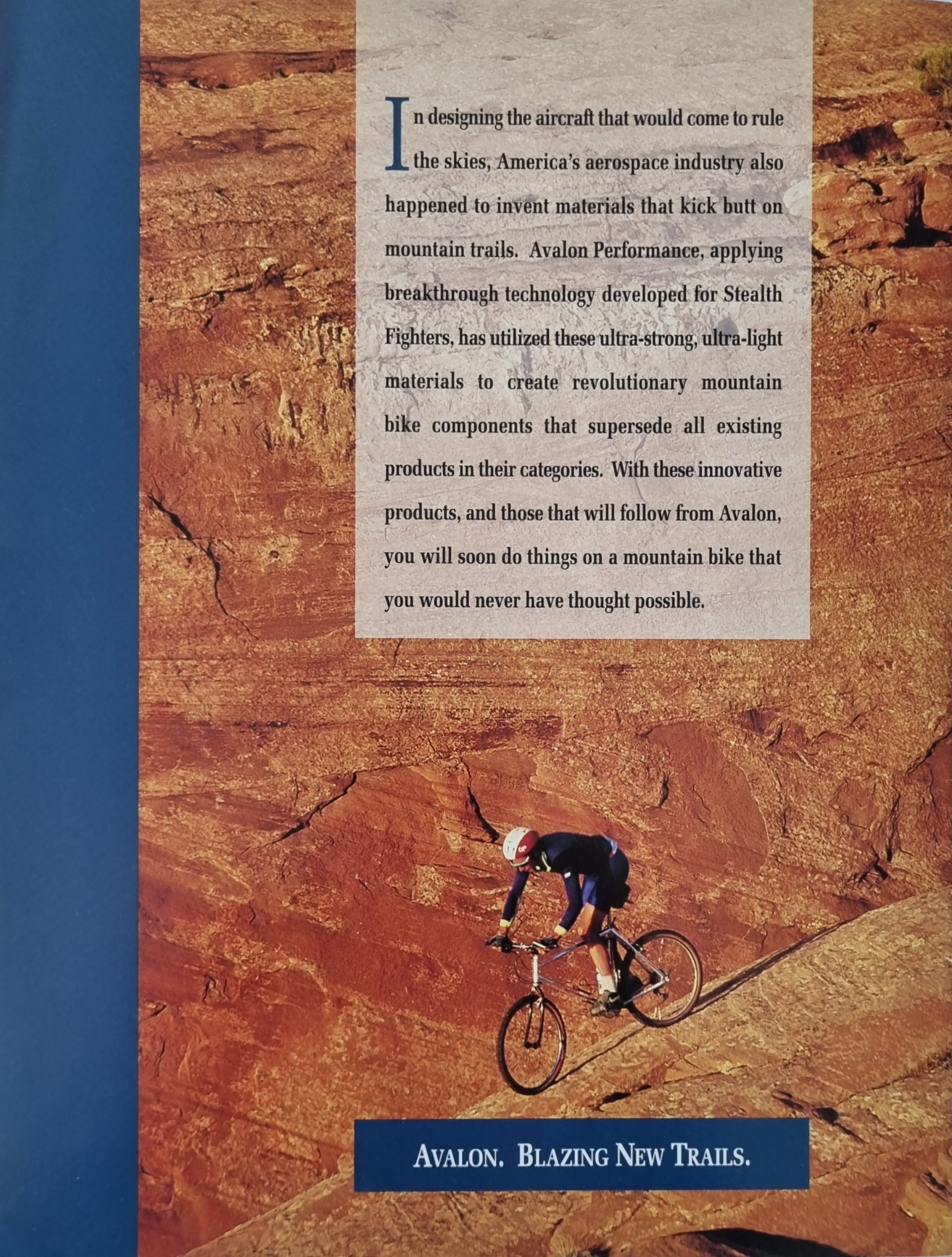


# AVALON

*Performance*



**WITH THE ARMS RACE WON,  
OUR ENGINEERS HAVE NOW TURNED THEIR SIGHTS  
TO IMPROVING YOUR BIKE.**

A full-page photograph of a mountain biker in a dark blue and red outfit, wearing a white helmet, riding down a steep, reddish-brown rock face. The biker is positioned in the lower half of the frame, leaning forward. The background is a vast, textured rock wall with horizontal layers and cracks. A semi-transparent white box containing text is centered in the upper half of the image. At the bottom, a dark blue banner contains the slogan in white text.

