covers all standard draw lengths and fits virtually everyone!



Kids love it (and they can't outgrow it)!



It's great for families!



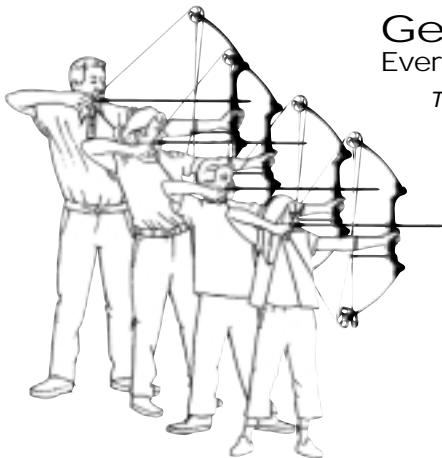
It's the perfect bow for use with video target systems!



Schools, clubs and organizations appreciate that the bow fits anyone!



It's fun for everyone!



Genesis Technology™

Everyone can shoot the same bow

Thanks to Genesis Technology,™ which effectively eliminates unnecessary let-off on light draw weight bows (thereby eliminating specific draw length), virtually anyone can shoot the same bow.

Table of Contents

Item	Page
Congratulations	2
What's in this Manual	
Our Goal	
Safety First!.....	3
Special Warnings	
Shooting Safety	
Your Mathews	
Genesis™ Bow	4 & 5
Specifications	
Genesis features	
Riser	
Idler Wheel	
Limbs and Limb Bolts	
Genesis SoloCam System	
Grip	
Arrow Rest	
Bowstring	
Power Cable and Cable Guard	
Nocking Point	
Learning to Shoot	6
Stance	
Nock the Arrow	
Finger Placement	
Anchor	
Aim	
Release	
Follow-through	
Upgrades and Options	
Accessories	7 & 8
Arrows	
Sights	
Arrow Rests	
Stabilizers	
Targets	
Miscellaneous	
Accessories	8 & 9
Finger Stalls and Tabs	
Mechanical Release Aid	
Quivers	
Arm Guards	
Practice Makes Perfect	9
Factors that Affect	
Shooting Accuracy	9 & 10
Range	
Gravity	
Arrow Velocity	
Trajectory	
It All Comes Together	10
Where To Shoot	
Care For Your Bow.....	11
Inspect Your Bow	
Lubricate Your Bow	
Storage of Your Bow	
Warranty Information	12

Safety First!

SPECIAL WARNINGS

Your safety is important to us, so before you start shooting, there are several things you need to know.

- Read all **WARNINGS**, as well as the entire instruction manual, before attempting to use this bow!
- **WARNING!** This bow is **NOT** a toy. Adult supervision is recommended.
- **WARNING!** **NEVER** "Dry Fire" your bow! That is, **DO NOT** draw the string back and release it **WITHOUT** an arrow – this could damage the bow and cause serious injury to you.
- **WARNING!** Use of safety glasses while handling or operating this bow is strongly recommended!
- **WARNING!** **NEVER** point a drawn bow at anything other than an archery target – people are **NOT** targets.
- **WARNING!** This bow is **NOT** intended for hunting – it is for **TARGET SHOOTING ONLY!**
- **WARNING!** Secure all loose clothing to avoid becoming tangled in the cam mechanism.
- Buyer and user have the duty to obey all safety rules and laws covering the ownership and use of these archery products.

Shooting Safety!

Handle your archery equipment with care and caution, or serious injury could result. Your bow fires a projectile that can seriously injure or even kill. Treat your equipment with the respect it deserves.

- **WARNING!** Do **NOT** shoot straight up or in any other direction that may endanger people or other objects.



Do not shoot straight up

- **WARNING!** Do **NOT** point or aim a drawn bow at another person.



Do not aim at or near other people

- **WARNING!** Make **SURE** target area and path to the target are clear before shooting.



Make sure your target lane is clear before shooting

- **WARNING!** Do **NOT** allow the bow limbs to contact any object when the bow is being operated.
- **WARNING!** Be careful of protruding parts and accessories (such as the cable guard, bow stabilizer, and quiver) when operating the bow.
- **WARNING!** Do not draw the bow beyond its maximum draw length (31 inches).
- **WARNING!** Do **NOT** run to the target immediately after your shot. Look around to see if other shooters are shooting. If you are at a shooting range, you will be instructed when it is safe to retrieve your arrows.
- **WARNING!** If you draw your bow with an arrow nocked (on the string), and you change your mind about releasing that arrow, slowly and carefully allow your string hand to return the string to its original (undrawn) position. This is called "letting down." The **Genesis** bow was designed to be just as easy to let down as it is to draw, so there are no surprises.



