

MTB/ASPHALT BIKES 2011



The dictionary defines the word "reinvent" as "To remake or make over, as in a different form". People and organizations choose to take on reinvention for a variety of reasons. For some, reinvention happens in response to the environment and conditions around them. For others, it's in response to a deep-rooted desire to improve their game and raise the bar for everyone else to follow.

2011 marks a model year of reinvention for Haro Bicycles. Never before in our history have we undertaken such a bold top-to-bottom product line transformation as we have taken on for 2011. Nearly every bike in our line got a complete makeover with new paint and graphics, upgraded components, and in most cases, redesigned frames.

The decision to reinvent our new line was born out of an ambition to stand out in a crowd of look-alike "me too" bicycles. We don't drive vehicles that look exactly like every other car on the road, so why would you want your bicycle to look just like the rest of the bikes you see on the trail or bike path?

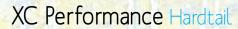
Our 2011 MTB/Asphalt line cures the cookiecutter bike problem with a healthy dose of twowheeled self-expression. They're bold. They're spirited. They are as individual as you are.

Who says you can't reinvent the wheel? We think we just did.

Haro Bikes. Ride More.







You decided to give mountain biking a try with some friends and now you are hooked. There's just one problem...that ol' beater bike of yours can't take much more of the abuse you and your local trails are throwing at it. It's time to trade up so you can keep up. All of the bikes in our Performance XC Hardtail category are excellent stepping stones for taking your riding to the next level. Lightweight alloy frames, hydraulic disc brakes, double wall rims, and a host of trail worthy components are designed to take you off the bike path and onto epic singletrack.







Flightline Expert

All-new aluminum Flightline frame with K7 ultra light front triangle and double-butted chain stay and seat stay, smooth welded

K7 tubing has a much higher tensile strength than 6061 tubing which means less material can be used; resulting in a frame that is much lighter weight. Smooth frame welds and integrated bearing headset for a crisp clean look

RockShox Tora TK Coil 100mm travel fork with TurnKey lockout

The Tora is unmatched in its class for performance and value! Fork also features TurnKey lockout to increase riding efficiencies uphill.

Shimano 9-speed drivetrain topped off with a Shimano XTR rear derailleur

With Shimano cranks, shifters, front derailleur, and rear derailleur, you are ensured of smooth, integrated shifting performance. The XTR rear derailleur is the "crown jewel" of bicycle components.

Shimano SLX hydraulic disc brakes

The opposed two-piston SLX system features Shimano's exclusive Servo Wave technology which allows for more pad clearance, more lever travel, and improved modulation and stopping power.

WTB Rocket V Comp saddle

There is a reason why this is one of the most popular saddles purchased aftermarket: it's comfortable, light, and durable. No need to upgrade the saddle on this bike







Flightline Comp

All-new 6061 aluminum Flightline frame with double-butted top tube, seat tube, and down tube, smooth welded

Double butted tubing increases strength without adding weight by shaping the tubes with more material on the ends where it's needed while using less material in the middle of the tubing where it's not needed. The more butted tubes, the better. Smooth frame welds and integrated bearing headset for a crisp, clean look.

RockShox Dart 2 100mm travel fork with rebound, preload adjust, and lockout

The Dart 2 features lightweight aluminum lower legs for weight savings. Rebound and preload adjust allow you to custom tune your ride to your preferences. Fork also features TurnKey lockout to increase riding efficiencies uphill.

Shimano XT Shadow rear derailleur with Shimano Deore RapidFire Plus 9-speed shifters

The XT Shadow rear derailleur sits more inboard than a standard rear derailleur, neatly tucked away and protected from potentially damaging roots, rocks, and other obstacles.

Shimano M445 hydraulic disc brakes

Excellent performance in a new hydraulic disc brake system that's affordably priced. Low-profile, streamlined lever design looks great and performs flawlessly. Uses non-corrosive, environmentally-friendly mineral oil.

Truvativ E400 3.0 cranks with 44/32/22 chainrings

Truvativ cranks consistently offer smooth shifting performance and outstanding quality. Forged alloy arms are strong and durable. The E400 cranks feature fully-replaceable chainrings.







Flightline Trail

All-new 6061 aluminum Flightline frame with lightweight oversized tubing, smooth welded

By using oversized aircraft-grade tubing, it allows us to construct frames with thinner walls that are light, stiff, and durable. Smooth frame welds and integrated bearing headset for a crisp, clean look.

RST Gila Pro 100mm travel fork with hydraulic lockout

Plush, reliable travel in a fork that won't break the bank account! RST boasts over 20 years of fork manufacturing experience. Oversized 32mm stanchions provide greater stiffness for improved control.

Shimano SLX Shadow rear derailleur with new Alivio 9-speed shifters

The Shimano 9-speed shifting system works flawlessly together for effortless, precise shifting. The SLX Shadow rear derailleur sits more inboard, neatly tucked away and protected from potentially damaging roots, rocks, and other obstacles.

Shimano M445 hydraulic disc brakes

Excellent performance in a new hydraulic disc brake system that's affordably priced. Low-profile, streamlined lever design looks great and performs flawlessly. Uses non-corrosive, environmentally-friendly mineral oil.

Kenda Kadre 2.1 tires mounted to Weinmann XTB-24 doublewall rims

Awesome non-directional tire that hooks up great in a variety of riding conditions. Smooth rolling! The XTB-24 doublewall rims are light and stiff...perfect for singletrack shredding.







Flightline Sport

All-new 6061 aluminum Flightline frame with lightweight oversized tubing, smooth welded

By using oversized aircraft-grade tubing, it allows us to construct frames with thinner walls that are light, stiff, and durable. Smooth frame welds and integrated bearing headset for a crisp, clean look.

SR Suntour XCM-HLO 100mm travel fork with preload adjust and hydraulic lockout

100mm of travel really helps smooth out the trail. Lockout makes climbing more efficient. Fork spring preload allows you to adjust your fork to your body weight and riding style.

