

 **KONA**



**1992
MOUNTAIN
BIKES**



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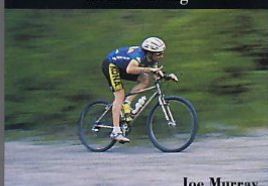
DESIGNFRONT
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THE IMPORTANCE

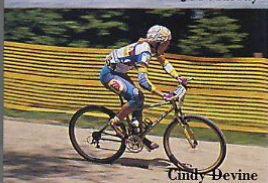
Joe Murray



Kona Racing



Joe Murray



Cindy Devine



Kris Oetter

Impact Headset



JOE MURRAY

Winning Racer. Winning Designs.

Joe Murray has been racing and defeating the world's best mountain bike racers for 10 years, longer than any other competitor. With over 75 victories and two NORBA National Championships, his outstanding achievements in the sport were recognized with his induction as an original member of the Mountain Bike Hall of Fame in 1988. Joe has created over 60 original frame and component designs. Drawing on his experience as a racer, and his working relationship with some of the world's leading frame and component makers he develops innovative and intelligent designs for Kona.

There are no marketing executives in our company to blur Joe's vision. He makes all the technical drawings that become the blueprints which shape the integrity of every Kona mountain bike.

KONA RACING

Commitment to Development.

Ever since Joe Murray and other mountain bike pioneers began riding the first multi-speed off-road bikes, the focus of riding and product development has been to improve the self-sufficiency of the rider. Racing has been the catalyst to push designers and manufacturers to make bicycles and components that are lighter, stronger and more reliable.

Kona is committed to supporting mountain bike racing throughout the world with the sponsorship of our professional team. Joe Murray, World Downhill Champion Cindy Devine and Kris Oetter consistently compete and win at the top level. In addition, our professional development program will support over 100 racers around the world in 1992. These riders test new and existing equipment to the limit, representing the leading edge in our quest to make Kona mountain bikes the best.

SLOPING TOP TUBE FRAME

Good Reasons for a Good Design.

Joe Murray didn't invent the sloping top tube. The design has been around for over 100 years. But he adapted and refined and tested and raced the design with so much success that almost every bicycle company in the world offers one or more sloping top tube mountain bikes in their line.

It makes sense. Clearance and stand over height is greater. The frame is smaller and lighter. With a shorter seat tube, there is less flex at the bottom bracket, the rear triangle is tighter and smaller, and acceleration is significantly improved.

KONA HANDLEBARS

The Weight Factor.

Lighter than the lightest heat-treated cromoly handlebar, aluminum (165 grams) and titanium (150 grams) provide weight savings of 100 to 200 grams while being more forgiving to tired arms, necks and backs.

IMPACT HEADSET

Elementary Strength.

A headset is not a complicated part of a bicycle. Very simply, it must be strong in the lower race and easy to adjust. Most headsets require expensive tools and fussy adjustment. The Impact can be adjusted by hand and secured with a simple 4mm allen key. The lower ball bearings are 1/4", much stronger than standard 5/32" bearings used in other headsets. Combined with the longer head tube created by Kona's sloping top tube frame, the Impact headset will last longer than any other "revolutionary" headset made.

PROJECT TWO FORK

Straight Ahead.

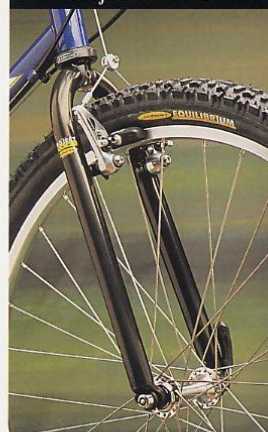
Next to the frame, the front fork is most important in determining riding performance. Project Two is a proven design with 5 years of competition testing by the Kona mountain bike racing team. Re-designed for 1992, it's better than ever, with a new dropout and triple-butted blades combining to save 150 grams on the total weight.

Project Two provides exceptional torsional strength, steering and comfort.