If you have drawn your bow...



...but choose not to release the arrow...

...slowly and carefully let the bow down to its original position.



Your Mathews Genesis Bow

The Mathews **Genesis** bow you purchased is different from other bows because it accommodates all draw lengths from 15" to 31". This means that people of all sizes can shoot the same bow without adjustment. Made especially for the beginning archer, the **Genesis** bow takes little effort to draw and is very easy to shoot.

The Mathews **Genesis** riser is made from solid, lightweight, machined aluminum, and the limbs are formed from a high-strength, fiber-reinforced composite. It is a single-cam (patent pending) bow and is fitted with a high-tech bowstring and durable molded grip.

Genesis Specifications

Single-cam compound bow
Draw weight: 10 to 20 lbs.
Draw length: up to 31"
Percent let-off: Zero (patent pending)
Axle-to-axle length: 36"
Brace height: 7 1/2"
String length: 94 1/2"
Power cable length: 37 1/4"

Molded
Competition
grip

Machined 6061-T6
aluminum riser

Quick replacement
rest (from New
Archery Products)

Genesis
Cam™

Stainless steel
cable guard

NAAP
New Archery
Products

Genesis Features

Riser

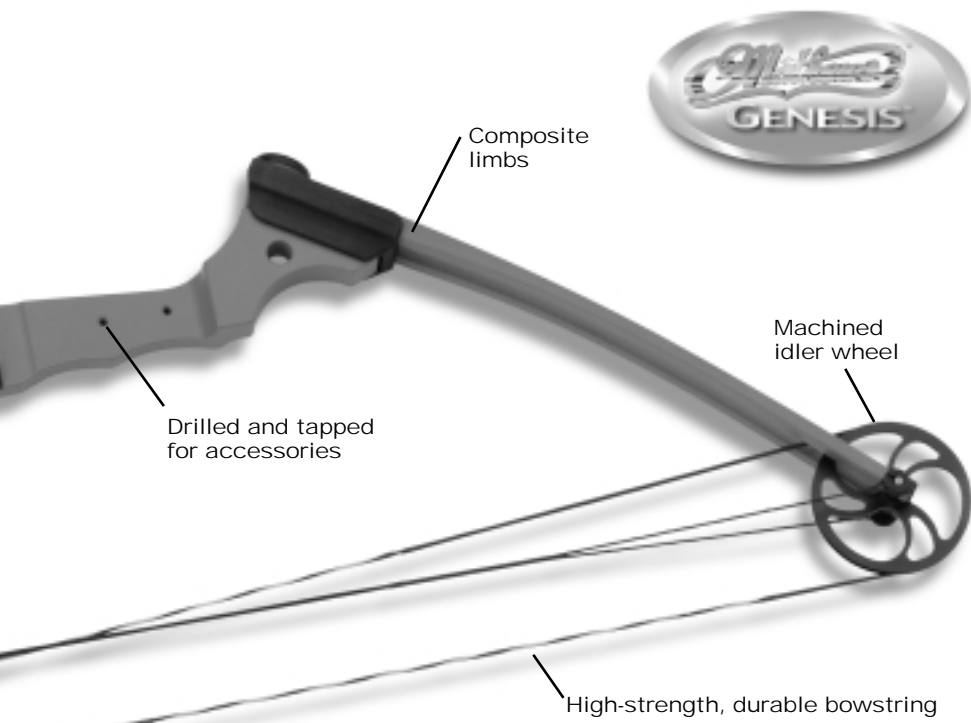
The riser (handle section) on your Mathews **Genesis** bow is machined from a solid piece of 6061-T6 aluminum. This material is engineered to provide the **Genesis bow** with optimal balance while being both extremely durable and very lightweight.

Idler Wheel

The idler wheel is located on the upper limb of the bow. The main function of the idler wheel is to transfer stored energy from the bow limbs back through the string to the arrow in a smooth and rapid fashion. The bearings in the idler wheel is made of a very low-friction synthetic material which seldom requires lubrication.