**I**n designing the aircraft that would come to rule the skies, America's aerospace industry also happened to invent materials that kick butt on mountain trails. Avalon Performance, applying breakthrough technology developed for Stealth Fighters, has utilized these ultra-strong, ultra-light materials to create revolutionary mountain bike components that supersede all existing products in their categories. With these innovative products, and those that will follow from Avalon, you will soon do things on a mountain bike that you would never have thought possible.

**AVALON. BLAZING NEW TRAILS.**

# RIDE INTO TOMORROW W

## STARLITE CRANKSET

The innovative design elements of Avalon's lightweight Starlite Crankset give it the stiffness and power usually associated with much heavier cranks.

*Combination of spider and crank into one-piece design increases stiffness, as well as eliminating the "creak" associated with two piece designs.*

*Unique curved design offsets the damaging effects of lateral torque while increasing the power transferred from each pedal.*

*Geometric "pocketing" reduces weight without sacrificing structural integrity.*



**AVALON  
STARLITE  
CRANKSETS**  
come in three  
sleek colors.



*Avalon's Peerless 100  
to weight ratios of any*

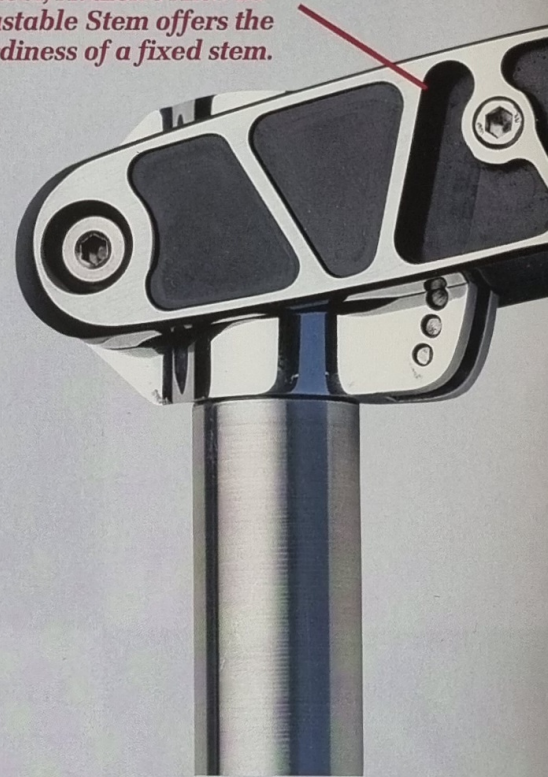
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*Built from rugged 7075 aluminum and stainless steel, Avalon's ARC 20° Adjustable Stem offers the sturdiness of a fixed stem.*