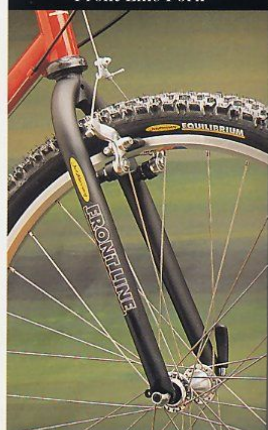
FRONT LINE FORK

New for 1992, Joe Murray's Front Line fork was developed with Tange to continue the evolution begun with the Project Two and to take advantage of new ideas to improve steering and shock absorption characteristics. Front Line has large diameter, triple-butted straight cromoly blades to provide excellent torsional strength and stability. However, the lower blade section is ovalized laterally and the investment cast dropout is offset so that the hub axle center is behind the center line of the blade. It's a unique solution that increases the shock absorbing qualities of the fork and improves rider comfort and control at the same time.

Project Two Fork



Front Line Fork



Future Shock Fork

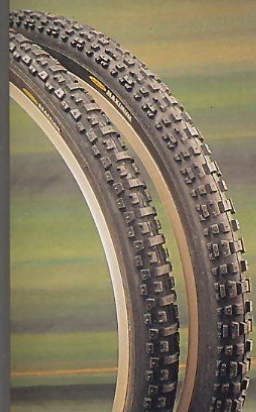


OF GOOD DESIGN

Equilibrium/Propulsion Tires



Maximum/Reaction Tires



O-Beam Seatpost



FUTURE SHOCK FORK

Stability and Suspension.

Future Shock provides a sensible middle ground by combining suspension with stability.

In comparison to telescoping motorcycle style forks,

Future Shock has superior torsional rigidity. A straight cromoly main blade, with leading end links connects to a secondary fork.

Suspension is provided by two double density urethane shock absorbers which can be pre-loaded by a simple lock nut. Dampening can also be rider adjusted by tightening or loosening the link pivots. This fork allows for comfort in the roughest situations without compromising quickness and solid feel.

EQUILIBRIUM/PROPULSION TIRES

Traction System.

Mountain bike tires have to work together. Equilibrium 26 x 2.2 on the front, combined with Propulsion 26 x 2.0 on the rear, work beautifully. Equilibrium is designed to absorb maximum shock, improve stability and provide confident steering. Propulsion's V-shape tread accelerates and climbs efficiently. Both made with the highest quality casing in the world, available in Kevlar bead or Steel bead.

MAXIMUM/REACTION TIRES

The Original Pair.

Maximum/Reaction was the first pair of matching mountain bike tires, pioneering the concept for Equilibrium/Propulsion. Maximum 26 x 2.2 front tire is comfortable, provides predictable steering. Reaction 26 x 2.0 rear tire has a wide center band of knobs for excellent acceleration and climbing characteristics.

Available in Kevlar bead (625 grams) and Steel bead (675 grams).

VELOCITY STEM

Strong Direction.

Riders who demand high performance from their bike and body need the right link between the frame and the handle bar. Joe Murray's Velocity stem is a low profile design, primarily designed for racing and training. A slotted cable guide enables quick cable maintenance and adjustment. Available in cromoly, heat-treated cromoly, and titanium versions.

O-BEAM SEATPOST

Secured Seating.

Strength, length, and lightweight. That's what the new O-Beam seatpost provides. Only 335 grams, this 350mm long aluminum seatpost secures your saddle with two easy to use fixing bolts instead of one. Saddle adjustment is easier, more precise, and more secure.

Also available in titanium.

HORSESHOE

Reinforced Stop.

All Kona mountain bikes are equipped with low-profile cantilever brakes on the rear. This provides excellent clearance for the heels, mounting fenders, racks and mud build-up. A Joe Murray Horseshoe is attached to the brake, and combined with extra-strong double taper seat stays provides maximum stopping power.

GREASESEALER BOTTOM BRACKET

Grease Injection System.

Every Kona mountain bike has a bottom bracket that can be greased without dismantling. Simply pump two or three times with your grease injector through the grease port located under the bottom bracket.

JOE'S CLIPS

Comfort in the Power Zone.

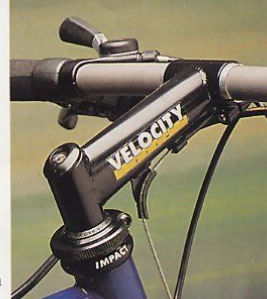
The first ergonomically designed toe clip system, Joe's clips have a wide platform and a specially shaped toe box for full support. Foothold and shoe position can be fine tuned with two toe straps. Toe flips allow easy pedal access.

COMBO CAGE

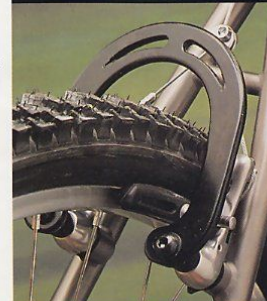
Essentials.