Shimano Alivio rear derailleur powered by Shimano Alivio 8-speed shifters

You can't beat Shimano for flawless performance and reliability. The Shimano 8-speed shifters paired up with a Shimano Alivio rear derailleur deliver a winning shifting combo!

Promax Hornet hydraulic disc brakes

The Hornet dual piston hydraulic disc brake system features a patented anti-impact and anti-leak master cylinder design for added durability and reliability. Awesome braking performance at a great value.

Shimano Altus M311 cranks with 42/32/22 chainrings

Smooth shifting and reliability you have come to expect from Shimano. Oversized alloy arms are light and stiff.









Flightline Three

All-new 6061 aluminum Flightline frame with lightweight oversized tubing

By using oversized aircraft-grade tubing, it allows us to construct frames with thinner walls that are light, stiff, and durable. Aluminum also means it's rust-free, so your bike will look great for years.

SR Suntour XCTV2 100mm travel suspension fork

Backed by over 20 years of fork making experience, SR Suntour delivers exceptional value and great performance. Preload adjust allows you to tune your fork to your body weight and riding style.

Shimano Acera rear derailleur powered by Shimano EZ Fire 8-speed shifters

Just as the name implies, EZ Fire shifters are simple and effective. The Acera rear derailleur is not only reliable, it yields clean, precise shifts at a great value price.

Promax mechanical disc brakes

Once you try disc brakes, you'll never go back to v-brakes. The Promax mechanical disc brake system is reliable and doesn't lose stopping power in wet, muddy, or dusty conditions.

Kenda Kadre 2.1 tires mounted to Weinmann ZAC 19 doublewall rims

Awesome non-directional tire that hooks up great in a variety of riding conditions. Smooth rolling! ZAC 19 doublewall rims are light and strong...a must for off-road use!







Flightline Two

All-new 6061 aluminum Flightline frame with lightweight oversized tubing

By using oversized aircraft-grade tubing, it allows us to construct frames with thinner walls that are light, stiff, and durable. Aluminum also means it's rust-free, so your bike will look great for years.

SR Suntour M3000 70mm travel fork with alloy lower legs

Backed by over 20 years of fork making experience, SR Suntour delivers exceptional value and great performance. 70mm of travel soaks up all the stuff that goes bump on the trail. Alloy lower legs offer a substantial weight savings over steel.

Shimano Acera rear derailleur powered by Shimano EZ Fire 8-speed shifters

Just as the name implies, EZ Fire shifters are simple and effective. The Acera rear derailleur is a nice upgrade over the Flightline One; yields cleaner, more precise shifts.

Tektro direct-pull brakes with linear spring

Excellent stopping power and easy to maintain. Tektro brakes have all-aluminum spring adjuster parts making brake adjustment simple and keep bike weight down.

Shimano 8-speed cassette rear hub

This seemingly "invisible upgrade" is an extremely important one! Cassette rear hubs are easier to service, more reliable, and stronger than freewheel hubs. Shimano does cassette hubs right!







Flightline One

All-new 6061 aluminum Flightline frame with lightweight oversized tubing

By using oversized aircraft-grade tubing, it allows us to construct frames with thinner walls that are light, stiff, and durable. Aluminum also means it's rust-free, so your bike will look great for years.

Haro 50mm travel suspension fork

50mm of travel is just enough to smooth out the bumps, making your ride much more enjoyable. For new riders, a suspension fork increases confidence on the bike for a better riding experience.

Shimano Altus rear derailleur powered by Shimano EZ Fire 7-speed shifters

Just as the name implies, EZ Fire shifters are simple and easy to use. A Shimano Altus rear derailleur gives you years of worry-free performance.

Pivit alloy front and rear hubs with quick release skewers

Alloy hub bodies for lower overall wheel weight. Quick release skewers make wheel removal a snap for bike transport and flat tire repair.

Kenda Kadre 2.1 tires mounted to lightweight alloy rims

The Kenda Kadre tires provide excellent traction yet roll smoothly on either pavement or dirt. Mounted to alloy rims for lower overall wheel weight.







Flightline One ST

All-new 6061 aluminum Flightline step-thru frame with lightweight oversized tubing

By using oversized aircraft-grade tubing, it allows us to construct frames with thinner walls that are light, stiff, and durable. Aluminum also means it's rust-free, so your bike will look great for years. Step-thru frame for increased standover.

Haro 50mm travel suspension fork

50mm of travel is just enough to smooth out the bumps, making your ride much more enjoyable. For new riders, a suspension fork increases confidence on the bike for a better riding experience.

Shimano Altus rear derailleur powered by Shimano EZ Fire 7-speed shifters

Just as the name implies, EZ Fire shifters are simple and easy to use. A Shimano Altus rear derailleur gives you years of worry-free performance.

Pivit alloy front and rear hubs with quick release skewers

Alloy hub bodies for lower overall wheel weight. Quick release skewers make wheel removal a snap for bike transport and flat tire repair.

Kenda Kadre 2.1 tires mounted to lightweight alloy rims

The Kenda Kadre tires provide excellent traction yet roll smoothly on either pavement or dirt. Mounted to alloy rims for lower overall wheel weight.







Flightline Twenty Four

Lower profile 6061 aluminum frame with 12" frame size

Lightweight aluminum means less weight for young riders to get up the hills or bring to a stop. Our lower-profile frame is confidence inspiring and safe since the top tube is positioned lower on the bike.

SR Suntour M3000 50mm travel suspension fork with alloy lower legs

With over 20 years of fork making experience, SR Suntour delivers exceptional value and great performance. 50mm of travel is just enough to smooth out the bumps and provide more control. Alloy lower legs offer a substantial weight savings over steel.

Shimano Tourney rear derailleur powered by Shimano Revo 7-speed twist shifters Shimano twist shifters are extremely easy for children to use and learn to shift. Shimano Tourney rear derailleur is simple, reliable, and effective.

Promax forged alloy direct-pull brakes with linear spring

Excellent stopping power and easy to maintain. Promax brakes have all-aluminum spring adjuster parts making brake adjustment simple and keep bike weight down.