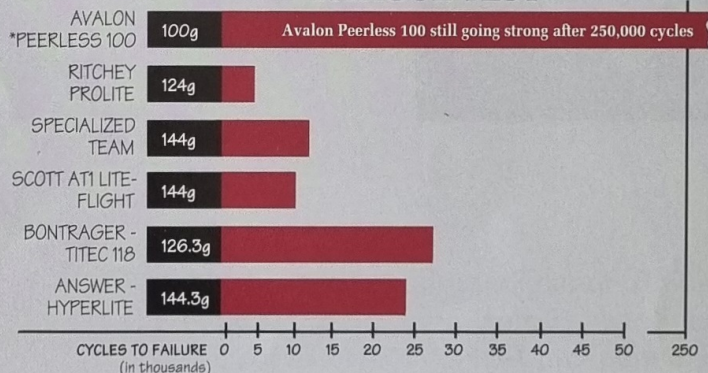


## PEERLESS 100 GRAPHITE/KEVLAR® HANDLEBAR

Weighing only 100 grams, Avalon's Peerless 100 Graphite/Kevlar® Handlebar boasts a break point of over 650 lbs, giving it one of the highest strength to weight ratios of any bicycle handlebar in the world. Because of its unique construction, with several layers of Carbon-Graphite surrounding layers of Kevlar®, Avalon's handlebar is much more durable than its aluminum and titanium competitors. In fact, fatigue testing, which best approximates real life conditions, proves that the Peerless 100 can last ten times longer than any other bar on the market.

And while other Carbon Graphite handlebars may literally explode into splinters in the event of catastrophic failure, the Kevlar® in the Peerless 100 ensures that it will remain in one piece upon reaching failure point. Not to worry though. With a break point exceeding 650 lbs., this bar isn't going to give out.

### FATIGUE TEST



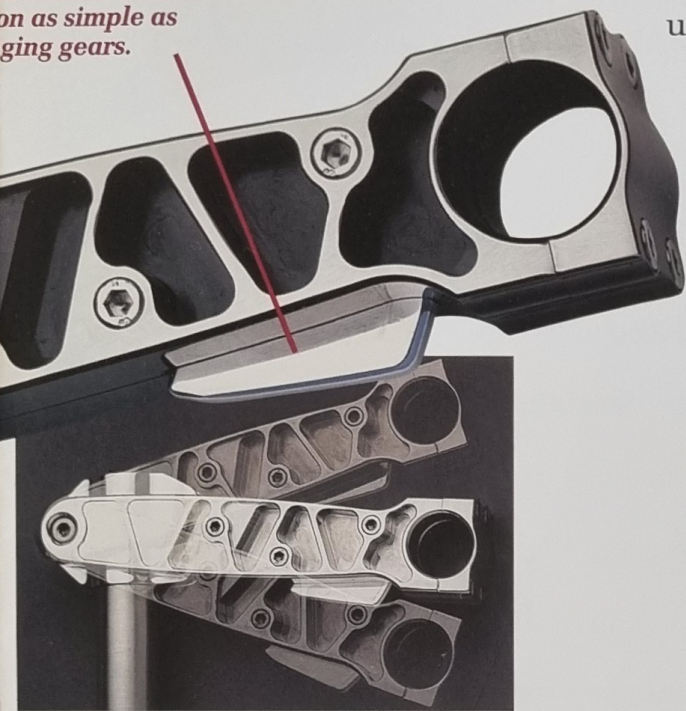
SOURCE: MOUNTAIN BIKE MAGAZINE, AUGUST 1994 \*INDEPENDENT LABORATORY TESTED.