Limbs and Limb Bolts

The limbs on your Mathews **Genesis** bow are attached to each end of the riser. They store the potential energy you put into the bow until the string is released. At the moment of release, the stored potential energy is transformed into energy in motion, and the arrow is propelled toward the target. The limb bolts attach the limbs to the riser and are also used to adjust the draw weight of your bow. Using a 3/16" hex wrench, the limb bolts can be turned in a counterclockwise direction to decrease the poundage of the bow to a minimum of 10 lbs. Turning the limb bolts clockwise will return the bow to its maximum of 20 lbs. One full turn equals approximately 1.4 lbs. of draw weight. The limb bolts on each limb should always be turned the same number of turns when adjusting bow poundage.



Genesis SoloCam System

Your Mathews **Genesis** bow features (patent pending) single-cam design. The elliptical-shaped cam allows the bow to maintain the set poundage throughout the draw cycle. The extended solid arm on the cam cradles and guides the bowstring. When the bowstring is released, the arm creates a flywheel effect, which results in a faster arrow while minimizing bow recoil.

Grip

The durable, molded grip on your Mathews **Genesis** bow is specially designed to fit the contours of your hand, providing both comfort and consistency.

Arrow Rest

Your Mathews **Genesis** bow comes with a flipper-style arrow rest (made by New Archery Products). The arrow rest is located just above the shelf portion of the riser. Our testing has shown that this rest is very durable and provides excellent shooting characteristics. **Note:** If the flipper arm bends after repeated shots, simply bend the arm back to the original horizontal position.

Bowstring

We equip each Mathews **Genesis** bow with a high-strength, durable bowstring made from state-of-the-art materials. This bowstring provides superior performance, ensuring that the maximum amount of the bow's stored energy is transferred to the arrow.

Power Cable and Cable Guard

The power cable is the second component of the bowstring assembly. It is anchored at the axle on the upper limb and wraps around the take-up track on the cam which is mounted on the lower limb.

The cable guard is the metal rod which supports the sliding cable cage that keeps the cable slightly off to one side and out of the flight path of the arrow.

Nocking Point

You or your Mathews retailer must properly install a string nock to ensure proper arrow position on the string for dependable accuracy.

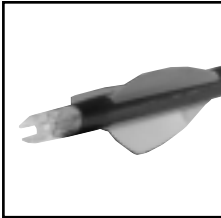
Learning to Shoot (*Step-by-step shooting Instructions*)

The secret to consistent archery performance is repeatability. There are seven basic elements that must be practiced, and they make up what we call shooting form. Mathews suggests that you visit your local Mathews retailer to help guide you through your first shooting experience. The following seven steps will lead you to the bull's-eye.

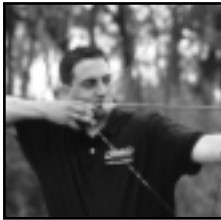
1. Stance – Feet should be shoulder-width apart and at a right angle to the shooting line.



2. Nock the arrow – Arrows have three vanes; the odd-colored vane should always face away from the bow.



3. Finger Placement – Touch your pinky to your thumb, exposing your three middle fingers (much like a Boy Scout sign). Place the string in the first joints of those three fingers below the nocking point.



4. Anchor – After drawing, touch the string to your nose while placing the top of your hand along your jaw line.



5. Aim – Close your left eye (for a right-handed shooter – or your right eye, for a left-handed shooter), look down the arrow shaft with your aiming eye and align it with the target.

6. Release – Relax your grip on the string and let the bow fire the arrow.



7. Follow-through – Keep your arms up after releasing the arrow.

Upgrades and Options

Your Mathews Genesis bow is a purchase you can be proud of. Its quality and design makes it look and feel very much like the bows the professionals use! Your Mathews retailer can outfit you with possible upgrades for your **Genesis** bow in the future.



Accessories

Disclaimer:

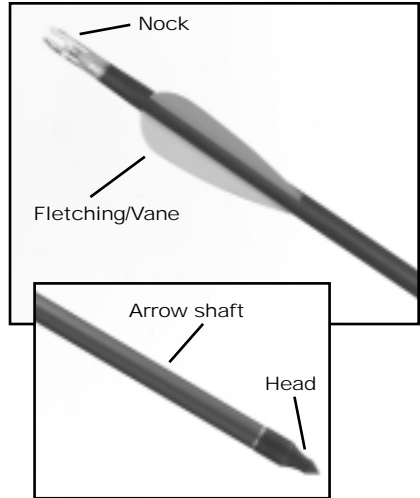
Failure to follow the recommendations and instructions of Mathews Genesis, Inc., Brennan Industries, Inc. and Mathews, Inc. or any accessory manufacturer could result in serious personal injury to yourself or others, death, or damage to property, the equipment, or accessories. By your use of the Mathews Genesis bow, you acknowledge that Mathews Genesis, Inc., Brennan Industries, Inc. and Mathews, Inc. shall not be liable for any injury or damage to person or property, equipment or accessories, by the user or others, resulting from or in any way related to the failure to follow such instructions and recommendations.