Don't leave home without a fully stocked Combo Cage. This original design carries a water bottle, patch kit and tire levers in one simple and neat package, easily mounted and readily accessible on the Kona down tube braze-on fittings.

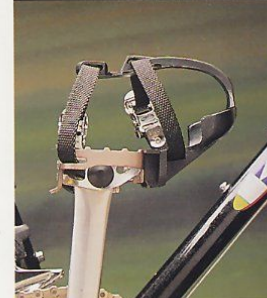
Velocity Stem



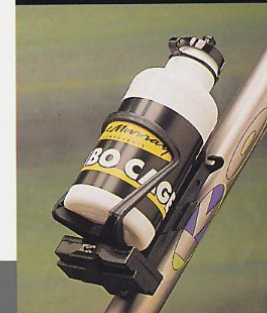
Horseshoe



Joe's Clips

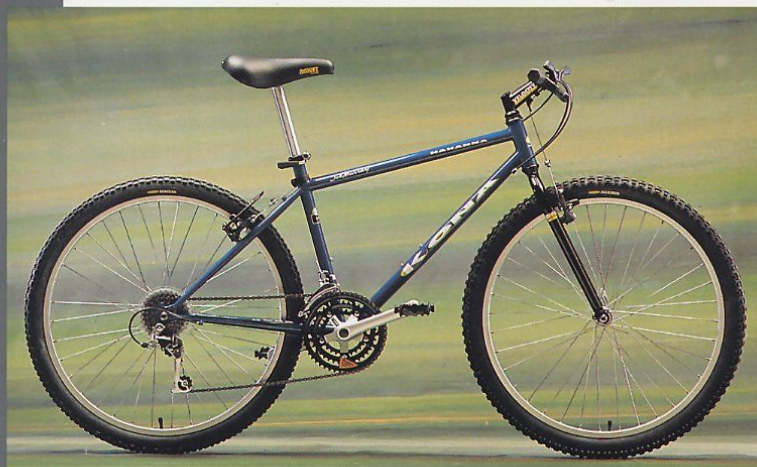


Combo Cage





KONA



HAHANNA

Innovative Design. Multi-purpose Fun.

Most companies lavish all their time and attention on a top of the line model, then expect you to believe the "trickle-down theory" of performance. Not Kona. Every bicycle shares the same design philosophy, including our multi-purpose on-off road vehicle, Hahanna (means "Hot" in Hawaiian). Joe Murray's sloping top tube performance geometry. Project Two Sport fork. Maximum/Reaction tires. Velocity Sport stem. Horseshoe brake reinforcing plate. Greasealer bottom bracket. Shimano 200 LX component group. It's a hot performance package with all of the up to date technology to make your fat tire riding the most fun you've ever had.



FIRE MOUNTAIN

Outstanding Performance.

Entry Level Price.

The Fire Mountain demands and deserves to be ridden hard. Joe Murray's performance geometry on a cromoly frame with Project Two Sport fork will give you the confidence to ride stronger than ever before. We firmly believe that no other company makes a better *real* mountain bike in this price range. Bicycling Magazine agreed with us. They called it one of the best buys of 1991. The component package includes Shimano 300 LX component group, Maximum/Reaction tires, Velocity Sport stem, Greasealer bottom bracket and Horseshoe. We know you'll be a believer, too!



LAVA DOME

Competition Ready.

Joe Murray set out to design the most affordable and best performing *true* race machine. The Lava Dome. It's an unqualified success. Kona double-butt tubing. Project Two fork. A full selection of components and accessories by Joe Murray: Maximum/Reaction tires, Velocity stem, Kona 165 aluminum bar, Joe's Clips, Horseshoe, Combo Cage combined with Shimano 500 LX component group. You'll be proud to fly the Lava Dome at the races.

KONA



HOT

American Craftsmanship. Incredible Value.

It is possible to quantify the difference between an individually hand-crafted mountain bike frame and a production bike. It is worth the wait for an American built frame for those who understand and push mountain bikes to the limit. Kona Hot is the collaboration of Joe Murray and one of America's most experienced and respected mountain bike builders. It starts with a custom mix of Tange Prestige, Concept, Ultra-Light and Ultra-Strong tubing, and is TIC welded for strength and light weight. You finish the creation with Kona's custom selection of component groups, component options, braze-ons and colors.