*bar has one of the highest strength  
e handlebar in the world.*



*Each handlebar takes over 3 hours to h  
and is thoroughly tested.*

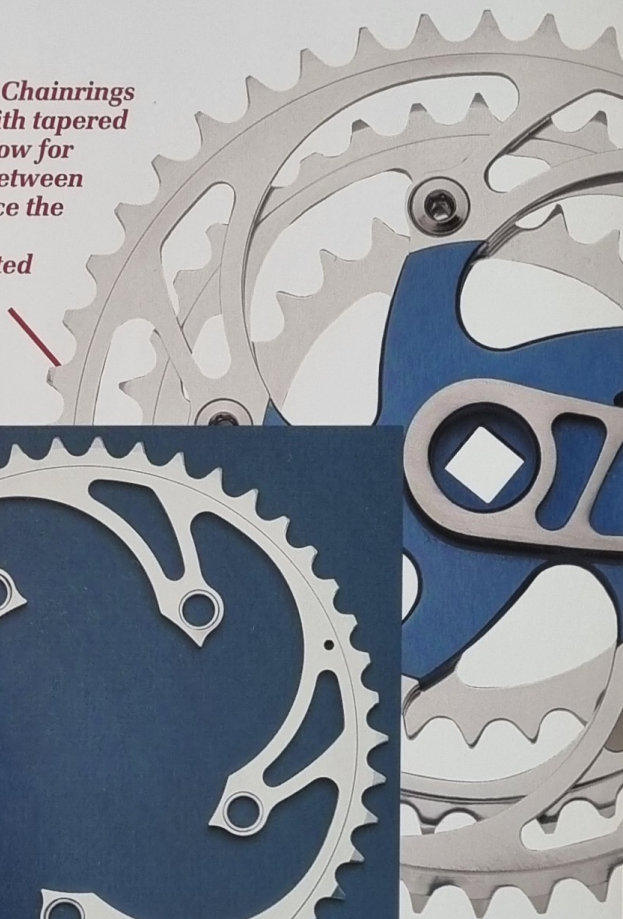
*Squeezing the lock-  
up handle located  
at the bottom of the  
stem, you can reposition  
the handlebar with a  
motion as simple as  
shifting gears.*



## ARC 20° ADJUSTABLE STEM

Avalon's revolutionary mountain bike stem allows the rider to adjust the handlebar's position up and down with a range of 2 1/2 inches (-10° to +10°)! By simply squeezing the stem a rider can move the handlebar, *while riding*, to improve performance and comfort.

*Avalon's Allied Chainrings are designed with tapered teeth, which allow for rapid shifting between gears and reduce the chain binding usually associated with straight tooth designs.*



## ALLIED CHAINRINGS

Avalon's rugged aluminum Allied Chainrings are designed as the perfect complement to Avalon's Starlite Crankset but will also work well with any other crankset currently on the market.

With the ARC 20° Adjustable Stem, you can respond quickly to changing road slopes and conditions, as well as relieve your back from a constant "hunched over" position.

On a downhill, for instance, you can lower the stem in order to lower your center of gravity, thus reducing wind resistance.



When "out of saddle" while climbing, you can raise the stem for a more advantageous body position and better bike control.



# RIDE INTO TOMORROW WITH

# AVALON.

## STARLITE CRANKSET

Combination of spider and crank into one-piece design increases stiffness, as well as eliminating the "creak" associated with two piece designs.

The innovative design elements of Avalon's lightweight Starlite Crankset give it the stiffness and power usually associated with much heavier cranks.

Unique curved design offsets the damaging effects of lateral torque while increasing the power transferred from each pedal.

Geometric "pocketing" reduces weight without sacrificing structural integrity.

AVALON STARLITE CRANKSETS come in three sleek colors.

## PEERLESS 100 GRAPHITE/KEVLAR® HANDLEBAR

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And while other Carbon Graphite handlebars may literally explode into splinters in the event of catastrophic failure, the Kevlar® in the Peerless 100 ensures that it will remain in one piece upon reaching failure point. Not to worry though. With a break point exceeding 650 lbs., this bar isn't going to give out.

Avalon's Peerless 100 Handlebar has one of the highest strength to weight ratios of any bicycle handlebar in the world.

Built from rugged 7075 aluminum and stainless steel, Avalon's ARC 20° Adjustable Stem offers the sturdiness of a fixed stem.

By squeezing the lock-release handle located on the bottom of the stem, you can reposition the handlebar with a motion as simple as changing gears.

## ARC 20° ADJUSTABLE STEM

Avalon's revolutionary mountain bike stem allows the rider to adjust the handlebar's position up and down with a range of 2 1/2 inches (-10° to +10°)! By simply squeezing the stem a rider can move the handlebar, while riding, to improve performance and comfort.

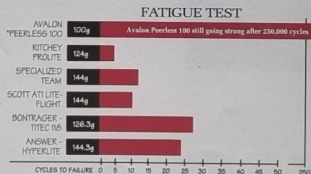
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Each handlebar takes over 3 hours to hand-make and is thoroughly tested.