Lightweight 24" aluminum wheelset with Kenda 831A 2.1 tires

Lightweight wheels are a key area to save as much weight as possible on a child's bike. The Kenda tires are durable with great dirt traction.





Flightline Twenty

Lower profile 6061 aluminum frame with 10" frame size

Lightweight aluminum means less weight for young riders to get up the hills or bring to a stop. Our lower-profile frame is confidence inspiring and safe since the top tube is positioned lower on the bike.

SR Suntour M3000 50mm travel suspension fork with alloy lower legs

With over 20 years of fork making experience, SR Suntour delivers exceptional value and great performance. 50mm of travel is just enough to smooth out the bumps and provide more control. Alloy lower legs offer a substantial weight savings over steel.

Shimano Tourney rear derailleur powered by Shimano Revo 6-speed twist shifters Shimano twist shifters are extremely easy for children to use and learn to shift. The Flightline 20 keeps it simple with a right-hand shifter only. Shimano Tourney rear derailleur is simple, reliable, and effective.

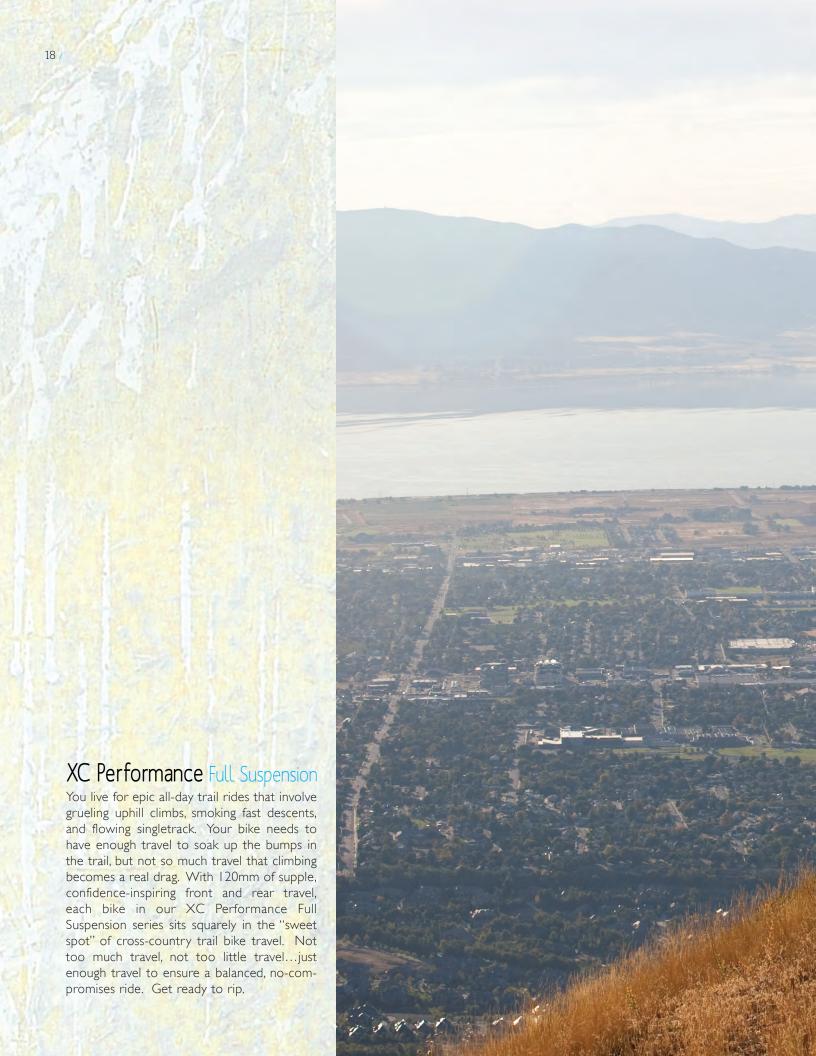
Promax forged alloy direct-pull brakes with linear spring

Excellent stopping power and easy to maintain. Promax brakes have all-aluminum spring adjuster parts making brake adjustment simple and keep bike weight down.

Lightweight 20" aluminum wheelset with Kenda 850 2.0 tires

Lightweight wheels are a key area to save as much weight as possible on a child's bike. The Kenda tires are durable with great dirt traction.









Shift R5

6061 air-formed aluminum 120mm travel frame with sealed bearing pivot

Tried-and-true, proven 120mm travel single pivot suspension design. Simple, effective, and easy to maintain. There's a reason why single pivot suspension has been used for so long by so many frame builders...it works!

RockShox Recon TurnKey Coil 120mm travel fork

A solid performer from the fork manufacturer that started it all! Forged hollow 6061 alloy crown contributes to overall weight savings. Fork also features TurnKey lockout to increase riding efficiencies uphill.

RockShox Ario 2.1 rear shock

Great RockShox reliability, super performance...rebound adjustable to help dial your ride. Aluminum shaft and air sprung for improved weight savings.

Shimano XT Shadow rear derailleur powered by Shimano Deore RapidFire Plus 9-speed shifters

The XT Shadow rear derailleur sits more inboard, neatly tucked away and protected from potentially damaging roots, rocks, and other obstacles. Deore is the workhorse of the Shimano family.

Shimano M445 hydraulic disc brakes

Excellent performance in a new hydraulic disc brake system that's affordably priced. Low-profile, streamlined lever design looks great and performs flawlessly. Uses non-corrosive, environmentally-friendly mineral oil.







Shift R3

6061 air-formed aluminum 120mm travel frame with sealed bearing pivot

Tried-and-true, proven 120mm travel single pivot suspension design. Simple, effective, and easy to maintain. There's a reason why single pivot suspension has been used for so long by so many frame builders...it works!

RockShox Tora TK Coil 120mm travel fork with TurnKey lockout

The Tora is unmatched in its class for performance and value! Fork also features TurnKey lockout to increase riding efficiencies uphill.