HEI HEI

Championship Titanium.

Joe Murray has been designing and racing titanium mountain bikes from the beginning. He has proven the reliability and performance of titanium with five successful years of racing. It's also the bike of Iditabike Champions, Rocky Riefenstahl and Gail Koepf, and 1990 Downhill World Champion, Cindy Devine, who called the Hei Hei "An amazing bike. It inspires confidence in a rider". Titanium alloy is the ideal material for a mountain bike, stronger than the best cromoly steel, lighter, more comfortable and efficient than aluminum. Made in the USA with aircraft quality titanium alloy, the Hei Hei (means "Race" in Hawaiian) is the ultimate in high-technology mountain bike racing performance.



HAOLE

The Perfect Ride.

A combination of road and mountain bike riding can complement a rider's strength in both disciplines. By using the same material and technology as the successful Hei Hei mountain bike, Joe Murray has developed a superlative road machine. Titanium alloy has rapidly become the material of choice for road racing bicycles. Anyone who has ridden a titanium road frame will tell you it's the sweetest ride attainable "off dirt". The balance of resilience, comfort and lightweight is unbeatable. This just might be the last road bike you will ever buy.



CINDER CONE

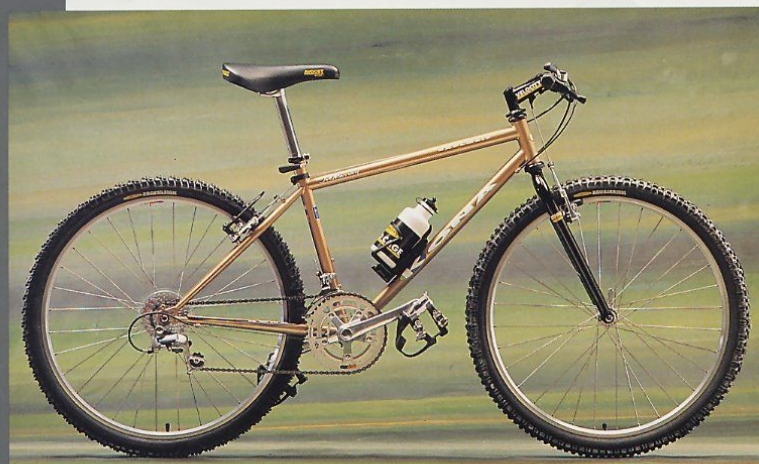
Hot Tubes. Hot Ride.

Cinder Cone takes advantage of bicycling's best value in a mountain bike component group: Suntour XC Limited, often found on bicycles priced almost twice as high. Joe Murray's sloping top tube design uses the lightest Kona butted cromoly tubing and Project Two triple-buttet fork. Combined with the outstanding Equilibrium/Propulsion tires, and Joe Murray's performance component package, the Cinder Cone is a flaming hot ride!

EXPLOSIF

Complete High Performance. Race Package.

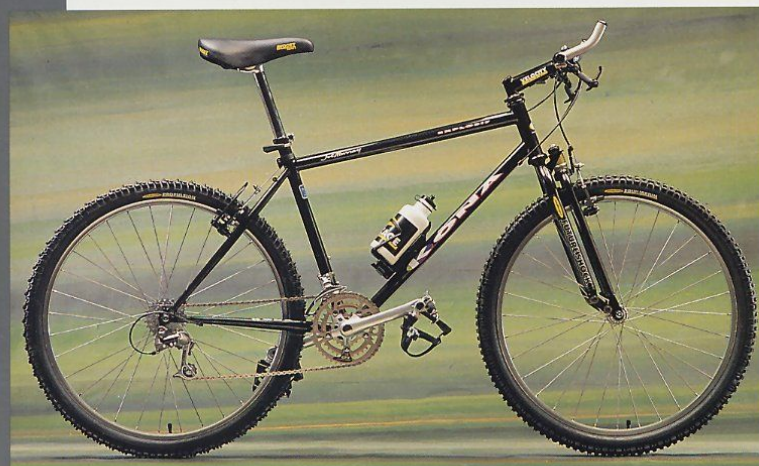
The Explosif has quickly and quietly gained a reputation as the limited production bike that rides like a hand built. It starts with the best heat-treated mountain bike tubing: Tange Prestige Concept. Original in it's thin wall, specially shaped design, it is remarkably strong, rigid and light. Joe Murray's Front Line fork adds another dimension of strength, stability and steering. Explosif uses a mix of Shimano Deore DX and XT components for outstanding value. OK, we know there are cheaper bikes with DX, but what do you want, good cheap parts, or a fully engineered race machine that knows no limits?