## ALLIED CHAINRINGS

Avalon's rugged aluminum Allied Chainrings are designed as the perfect complement to Avalon's Starlite Crankset but will also work well with any other crankset currently on the market.



## TECHNICAL SPECIFICATIONS:

### STARLITE CRANKSET

MATERIAL:	7075-T651 aluminum alloy
CONSTRUCTION:	CNC machined from billet
STYLES:	Mountain Standard, Mountain Compact, Road
SIZES AVAILABLE:	175mm, 180mm
WEIGHT:	450 grams (175mm)
FINISH:	Polished, two-toned black, two-toned blue



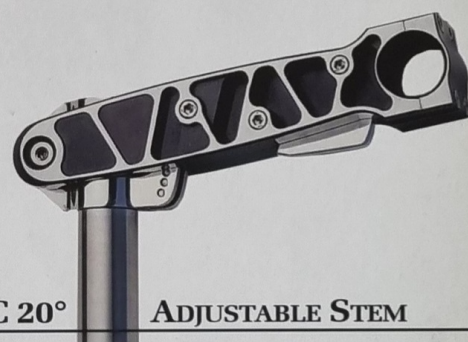
### PEERLESS 100 GRAPHITE/KEVLAR® HANDLEBAR

MATERIAL:	Carbon Graphite/Kevlar®
SIZES AVAILABLE:	23 inches, 3° bend
WEIGHT:	100 grams
FINISH:	Natural Carbon Fiber



### ALLIED CHAINRINGS

MATERIAL:	7075-T651 aluminum alloy
CONSTRUCTION:	CNC machined from billet
STYLES:	74/110mm bolt pattern
SIZES AVAILABLE:	24 tooth, 36 tooth, 46 tooth
WEIGHT:	27 grams, 41 grams, 62 grams
FINISH:	Polished, two-toned black, two-toned blue



### ARC 20° ADJUSTABLE STEM

MATERIAL:	7075-T651 aluminum alloy - Stainless Steel
CONSTRUCTION:	CNC machined from billet
SIZES AVAILABLE:	Quill (1 inch, 1 <sup>1</sup> / <sub>8</sub> inch, 1 <sup>1</sup> / <sub>4</sub> inch) Clamp-on (1 <sup>1</sup> / <sub>8</sub> inch, 1 <sup>1</sup> / <sub>4</sub> inch)
WEIGHT:	490 grams
REACH:	135mm
RISE:	-10°, -5°, 0°, +5°, +10°
FINISH:	Polished, two-toned black, two-toned blue

Avalon Performance products are available from specialty bike dealers everywhere. For more information, call 1-800-774-4840, or write to:



*Avalon encourages you to say yes to helmets and no to flower trampling.*



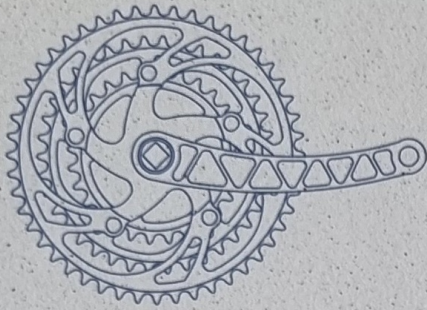
**AVALON**  
*Performance*

**1996**  
*Interim Catalog*

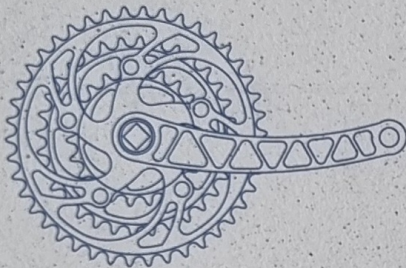


# Starlite Cranksets

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Mountain Standard



Mountain Compact



Road

Avalon's **Starlite** cranksets break the mold in both design and function. The **Starlite's** curved shape was specifically designed to more efficiently absorb the incredible stresses that cranks must endure. While most straight cranks can bend and flex under a rider's own weight, **Starlite's** unique design absorbs a rider's weight more evenly, making for a much stiffer ride. This reduction in flex also reduces crank fatigue, creating a longer lasting crank.