RockShox Bar 2.1 rear shock with rebound adjust

Value priced rear air shock from the suspension manufacturer that started it all. Huge weight savings over coil shocks. Rebound adjustable to help dial your ride.

SRAM X.7 rear derailleur with SRAM X.5 9-speed trigger shifters

The SRAM X.7 rear derailleur utilizes the same technology as the much higher end X0 model but in a less expensive package. 9-speed X.5 shifters for a wide gear range.

Hayes MX4 mechanical disc brakes

Powerful stoppers from the original disc brake manufacturer. Easy to set up and maintain. You'll never go back to v-brakes again!







Shift R1

6061 air-formed aluminum 120mm travel frame with sealed bearing pivot

Tried-and-true, proven 120mm travel single pivot suspension design. Simple, effective, and easy to maintain. There's a reason why single pivot suspension has been used for so long by so many frame builders...it works!

SR Suntour XCR-LO 120mm travel fork with lockout and preload adjust

I 20mm of travel helps smooth out the trail and offer better control. Lockout makes climbing a breeze. Fork spring preload allows you to adjust your fork to your body weight and riding style.

X-Fusion coil rear shock with rebound adjust

X-Fusion delivers reliability, performance, and value in one package. No air pressure to check and adjust on a coil shock.

Shimano 8-speed EZ Fire shifters with a Shimano Alivio rear derailleur

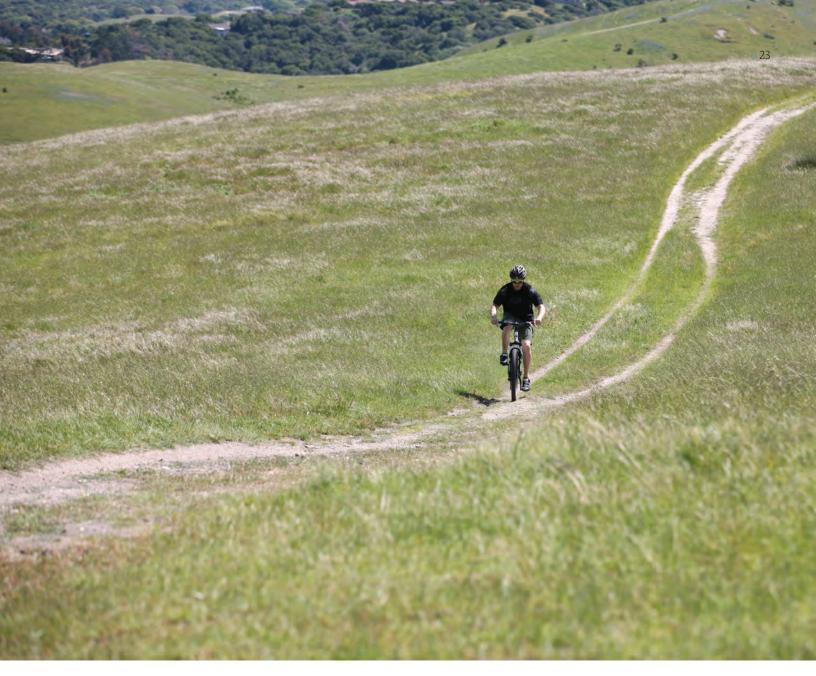
Just as the name implies, EZ Fire shifters are simple, effective, and easy to use. Paired up with an Alivio rear derailleur, you've got winning shifting combo.

Tektro IO mechanical disc brakes

Once you try disc brakes, you'll never go back to v-brakes. The Tektro IO mechanical disc brake system is reliable and doesn't lose stopping power in wet, muddy, or dusty conditions.







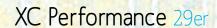
The Shift: Simply Efficient...Simply Fun.

Each of our best-selling Shift series cross country trail bikes features tried-and-true, single pivot suspension. Although single pivot suspension technology is one of the most time-tested on the market, it continues to be one of the most popular frame designs used by frame makers world wide. Why does single pivot technology continue to thrive today? It thrives because it works.

Single pivot bikes are excellent all-around performers in a variety of different riding conditions. The difference between a single pivot frame that performs exceptionally well and one that doesn't boils down to the location of the swingarm pivot on the mainframe. The Low Forward Pivot (LFP) on our Shift frames is located in the "sweet spot" just a few inches above the bottom bracket which yields a plush, supple ride with minimal chain growth, pedal feedback, and brake jack. Hill climbs are where the Shift really shines. When you drop into the granny gear on the front chainrings, the chain angle pulls from below the LFP. This creates greater chain tension and a firmer pedaling platform...which will propel you up the hill instead of just bobbing up and down as you scramble up it.

A big benefit of owning a single pivot bike like a Shift is their simplicity. With just one main pivot, there are fewer moving parts on the frame. Fewer moving parts equals improved durability, less maintenance, and a quieter ride. Each side of the LFP houses a single, aircraft-grade sealed bearing which are easily removed and serviced. The less time you spend maintaining your frame, the more time you have to spend on the trail.

Ideal Shift owner: Dirt aficionado on a budget. Any rider who appreciates simple yet highly effective frame design. Mountain biking purists who prefer to do less tinkering and more riding.



It's safe to say that the 29er movement is more than just a passing fad and has found a permanent home in the mountain bike world. Should it come as any big surprise? We think not. After all, 29-inch wheels roll over rocks, roots and other trail obstacles with ease. The bigger wheel size also has more contact with the ground, so you'll have better traction in corners and on climbs. Want to climb better, descend faster, and corner with more confidence? Throw a leg over a Mary or Flightline 29er and get ready to take your riding to a whole new level.







Mary XC Expert

Custom blend of 4130 cromoly steel frame tubes

Nothing rides quite like cromoly steel; it's lively, compliant, and makes you feel one with the bike. See for yourself why people say "steel is real". Classic Haro "V-Bar" top tube for improved standover.