Arrows

Arrows are commonly made from one or more of the following materials: wood, aluminum, fiberglass or graphite composites. Aluminum, fiberglass and graphite arrows are the most popular because they can be made stronger and more consistent than the natural wood arrows.

Arrows are composed of four basic parts: a shaft, a head (also called a point), fletchings (feathers or vanes), and a nock. The shaft is the main part of the arrow, and all the other components are attached to it. The head is the heavy end of the arrow that is usually pointed, allowing the arrow to easily stick into the target. The fletchings, or vanes, are located toward the rear of the arrow and help to guide the arrow to the target. The fletchings, or vanes, are commonly mounted to the arrow shaft in a helical (slight spiral) fashion to make the arrow spin while in flight (much like a bullet). This stabilizes the arrow in flight so it flies straight. The nock, attached to the very rear of the arrow, keeps the arrow in contact with the bowstring during the shooting process. This ensures that the arrow receives the maximum amount of the bow's stored energy and that each arrow launch is consistent.

WARNING! Make certain that arrows used are of proper length and stiffness for your bow's draw weight and draw length (see and follow your arrow manufacturer's recommendations).



WARNING! Defective arrows are not safe to shoot. Check your arrows for defects before shooting. Some defects to watch for are: bends, dents or cracks in the shaft; loose points; damaged vanes; and cracked, bent or broken nocks.

Arrows come in many different sizes. The arrows generally shot from the **Genesis** bow are aluminum with the 2016 designation (meaning, the diameter of the shaft is 20/64" and the wall thickness of the shaft is .016") and are 31" long. These arrows are capable of being shot by virtually anyone with the **Genesis** bow and they are very durable. For other arrows suitable for a particular **Genesis** shooter, check with your local Mathews retailer.



The 31" 2016 arrow works well with the Genesis bow.

Sights

Bow sights come in a variety of configurations and styles. The most popular ones use light-gathering fiber optic pins. Adding a bow sight to your Mathews **Genesis** bow can improve your shooting accuracy almost instantly. However, it is important to note that when a sight is added to the bow, it lessens the bow's versatility from shooter to shooter if the bow is shared by a family or group. Many factors affect proper sight placement: the way an individual grips the string, the distance from your anchor point to your eye, and even the way a person lines up the sight with the target – all affect the arrow's impact point.

The majority of today's archers utilize a bow sight on their own individual bow, but for the beginning archer, it is not absolutely necessary. There are shooters who do not use bow sights, and instead, choose to shoot "instinctively." Instinctive shooting is simply concentrating on the spot that you want to hit while instinctively judging where to aim the arrow.

A third style of shooting is called "Bare Bow." It consists of several different methods, one being the "gap system." In this system, the archer sights the target while making a mental picture of the tip of the arrow in relation to the target (called "the gap"), just prior to release of the arrow. Another method is to sight down the length of the arrow with the aiming eye; this is referred to as "shotgunning."

With practice, "bare bow" or "instinctive shooting" (shooting without a bow sight), can be very effective and rewarding.



Arrow Rests

Your Genesis bow comes equipped with a New Archery Products flipper rest. Other rests are available that are adjustable and have various other features. These rests should adapt easily to your **Genesis** bow and are available at your local Mathews retailer.

Stabilizers

Stabilizers come in many shapes and sizes and are made from a variety of materials. The function of the stabilizer is to balance the bow in your hand, which helps to improve accuracy.

Targets

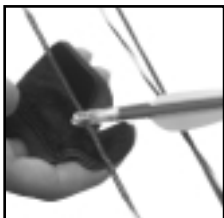
Targets are made of many different materials and come in many different shapes and sizes. Targets made from bales of straw or old cardboard boxes have been popular for years. Recently, archery targets have become more sophisticated. A number of traditional target shapes are available in foam. More recently, foam has been used to make targets that are shaped like deer or other animals and are called 3-dimensional targets. These 3-dimensional targets are often used by archers to prepare them for a hunt.