Both the crank arm and spider are machined from a single billet, eliminating the annoying creak associated with two piece cranks.

Avalon **Starlite** cranksets are backed by our two year unconditional warranty. If you break them, we replace them!

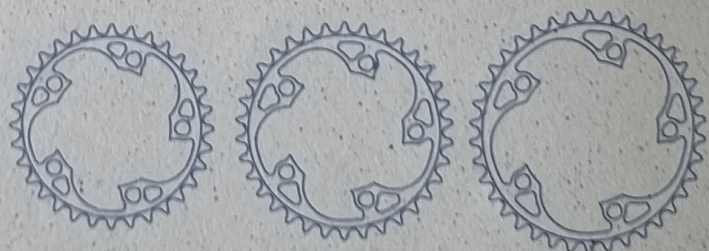
Find out why thousands of riders around the world are switching to **Starlite** cranksets.

They are available in three styles and four colors and are sold separately or with chainrings.

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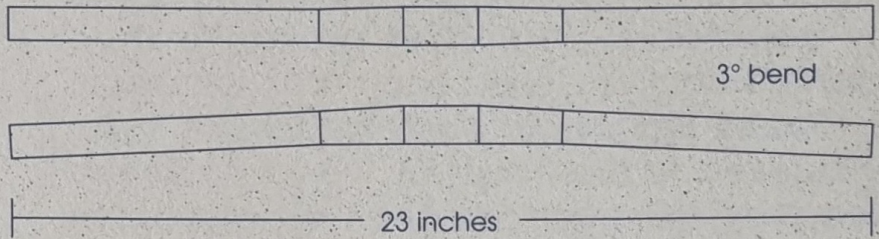
## Allied Chainrings

Avalon's rugged 7075 aluminum **Allied** chainrings are designed as the perfect complement to Avalon's Starlite crankset. Available in standard, compact and road sizes from 20 to 52 tooth. **Allied** chainring's exclusive secondary machining process keeps these rings looking good after miles of riding.



# Thermoplastic Handlebars

Avalon Performance is introducing two new super tough thermoplastic handlebars. The **Peerless 120** and **Black Diamond** handlebars are manufactured using carbon fiber / polyamide nylon thermoplastic.

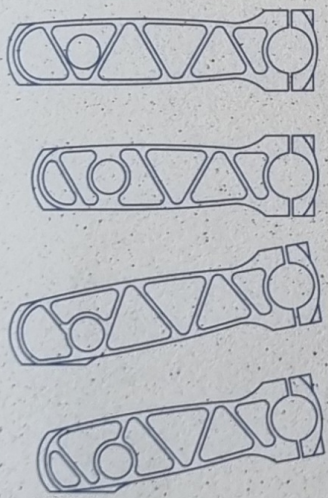


The **Peerless 120** is designed for the cross country rider who is looking for a lightweight bar without sacrificing performance and safety. This bar weighs in at 112 grams. It has been fatigue tested using a 400 lb. load to 600,000 cycles without damage and has a mean static load of 670 lbs.