Marzocchi 44 TST2 80mm travel fork with lockout and 15mm QR axle

Marzocchi enters the 29er fork market with its buttery-smooth 44 TST2 cross-country trail fork. Lockout makes climbing more efficient. The 15mm QR axle is stiffer than a standard 9mm QR and provides better handling and control.

Shimano Deore XT Shadow rear derailleur with Shimano Deore RapidFire Plus 9-speed shifters

The Deore XT Shadow rear derailleur sits more inboard, neatly tucked away and protected from potentially damaging roots, rocks, and other obstacles. Deore is the workhorse of the Shimano family.

Shimano M445 hydraulic disc brakes

Excellent performance in a new hydraulic disc brake system that's affordably priced. Low-profile, streamlined lever design looks great and performs flawlessly. Uses non-corrosive, environmentally-friendly mineral oil.

Truvativ Firex 3.0 GXP cranks with 44/32/22 chainrings

The arms of the Firex cranks are forged out of 6066 aluminum which is superior to 6061 aluminum in terms of strength. The GXP bottom bracket interface is smooth and worry free!







Mary XC Comp

Custom blend of 4130 cromoly steel frame tubes

Nothing rides quite like cromoly steel; it's lively, compliant, and makes you feel one with the bike. See for yourself why people say "steel is real". Classic Haro "V-Bar" top tube for improved standover.

RST M29 Pro 80mm travel fork with adjustable rebound/preload and lock out

The RST M29 has been compared to forks costing three times as much. Check the reviews on MTBR.com! Oversized stanchions provide greater stiffness for improved control.

Shimano Deore rear derailleur with new Alivio RapidFire Plus 9-speed shifters

The Shimano 9-speed drivetrain works flawlessly together for effortless, precise shifting. Durable, reliable, and efficient, Deore is a true workhorse. The new Alivio 9-speed shifters look as great as they perform.

Tektro IO mechanical disc brakes with Avid FR-5 levers

Once you try disc brakes, you'll never go back to v-brakes. The Tektro IO mechanical disc brake system is reliable and doesn't lose stopping power in wet, muddy, or dusty conditions.

Shimano Alivio M430 cranks with 44/32/22 chainrings

Smooth, precise shifting combined with Shimano reliability is a winning crank combination! The Alivio crankset comes with fully replaceable chainrings.







Flightline 29er Expert

All-new 6061 aluminum Flightline 29er frame with lightweight oversized tubing, smooth welded By using oversized aircraft-grade tubing, it allows us to construct frames with thinner walls that are light, stiff, and durable. Smooth frame welds and integrated bearing headset for a crisp, clean look.

RockShox Recon SoloAir 80mm travel fork with TurnKey lockout

A solid performer from the fork manufacturer that started it all! Forged hollow 6061 alloy crown contributes to overall weight savings. The SoloAir single Schrader air valve makes fork set-up simple.

SRAM X9 rear derailleur powered by SRAM X9 trigger shifters

The SRAM name means ultra-crisp and precise shifting. Light and durable. The X9 rear derailleur is based on the same technology as the X0 but made more affordably.

Avid Elixer 5 hydraulic disc brakes

Tool-free reach adjust and top-loading pads make the Elixer 5 an easy brake system to set up and maintain. Excellent power and modulation!

Truvativ Firex 3.0 GXP cranks with 44/32/22 chainrings

The arms of the Firex cranks are forged out of 6066 aluminum which is superior to 6061 aluminum in terms of strength. The GXP bottom bracket interface is smooth and worry free!







Flightline 29er Comp

All-new 6061 aluminum Flightline 29er frame with lightweight oversized tubing, smooth welded By using oversized aircraft-grade tubing, it allows us to construct frames with thinner walls that are light, stiff, and durable. Smooth frame welds and integrated bearing headset for a crisp, clean look.

RockShox Tora TK Coil 80mm travel fork with TurnKey lockout

The Tora is unmatched in its class for performance and value! Oversized 32mm stanchions for added stiffness. Fork also features TurnKey lockout to increase riding efficiencies uphill.

SRAM X.7 rear derailleur with SRAM X.5 9-speed trigger shifters

The SRAM X.7 rear derailleur utilizes the same technology as the much higher end X0 model but in a less expensive package. 9-speed X.5 shifters for a wide gear range.

Tektro Auriga Comp hydraulic disc brakes

This dual piston hydraulic disc brake system uses non-corrosive mineral oil so it's easy on the environment. Excellent power and modulation at a price that won't leave you broke.

Truvativ E400 3.0 cranks with 44/32/22 chainrings

Truvativ cranks consistently offer smooth shifting performance and outstanding quality. Forged alloy arms are strong and durable. The E400 cranks feature fully-replaceable chainrings.





Built for the job

Skateparks. Dirt jumps. Pump tracks. Street riding spots. You see a lot of BMX bikes at places like this. Sure BMX bikes are a lot of fun, but you can have a lot more fun at your local skatepark or dirt jump spot on a mountain bike. With a larger wheel size than a BMX bike, a mountain bike is far more stable. However, if you want to keep all your teeth in your face, not just any mountain bike will get the job done. You need a bike that's specifically designed to take the abuse that's engineered with the right geometry.

Our Freestyle MTB series bikes aren't just dumbed-down cross-country trail frames with some burly parts strapped to them. They aren't just BMX bikes with big wheels either. Think of these bikes as the "missing link" between a BMX bike and a mountain bike...the ultimate play bike.

All of the parts we use on our Freestyle MTB's are designed with strength and performance in mind. Starting with our frames, we use thicker walled butted tubing than what you'd find on a frame designed for cross country use. Each component is also purpose-built...for example, cranks with stronger spindles and arms, bombproof wheels, and stiffer forks.

Each Haro Freestyle MTB frame has lower profile geometry than a typical mountain bike. This is really important for jumping and for doing tricks. It's hard to pull off a tailwhip, can-can, or a table top if your frame is so tall you can't finesse it underneath you. And when you botch a landing off of a jump, you'll be grateful for the ultra-low top tube height. These bikes also have a shorter overall wheelbase for the same reason: maneuverability. With shorter geometry in both height and length, our dirt jump/park bikes are nimble, quick, and highly maneuverable.