Miscellaneous Accessories

As you progress in the sport of archery, you will discover that there is a lot of equipment on the market that has been specifically designed to help the archer obtain better accuracy or more comfort while shooting. Here are a few items that may help you enjoy archery a bit more.

- Padded leather finger stalls or finger tab. These devices afford the finger shooter protection while providing a smooth, consistent release of the bowstring.

Finger shooter using finger protection.



- Mechanical shooting release aid. These are hand-held devices that attach to the bowstring and are used to pull and release the bowstring in place of using one's fingers directly on the string. The mechanical release aid reduces the strain on the drawing fingers and increases the consistency of the bowstring release, which usually results in increased accuracy.

Mechanical release aids are easy to use and extremely consistent if used in accordance with their manufacturers instructions and requirements.



- Quivers. Quivers are devices that hold your arrows safely and securely and keep them close at hand. These can be worn by the shooter or can be attached directly to the bow.

Quivers either attach to the bow or can be worn by the shooter.



- Arm guards. These devices are worn on the shooter's "bow" arm. They protect the shooter from the bowstring should it contact the arm during a lapse in proper shooting form.

Arm guards protect the bow arm from an occasional slap of the bowstring.



Practice Makes Perfect

As with any sport, to become really good at something, you must practice. The more often you practice, the better you will become. The better you become, the more fun you will have. And with practice, you will soon be hitting the center of the target with consistency, making your archery experience as rewarding as it is fun.

Factors That Affect Shooting Accuracy

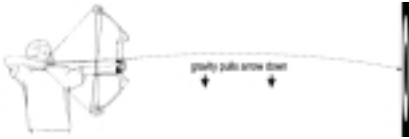
When shooting an arrow, there are a number of factors that you, as a beginning archer, must think about if you're going to get that arrow into the bull's-eye: **Range, Gravity, Arrow Velocity and Trajectory.**

Range

Range is the distance from your bow to the target, and it is often measured in yards. You'll typically shoot at 10 or 20 yards, but may shoot longer distances as you become more proficient. Accurate arrow placement requires accurate knowledge of "Range," the distance to the target.

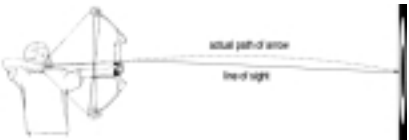
Gravity

Gravity is an invisible force that pulls everything toward the Earth (including arrows). To get your arrow to the center of the target before gravity pulls it to the ground, you must launch your arrow slightly above your straight line of sight. The arrow's trajectory (path to the target) will be in the form of an arc. The distance to the target and the speed of the arrow determine the launch angle and the height of the arrow's arc.



Trajectory

Trajectory is the path the arrow takes to the target. When you look at a target, your line of sight to the target is a straight line. However, when you shoot an arrow, the path your arrow takes to get to the target is a curved path or arc. Having a feel for, or knowing the trajectory (arched path) that your arrow will take, increases your ability to hit targets at varying ranges.

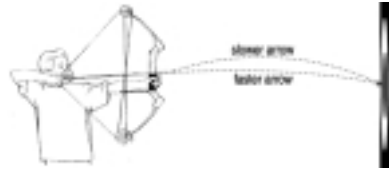


Trajectory is the actual path of the arrow.

Arrow Velocity

Arrow Velocity is the speed at which the arrow leaves the bowstring. Arrow velocity is most often expressed in units of "feet-per-second." The arrow velocity is the main factor in determining the arrow's trajectory. If we also know the arrow's weight, we can determine its **kinetic energy** or ability to penetrate a target. With the **Genesis** bow, the same arrow may be shot at different arrow velocities, depending on the draw length of the archer shooting the bow. Short draw lengths will result in lower arrow

velocities and higher arched trajectories, while longer draw lengths result in higher initial velocities and flatter trajectories. A slower arrow will have a higher trajectory. A faster arrow will have a flatter trajectory.



*A slower arrow will have more arc.
A faster arrow will shoot flatter.*

It All Comes Together

When range and arrow trajectory are calculated correctly, your arrow will arrive at the center of the target! And to hit the center of the target, your bow must be in good working condition. In the following pages we will discuss the basics and the importance of proper equipment care.