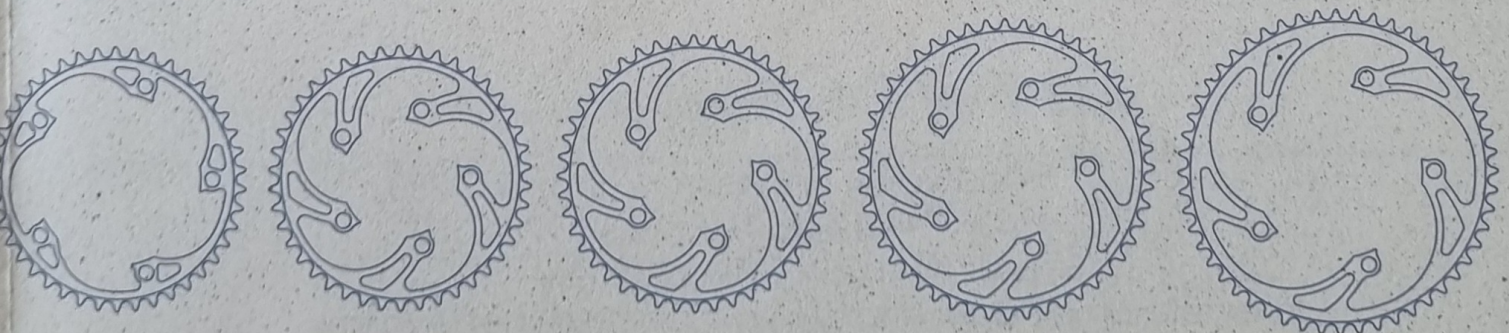
The **Black Diamond** is designed for the aggressive downhill rider who demands the ultimate in strength and durability. This bar weighs in at 130 grams. It has been fatigue tested using a 500 lb. load to 1,000,000 cycles without damage and has a mean static load of over 800 lbs.

To put these number in perspective, most lightweight aluminum or titanium handlebars will fail at less than 30,000 cycles using a 200 lb. load. (10,000 cycles approximates 1 years worth of riding)

# ARC Stems

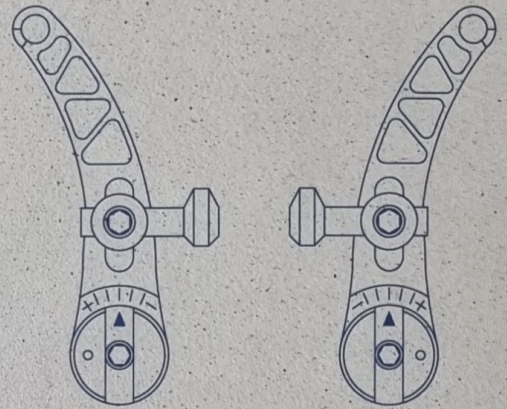


Avalon's new **ARC™** series stems are machined from a solid aluminum billet to form an ultra strong, lightweight stem. Each is designed with Avalon's trademark styling and will enhance the performance of any bike. A removable end cap makes handlebar adjustments a breeze. Extension rings are included to adjust the height of the stem to match the rider's preference. **ARC's** are available in four sizes :120mm/0°, 120mm/10°, 135mm/0°, 135/10°, and fit 1 1/8 inch steering tubes. A quill adapter is available in 1", 1 1/8", and 1 1/4" sizes. The **ARC** series stems are available in four colors.



## Speed Brakes & Levers

Designed to be light weight and strong, these fully adjustable cantilever brakes feature Avalon's distinctive design and quality engineering. **Speed Brakes** are easily adjustable using the indexed tension control. Avalon's **Speed Levers** are CNC machined from 7075 aluminum. These light weight brake levers feature Avalon's unique design and will enhance the stopping power of any mountain bike.



## More New Products . . .

As part of Avalon's on going commitment to constantly enhance its product line, new products will be introduced throughout 1996. In addition to our strong background in CNC aluminum manufacturing, Avalon will be developing many new revolutionary products utilizing our thermoplastic expertise. Some of the new products which are currently being developed include thermoplastic bar ends, seatposts, hubs, and cranks. Further down the road, Avalon will push this technology into frames and composite wheels.



*Avalon Performance products are available from specialty bike dealers everywhere. For more information, call 1-800-774-4840, or write to:*

## Avalon Performance

1555 West Broadway • Anaheim, California 92802

800-774-4840, 714-774-4840, Fax 714-778-1353

E-mail: AVALONPER@AOL.COM

Internet Home Page: <http://www.Spectrum.net/Avalon/>

## Avalon on the Internet

Beginning in the Fall of 1995, Avalon will be launching its Internet Home Page. Through the Internet's interactive environment, users will be able to browse an online full color catalog, read product descriptions, send e-mail, and find authorized Avalon dealers around the world.