EXPLOSIF PRO

Follow the Black Line.

Every Kona mountain bike is available in black, in addition to it's color. All of our tires have black skinwalls, too. There is an undisputable elegance to a color whose simplicity incorporates every other color. What's this got to do with the Explosif Pro? Our stock version is only available in black, although our custom version comes in any other Dupont Imron color combination that comes to your imagination. Explosif Pro features Suntour's HOT new XC Pro Micro Drive component groups and component options. Simply stated, the Explosif is a custom bike with a production price tag. Just follow the black line and build your own superbike.





	HAHANNA	FIRE MOUNTAIN	LAVA DOME	CINDER CONE
FRAME	Kona Cromoly	Kona Cromoly	Kona Butted Cromoly	Kona Light Butted Cromoly
FORK	Joe Murray Project Two Sport	Joe Murray Project Two Sport	Joe Murray Project Two	Joe Murray Project Two Triple-Butted
HEADSET	Scaled Tech	Scaled Tech	Joe Murray Impact	Joe Murray Impact
CRANKS	Shimano 300 LX	Shimano 300 LX	Shimano 500 LX	Suntour XC LTD
BOTTOM BRACKET	Tange with Greasealer	Tange with Greasealer	Tange with Greasealer	Tange with Greasealer
PEDALS	LXT	LXT Racing	LXT Racing Alloy with Joe's Clips	SR Low Fat with Joe's Clips
CHAIN	Shimano Hyperglide	Shimano Hyperglide	Shimano Hyperglide	Suntour PowerFlo
FREEWHEEL	Shimano Hyperglide 13-30 7 Speed	Shimano Hyperglide 13-30 7 Speed	Shimano Hyperglide 13-30 7 Speed	Suntour PowerFlo 13-30 7 Speed
DERAILLEURS	Shimano 200 LX	Shimano 300 LX	Shimano 500 LX	Suntour XC LTD
SHIFTERS	Shimano 200 LX Top Mount	Shimano 200 LX Top Mount	Shimano Deore DX Top Mount	Suntour XC LTD Top Mount
HANDLEBAR	Kona MTB	Kona MTB	Kona 165 Aluminum	Kona 165 Aluminum
STEM	Joe Murray Velocity Sport	Joe Murray Velocity Sport	Joe Murray Velocity	Joe Murray Velocity Heat-Treated
BRAKES	Shimano 200 LX Cantilevers/Lever	Shimano 300 LX Cantilevers/Lever	Shimano 500 LX Cantilevers Deore DX Levers	Dia Compe 986 Front, Suntour XC LTD Rear, XC LTD Levers
HUBS	Shimano 500 LX Cassette	Shimano 500 LX Cassette	Shimano 500 LX Cassette	Suntour XC LTD Cassette
RIMS	Araya MP-22 36 hole	Araya VP-20 36 hole	Araya RX-7 36 hole	Ukai UM-17 32 Hole
TIRES	Joe Murray Maximum/Reaction	Joe Murray Maximum/Reaction	Joe Murray Maximum/Reaction	Joe Murray Equilibrium/Propulsion
SADDLE	Avocet Touring	Avocet Racing	Avocet Racing	Avocet Racing I
SEAT POST	Kalloy	Kalloy SP-242	Kalloy SP-242	Joe Murray O-Beam
COLORS	Turquoise or Black	Lime Green or Black	Purple or Black	Red or Black
BRAZE-ONS	Fender, Rear Rack, Two Water Bottles	Fender, Rear Rack, Two Water Bottles	Fender, Rear Rack, Two Water Bottles	Fender, Rear Rack, Two Water Bottles
	EXPLOSIF	EXPLOSIF PRO	HOT*	HEI HEI*
FRAME	Tange Prestige Concept	Tange Prestige Concept	Tange Prestige Concept Ultra Light / Ultra Strong	Titanium Alloy 3 - 2 1/2
FORK	Joe Murray Project Two Triple Butted	Joe Murray Project Two Triple Butted	Joe Murray Front Line	Joe Murray Front Line