Where To Shoot

Where do you go to shoot your bow? Archery pro shops often have indoor ranges where you can shoot. For a small fee, you're often allowed to shoot from a few hours to as much as an entire day. Finding a local archery club that sponsors an outdoor archery range would also be a good resource. Chances are good that there may even be a public shooting area or outdoor range near you.

Care For Your Bow

To keep your bow shooting straight and in good working order, there are a few things you need to know.



Inspect Your Bow

- Inspect your bow before each shooting session! Worn or damaged parts could be dangerous.
- Check for any loose parts on sights, stabilizers, quivers, etc. and tighten before shooting.
- When inspecting, pay special attention to the bowstring and cables. If the bowstring is frayed or has broken strands, replace it immediately. If any of the protective servings are loose or have come undone, either have the string or cable re-served, or have it replaced prior to shooting.



WARNING! Do NOT expose the bowstring or cables to sharp edges or extreme heat sources of any kind.

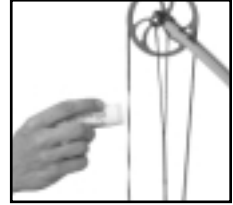
- Check the bow limbs, cam, and idler wheel for damage or wear. If one of these items appears damaged in any way or is not working correctly, **DO NOT SHOOT** your bow. Take your bow to a qualified Mathews retailer to have it looked at by a trained professional.

Lubricate Your Bow & Bowstrings

- Oil the axles of the cam and idler wheel every now and then with a drop of lightweight oil to keep them functioning smoothly. The bearings on the **Genesis** bow are self-lubricating, so the oil is only a precaution that coats the high-strength axles to prevent oxidation.

- Lubricate your bowstring with beeswax or a commercial bowstring wax, which can be purchased at any archery pro shop. The wax keeps the individual strands lubricated and helps to reduce friction and wear, which prolongs the life of your string.

Bowstring wax keeps bowstrings lubricated, reduces friction and prolongs string life.



- Check the arrow rest to make sure it is in good working order. If worn, replace the arrow rest. When replacing the rest, ensure that the flipper arm (which supports the arrow) is located below the (black) side pressure point of the rest and pivots freely in the direction of arrow travel.

If flipper arm becomes bent out of its original shape, it can easily be returned to its normal shape with a needle-nose pliers.



Storage of Your Bow

- Store your bow properly when not in use. Keep it stored in a bow case that is specifically designed for your bow, or hang your bow by the riser in a horizontal position.

WARNING! Never hang your bow by the bowstring, cable, cam or idler wheel!

Hanging your bow in this manner could cause damage.

WARNING! Do NOT expose any bow to extreme heat or prolonged damp conditions, or damage to the bow may result.

Warranty Information

Every Mathews **Genesis** bow has a **ONE YEAR WARRANTY**. Warranty repairs are our top priority. Each bow has a unique serial number, and warranty cards are not required to obtain warranty service. Should you ever need repairs, the Mathews retailer from whom you purchased your bow is very knowledgeable and may be able to complete the work in their shop. If the bow does need to be sent to us, we assure you that we do strive to do the warranty repair and service work in a timely fashion.

ONE YEAR WARRANTY

Every Mathews **Genesis** bow is warranted against defects in materials and workmanship for one year from the date of purchase. Included in this warranty are all bow parts, except: bowstring, power cable, cable slide, arrow rest, cam/idler bearings and cosmetic appearance (chips, dings, scratches) caused by normal use and wear. Bows sent back to Mathews **Genesis** without a pre-issued return authorization number will be refused. Any and all warranties, written or implied, are void with any alterations to the bow.

Honesty is the best policy...

Mathews Genesis bows are covered by one or more of the following patents, with other patents pending: 5,368,006; 5,676,234; 5,752,496; 5,791,322; 5,809,982; 5,966,567.



For the next generation!™

2035 Riley Road, Sparta, Wisconsin 54656
(608) 269-1779 • Fax (608) 269-0172 • www.genesisbow.com

Archery... fun for everyone!



“Archery is a lifetime sport, like golf. The Mathews Genesis bow makes it easy for virtually everyone to participate. I hope you have as much fun with archery as I have!”

**Rod White
Olympic archer and
Mathews Genesis spokesman**

Mathews Genesis™...



the bow that fits virtually everyone!



For the next generation!™

2035 Riley Road, Sparta, Wisconsin 54656
(608) 269-1779 • www.genesisbow.com