And if all of these reasons weren't enough to convince you that these bikes are the real deal, our pro riders Greg Watts, Phil Sundbaum, and Eric Porter all had a hand in the development of each bike...just to ensure we're on the right track.

As the brand behind the world's first and finest BMX bikes, we know a thing or two about making bikes bred for doubles, gaps, rhythm sections, rail slides, and skateparks. A lot of the same stuff that goes into making the world's best BMX bikes is going into making our Freestyle MTB series bikes. Get a bike built for the job and backed by over 30 years of history.







Steel Reserve 1.3

4130 double-butted cromoly frame with internal bearing headset and horizontal drop-outs

Nothing rides quite like steel does! The Steel Reserve frame was designed specifically for urban, dirt jump, and park riding with the input of our pro athletes Greg Watts, Eric Porter, and Phil Sundbaum. It's like a BMX bike with big wheels.

Marzocchi Dirt Jumper 2 80mm travel fork with 20mm thru-axle

The Dirt Jumper is the ultimate fork to use on a bike like the Steel Reserve. It's short travel and as stiff as board. The Dirt Jumper 2 features a 20mm thru-axle for increased stiffness. Adjustable rebound and preload.

BMX-style 10-spline 4130 cromoly tubular cranks with 12T rear cog

These are the same cromoly bombproof cranks and 25×12 microdrive gearing we use on many of our BMX bikes. 10-spline spindle for more precise fitment and engagement.

Hayes MX4 mechanical disc brake; rear only

Powerful stoppers from the original disc brake manufacturer. Easy to set up and maintain. You'll never go back to v-brakes again!

Kenda K-Rad 2.3 tires

The Kenda K-Rad is a favorite tire among BMX riders because they roll fast and hook up nicely. Now they are available for bigger wheels and are quickly gaining popularity with the MTB crowd.











Steel Reserve 1.2

4130 double-butted cromoly frame with internal bearing headset and horizontal drop-outs

Nothing rides quite like steel does! The Steel Reserve frame was designed specifically for urban, dirt jump, and park riding with the input of our pro athletes Greg Watts, Eric Porter, and Phil Sundbaum. It's like a BMX bike with big wheels.

SR Suntour Duro DJ-D 80mm travel fork with adjustable preload and rebound

Dirt jump specific fork from SR Suntour that offers up all the bells and whistles without leaving you broke. Simple spring internals with hydraulic rebound damping. Beefy stanchions for added strength.

BMX-style 8-spline 4130 cromoly tubular cranks with 12T rear cog
These are the same bombproof cranks we use on our BMX bikes. We also took the liberty of "borrowing" the 25 x 12 microdrive gearing from the BMX guys as well.

Tektro IO mechanical disc brake; rear only

Once you try disc brakes, you'll never go back to v-brakes. The Tektro IO mechanical disc brake system is reliable and doesn't lose stopping power in wet, muddy, or dusty conditions.

Kenda K-Rad 2.3 tires

The Kenda K-Rad is a favorite tire among BMX riders because they roll fast and hook up nicely. Now they are available for bigger wheels and are quickly gaining popularity with the MTB crowd.







Steel Reserve 1.1

4130 double-butted cromoly frame with horizontal drop outs

Nothing rides quite like steel does! The Steel Reserve frame was designed specifically for urban, dirt jump, and park riding with the input of our pro athletes Greg Watts, Eric Porter, and Phil Sundbaum. It's like a BMX bike with big wheels.

Cromoly rigid dirt jump specific fork, suspension corrected

Keeping it simple and efficient, we chose a heat-treated, full-cromoly rigid fork for the Steel Reserve 1.1. This is the same fork we use on many of our BMX bikes, but lengthened the legs to accommodate the bigger wheel size.

BMX-style 8-spline 4130 cromoly tubular cranks with 12T rear cog

These are the same bombproof cranks we use on our BMX bikes. We also took the liberty of "borrowing" the 25×12 microdrive gearing from the BMX guys as well.

Tektro IO mechanical disc brakes

Once you try disc brakes, you'll never go back to v-brakes. The Tektro IO mechanical disc brake system is reliable and doesn't lose stopping power in wet, muddy, or dusty conditions.

Kenda K-Rad 2.3 tires

The Kenda K-Rad is a favorite tire among BMX riders because they roll fast and hook up nicely. Now they are available for bigger wheels and are quickly gaining popularity with the MTB crowd.







Thread Expert

7005 aluminum dirt jump/urban-specific frame with e.thirteen designed adjustable drop outs.

Lightweight aluminum frame designed specifically for urban, dirt jump, and park riding with the input of Harosponsored pro athletes Greg Watts, Eric Porter, and Phil Sundbaum. We used e.thirteen's proven sliding drop out system to keep your rear wheel exactly where you want it.

Marzocchi Dirt Jumper 3 80mm suspension fork

The Dirt Jumper is the only fork to use on a bike like the Thread. It's short travel and as stiff as a board. The Dirt Jumper 3 is simple...no adjustment knobs, no air pressure, no fuss. Just ride!

SRAM X7 rear derailleur with SRAM X.5 8-speed shifter

Same great crisp shifting as the more expensive SRAM shifting systems, less the big price tag. X.5 is a durable workhorse system; lightest in its class. Right hand shifter only.

Hayes MX4 mechanical disc brakes

Powerful stoppers from the original disc brake manufacturer. Easy to set up and maintain. You'll never go back to v-brakes again!

Kenda K-Rad 2.3 tires

The Kenda K-Rad is a favorite tire among BMX riders because they roll fast and hook up nicely. Now they are available for bigger wheels and are quickly gaining popularity with the MTB crowd.







Thread Comp

7005 aluminum dirt jump/urban-specific frame with e.thirteen designed adjustable drop outs.

Lightweight aluminum frame designed specifically for urban, dirt jump, and park riding with the input of Harosponsored pro athletes Greg Watts, Eric Porter, and Phil Sundbaum. We used e.thirteen's proven sliding drop out system to keep your rear wheel exactly where you want it.