HEADSET	Joe Murray Impact	Joe Murray Impact	Joe Murray Impact	Joe Murray Impact
CRANKS	Shimano Deore DX	Suntour XC Pro Micro Drive	Shimano Deore XT	Shimano XT
BOTTOM BRACKET	Shimano Deore DX w/Greasealer	Suntour XC Pro Grease Guard	Shimano Deore XT	Shimano XTR
PEDALS	SR Low Fat Comp with Joe's Clips	Suntour XC Pro Grease Guard with Joe's Clips	Shimano Deore XT Clipless	Shimano Deore XT Clipless
CHAIN	Shimano Hyperglide	Suntour PowerFlo	Shimano Hyperglide	Shimano Hyperglide
FREEWHEEL	Shimano Hyperglide 12-28 7 Speed	Suntour PowerFlo 11-24 7 Speed	Shimano Hyperglide 12-28 7 Speed	Shimano Hyperglide 12-28 7 Speed
DERAILLEURS	Shimano Deore XT	Suntour XC Pro	Shimano Deore XT	Shimano XTR
SHIFTERS	Shimano Deore XT Top Mount	Suntour XC Pro Top Mount	Shimano Deore XT Top Mount	Shimano XTR Rapidfire Plus
HANDLEBAR	Kona 165 Aluminum	Kona 150 Titanium	Kona 165 Aluminum	Kona 150 Titanium
STEM	Joe Murray Velocity Heat-Treated	Joe Murray Velocity Heat-Treated	Joe Murray Velocity Heat-Treated	Joe Murray Velocity Heat-Treated
BRAKES	Shimano Deore DX Cantilevers/Levers w/ Joe Murray Horseshoe	Suntour XC Pro Cantilevers/Levers w/ Joe Murray Horseshoe	Shimano Deore XT Cantilevers/Levers w/ Joe Murray Horseshoe	Shimano XTR Cantilevers/Levers w/ Joe Murray Horseshoe
HUBS	Shimano Deore DX Cassette	Suntour XC Pro Grease Guard Cassette	Shimano Deore XT Cassette	Shimano XTR Cassette
RIMS	Ukai UM-17 32 hole	Araya RM-400 32 hole	Araya RM-400 32 hole	Araya RM-400 32 hole
TIRES	Joe Murray Equilibrium/Propulsion	Joe Murray Equilibrium/Propulsion	Joe Murray Equilibrium/Propulsion	Joe Murray Equilibrium/Propulsion
SADDLE	Avocet Racing I	Avocet Racing I	Vetta FACSA	Avocet Racing II
SEAT POST	Joe Murray O-Beam	Joe Murray O-Beam	Shimano Deore XT	Shimano Deore XT
COLORS	Gold Metallic or Black	Black Metallic (Custom: Most Dupont Imron)	Most Dupont Imron	Kohanna
BRAZE-ONS	Fender, Rear Rack, Two Water Bottles	Fender, Rear Rack, Two Water Bottles	Two Water Bottles	Two Water Bottles
EXTRAS	Joe Murray Combo Cage	Joe Murray Combo Cage	Joe Murray Combo Cage	Joe Murray Combo Cage
OPTIONS		Joe Murray Future Shock Fork Shimano Deore DX Shimano Deore XT Shimano XTR Titanium Luxury Package	Joe Murray Future Shock Fork Rapidfire Plus Shimano Deore DX Shimano XTR Suntour XC Pro Titanium Luxury Package	Joe Murray Future Shock Fork Shimano Deore XT Suntour XC Pro Titanium Luxury Package

*HOT & HEI HEI frameset only in U.K.



GEOMETRY

	A	B	C	D	E	F	G
16"	70.5	74	21.75"	16.75"	41.5"	1.65"	11.5"
18"	71.0	73	22.5"	16.75"	42.0"	1.65"	11.75"
19"	71.0	73	23.0"	16.75"	42.5"	1.65"	11.75"
20"	71.0	73	23.5"	16.75"	43.0"	1.65"	11.75"
21"	71.0	73	24.0"	16.75"	43.7"	1.65"	11.75"

Specifications subject to change without notice.

HAOLE GEOMETRY

Frame Size (center to top)	53	55	57	59
Drop	7	7	7	7
Seat Angle	74	73.5	73	73
Head Angle	73	73.5	73.5	74
Top Tube	54.6	55.3	55.9	56.5
Chain Stay	40.6	40.6	56.5	40.6