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BASEBALL/SOFTBALL BUYERS GUIDES

Today's bats are made to address unique playing styles and hitting strengths. We'll help you select what's right.

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How To Buy A Baseball Bat

Whether you play Little League baseball or for a college team, buying a bat is a personal decision. New technology has delivered bats that not only enhance performance but also are tailored to an individual player's strengths. It is essential that you select a bat that fits your unique body configuration and skill level, height, weight, and hitting strength.

- **Understanding Bat Materials**
 - Aluminum
 - Graphite/Titanium lined
 - Wood
- **Determine What Bat Fits Your Body**
 - Age
 - Height and weight
- **Determining the Right Bat Weight**
- **Understanding Bat Technology**
 - Barrel size
 - Taper
 - Grip
- **Bat Specifications**
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Understanding Bat Materials

The world of bats now offers a large variety of choices in materials. These can be broken into three primary categories: *aluminum*, *graphite/titanium* lined, and *wood*. Each provides its own unique characteristics and advantages for today's players.

Aluminum

- Aluminum is lighter in weight which increases control and bat speed. Balls travel farther with aluminum over other metals.
- Despite generally higher costs than other materials, aluminum is durable and not prone to crack or break
- Aluminum bats come in a variety of *alloys* each with a different weight
- Generally, lighter aluminum alloys are thinner and more durable. The one thing these have in common is that they are all different combinations of Zinc, Copper, Magnesium and Aluminum. The following is a list of the different alloys and their benefits.
 - *7046*: This is the standard aluminum alloy used in most bats
 - *CU31/7050*: More durable than 7046, due to increased levels of zirconium, magnesium, and copper
 - *C405/7055*: Increased Zirconium content than 7050, giving higher strength
 - *C555*: 7% stronger than C405, has traces of scandium, which increases strength
- Lighter weight bats also increase the "*sweet spot*," the hitting zone on the bat's barrel that gives the maximum place to put metal to ball
- Aluminum bats, and those enhanced with other alloys, also come in single-layer or *double-layer* construction
- Double-layer bats offer more durability and power, since the ball rebounds off the bat with more authority
- *Cryogenically treated aluminum*--Alloy is frozen and reheated to provide greater durability, less vibration and 2-4% greater distance

Graphite/Titanium lined

- Technology has enabled bat makers to use lighter, stronger materials. Graphite and titanium are just two of these.

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- [Wood-Youth](#)

OUR PICKS

More Info
302F Big Stick Wood
Baseball B
Our Price: 29.99



More Info
288RJ Big Stick Pro Black
Wood Baseball Bat
Our Price: 44.99

titanium are just two of these.

- Both are usually added to thinner-wall aluminum bats, enabling bats to be lighter and increasing a player's swing speed
- These materials also increase durability and the batter's sweet spot
- Graphite and titanium also help reduce vibration and the sting of *ball shock*, the tingling feeling sent to the hands usually when you miss hitting the ball in the bat's sweet spot

Wood

- Wood bats offer a classic feel and sound
- Look for a grain that is long and wide, which indicates a tree's age and density
- Wood bats offer more choices in shape and taper that can be customized to a player's swing
- Wood has three big disadvantages:
 - Bats crack and break
 - Reduced sweet spots on the barrel
 - Far less hitting power than metal bats

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Determine What Bat Fits Your Body

There are some standard rules of thumb in selecting the appropriate bat length. The charts below offer some guidelines based on age and height and weight.

Age

- Using your age as a guide, use the chart below to determine the bat length that fits your body

Determine Your Bat Length by Age

Age	Bat length
5-7 years old	24"-26"
8-9 years old	26"-28"
10 years old	28"-29"
11-12 years old	30"-31"
13-14 years old	31"-32"
15-16 years old	32"-33"
17+ years old	34"

Height and weight

- These are usually better ways to determine what bat length may work best for you

Determine Your Bat Length by Weight and Height

Your weight (pounds)	Your height (inches)										
	36-40	41-44	45-48	49-52	53-56	57-60	61-64	65-68	69-72	73+	
	Bat length										
less than 60	26"	27"	28"	29"	29"						
61-70	27"	27"	28"	29"	30"	30"					
71-80		28"	28"	29"	30"	30"	31"				
81-90		28"	29"	29"	30"	30"	31"	32"			
91-100		28"	29"	30"	30"	31"	31"	32"			
101-110		29"	29"	30"	30"	31"	31"	32"			
111-120		29"	29"	30"	30"	31"	31"	32"			
121-130		29"	29"	30"	30"	31"	32"	33"	33"		
131-140		29"	30"	30"	31"	31"	32"	33"	33"		
141-150			30"	30"	31"	31"	32"	33"	33"		
151-160			30"	31"	31"	32"	32"	33"	33"	33"	
161-170				31"	31"	32"	32"	33"	33"	34"	
171-180						32"	33"	33"	34"	34"	
180+							33"	33"	34"	34"	

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Determining the Right Bat Weight

- Most bats are also weighted in ounces
- Manufacturers have done a great job in balancing the bat's weight to its length
- Many bats have a *weight-to-length ratio*, often shown as -4, -6, etc.
- This basically means a 34-inch bat with a -6 ratio weighs 28 ounces
- Selecting weight really depends on two critical factors--your strength and your hitting style
- It also depends a lot on your personal preference in weight and length, so the following are simply guidelines to follow:
 - Bigger, stronger players generally prefer a heavier bat since they get the benefits of both the heft and swing power
 - Smaller players with less strength should consider a lighter bat to generate a quicker swing
 - Younger players, too, should consider that a lighter bat increases control--great for singles hitters, while also reducing the risk of injury

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Understanding Bat Technology

Bat technology may seem a little confusing but it's not rocket-science. There are three essential elements to a bat: *barrel size*, *bat taper* and *grip*.

Barrel size

- This includes both the length of the *barrel*--top part of the bat--and its diameter
- The longer the barrel, generally, the larger the sweet spot for hitting the ball
- As for diameter, the standard is 2 1/2, inches but many players prefer a smaller barrel that lightens weight and provides more swing speed

Taper

- This is the diameter of the bat's handle
- Standard bats are tapered 31/32 of an inch but can be slightly larger or smaller depending on whether you want a lighter or heavier bat
- You may prefer the feel of a bigger bat taper, which can also reduce the sting when a ball isn't struck on the sweet spot
- Some players like a narrower taper for the lighter weight and to rotate their wrists faster when hitting.

Grip

- The grip is simply the covering that bat manufacturers use on the handle of aluminum bats
- Rubber grips absorb more of the shock
- Leather or synthetic leather gives a tackier feel for a surer grip
- Some bats come with a cushioned grip to decrease the shock even more

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Bat Specifications

- Effective January 1, 2001, all High School baseball bats will be limited to a 2 5/8" maximum barrel diameter and a -3 oz weight to length ratio
- These are the same specifications that were recently adopted by the NCAA

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Warranty Information

Returns and exchanges for opened or used bats are the responsibility of the manufacturer. Click [here](#) to find phone numbers you can call to find out more information on bat warranty coverage.

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