SR Suntour Duro DJ-D 80mm travel fork with adjustable preload and rebound

Dirt jump specific fork from SR Suntour that offers up all the bells and whistles without leaving you broke. Simple spring internals with hydraulic rebound damping. Beefy stanchions for added strength.

SRAM X.5 rear derailleur with SRAM X.5 8-speed trigger shifter

SRAM's exclusive I-to-I shifting actuation delivers superior shifting performance! Lightweight yet incredibly durable, X.5 shifters are the choice of many World Cup downhillers. Right hand shifter only.

Tektro IO mechanical disc brakes

Once you try disc brakes, you'll never go back to v-brakes. The Tektro IO mechanical disc brake system is reliable and doesn't lose stopping power in wet, muddy, or dusty conditions.

Kenda K-Rad 2.3 tires

The Kenda K-Rad is a favorite tire among BMX riders because they roll fast and hook up nicely. Now they are available for bigger wheels and are quickly gaining popularity with the MTB crowd.







Porter Pro

$606\,I$ aluminum slopestyle-specific $120\,\text{mm}$ travel frame with sealed bearing pivot

All-new Eric Porter signature slopestyle specific frame with 120mm of rear travel. With a slacker head angle, lower overall profile, and beefier tubing, the Porter is the perfect weapon to attack dirt jump, slalom, slopestyle, and park riding.

Custom Fox 36 Float RC2 fork with 100mm of travel, 20mm thru-axle

Eric Porter rides a custom 36 Float RC2 with the travel reduced to 100mm for slopestyle. Fox made a special production run of these forks just for us to use on Porter's signature bikes. Air sprung with adjustable compression and rebound.

Fox Float R rear shock

Awesome performance from the leader in suspension. Lightweight air shock provides greater adjustability and lower overall weight. Rebound adjust lets you tune ride quality.

Shimano XT Shadow rear derailleur with Shimano Deore RapidFire Plus 9-speed shifter

The XT Shadow rear derailleur sits more inboard towards the frame, tucked away from roots, rocks, and other trail obstacles that tend to be fond of beating your rear derailleur to a pulp. Right hand shifter only.

Hayes Stroker Ryde hydraulic disc brakes

At 407 grams including hardware and rotor, the Stroker Ryde is one of the lightest brakes in its class. Awesome overall performer from the first name in disc brakes.











Porter Expert

6061 aluminum slopestyle-specific 120mm travel frame with sealed bearing pivot

All-new Eric Porter signature slopestyle specific frame with 120mm of rear travel. With a slacker head angle, lower overall profile, and beefier tubing, the Porter is the perfect weapon to attack dirt jump, slalom, slopestyle, and park riding.

RockShox Argyle R 100mm travel fork with 20mm Maxle Lite

The Argyle R features magnesium lower legs and an alloy steer tube for weight savings. RockShox's exclusive Maxle Lite 20mm thru-axle offers superior stiffness and performance.

Fox Van R rear shock

Based on the higher-end DHX series, the Van R combines performance and durability into a more affordable package. Coil spring means no air pressure to fuss with...just get on your bike and ride!

SRAM X9 rear derailleur with SRAM X.7 9-speed shifter

The SRAM name means ultra-crisp and precise shifting. Light and durable. The X9 rear derailleur is based on the same technology as the X0 but made more affordably. Right hand shifter only.

Shimano M445 hydraulic disc brakes

Excellent performance in a new hydraulic disc brake system that's affordably priced. Low-profile, streamlined lever design looks great and performs flawlessly. Uses non-corrosive, environmentally-friendly mineral oil.







Porter Comp

6061 aluminum slopestyle-specific 120mm travel frame with sealed bearing pivot

All-new Eric Porter signature slopestyle specific frame with 120mm of rear travel. With a slacker head angle, lower overall profile, and beefier tubing, the Porter is the perfect weapon to attack dirt jump, slalom, slopestyle, and park riding.

Marzocchi Dirt Jumper 2 100mm travel fork with 20mm thru-axle

Marzocchi has set the standard for all others to follow when it comes to making forks for aggressive riding like slopestyle. Buttery smooth travel just as you'd expect from Marzocchi. 20mm thru-axle for greater stiffness and control.

Marzocchi Coil R rear shock

No-nonsense coil shock from Marzocchi designed specifically for riders who are seeking out a simple rear suspension solution. Coil spring with adjustable rebound keep it easy to maintain and set up.

SRAM X.7 rear derailleur with SRAM X.5 9-speed trigger shifter

The SRAM X.7 rear derailleur utilizes the same technology as the much higher end X0 model but in a less expensive package. 9-speed X.5 shifter for a wide gear range. Right hand shifter only.

Promax Hornet hydraulic disc brakes

The Hornet dual piston hydraulic disc brake system features a patented anti-impact and anti-leak master cylinder design for added durability and reliability. Awesome braking performance at a great value.











Objekt

All-new high tensile steel Haro fixed gear frame, barspin compatible

Brand new for 2011, the Objekt fixie frame is simple and durable. We tweaked the geometry to make this frame barspin compatible. Wide tire compatible.

BMX-inspired steel fork

A BMX-inspired fork is a must for a BMX-style fixie. It completes the look and it's built to stand up to the abuse. Plenty of clearance for wider tires.

Tubular cromoly BMX-style cranks with a 44-tooth chainring

Cromoly BMX cranks for strength and style. Versatile 44-tooth gearing works well with a variety of different rear cog combos.

Cromoly 70mm riser bars

Tall riser bars are the ticket on fixies built to trick on. A taller rise bar clears the top tube for barspins.

Weinmann ZAC 19 double wall rims laced to alloy hubs, flip-flop rear

A flip-flop rear hub adds versatility to your ride. Switching from fixed gear to freewheel is as easy as removing the rear wheel and turning it around. Double wall rims for added strength.







Projekt

All-new high tensile steel Haro fixed gear frame

Brand new for 2011, the Projekt fixie frame is simple and durable. If it's not fixed, it's broke!

Alloy cranks with 44-tooth chainring

Alloy crank material for lower overall bike weight. Versatile 44-tooth gearing works well with a variety of different rear cog combos.

600 mm wide steel riser bar with 30 mm rise

No-frills steel handlebar with just enough rise for a more comfortable ride. 600mm width can be left as-is or cut down to the desired narrower width.

Kenda K193 700c \times 28c tires

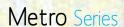
Smooth rolling with great traction, the Kenda K193 is a great all-around performer. You can't beat Kenda's quality!

Weinmann alloy rims laced to alloy hubs, flip-flop rear

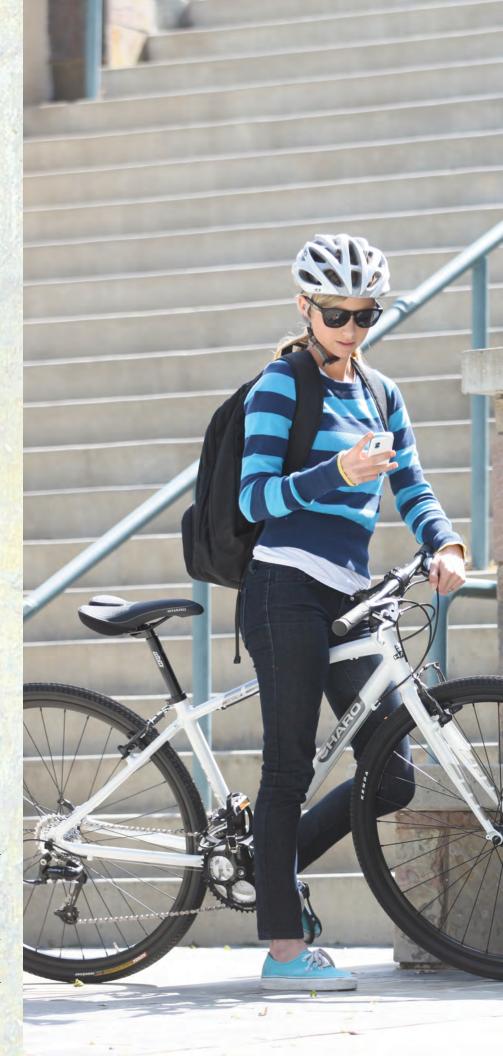
A flip-flop rear hub adds versatility to your ride. Switching from fixed gear to freewheel is as easy as removing the rear wheel and turning it around.







If you like the speed and agility of a road bike but can do without the uncomfortable, hunched-over body position that traditional road bikes throw you into, look no further than our Metro series hybrid bikes. It's like having the best of both worlds. Flat handlebars with a 6-degree rise stem encourage a more upright body position while narrow, high-pressure 700c tires and a rigid fork encourage a brisk, spirited ride. A Metro bike is the perfect companion for your daily commute, weekend tour, fitness routine, or your weekly social ride.







Roscoe

All-new Metro series lightweight aluminum hybrid frame

Our lightweight 6061 aluminum Metro frame was designed specifically for commuters and fitness riders. The frame geometry isn't quite as steep as a road bike, making it supremely comfortable.

Rigid fork with alloy legs

A rigid fork harnesses all of the power you put onto the pedals and transfers it into forward motion! Alloy fork legs help keep overall bike weight down.

Shimano Deore rear derailleur with Shimano Alivio M405 8-speed shifters

The Deore 8-speed drivetrain works flawlessly together for effortless, precise shifting. Durable, reliable, and efficient, Deore is the workhorse of the family.

Ritchey Girder XC rims

Bombproof double wall rim from the brand you can trust. You'll appreciate the durability after you ride through a few potholes and your rims come out dent-free.

Kenda Kwiktrax 38c tires

The Kwiktrax 38c tires are just wide enough to be comfortable, but narrow enough to zip along the city streets. Reflective sidewalls for improved visibility in low light conditions.

Amos

All-new Metro series lightweight aluminum hybrid frame

Our lightweight 6061 aluminum Metro frame was designed specifically for commuters and fitness riders. The frame geometry isn't quite as steep as a road bike, making it supremely comfortable.

Rigid fork with alloy legs

A rigid fork harnesses all of the power you put onto the pedals and transfers it into forward motion! Alloy fork legs help keep overall bike weight down.

Shimano 8-speed EZ Fire shifters with a Shimano Alivio rear derailleur Just as the name implies, EZ Fire shifters are simple and effective. Paired up with an Alivio rear derailleur, you've got a winning shifting combo.

FSA 8TTT A-Drive cranks with 48/38/28 chainrings

FSA pioneered exceptional crank design and performance! Alloy crank arms decrease overall bike weight. 48/38/28 tooth chainrings for versatility in a variety of riding conditions.

Kenda Kwiktrax 38c tires

The Kwiktrax 38c tires are just wide enough to be comfortable, but narrow enough to zip along the city streets. Reflective sidewalls for improved visibility in low light conditions.



Callahan

All-new Metro series lightweight aluminum hybrid frame

Our lightweight 6061 aluminum Metro frame was designed specifically for commuters and fitness riders. The frame geometry isn't quite as steep as a road bike, making it supremely comfortable.

Rigid steel fork

A rigid fork harnesses all of the power you put onto the pedals and transfers it into forward motion!

Shimano 7-speed EZ Fire shifters with a Shimano Tourney rear derailleur

Just as the name implies, EZ Fire shifters are simple and easy to use. A Shimano Tourney rear derailleur gives you years of worry-free reliability and performance.

Weinmann alloy rims laced to alloy hubs

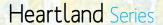
Alloy means lightweight and rust free so not only will your wheelset look great for years, it also contributes to lower overall bike weight.

Kenda Kwiktrax 38c tires

The Kwiktrax 38c tires are just wide enough to be comfortable, but narrow enough to zip along the city streets. Reflective sidewalls for improved visibility in low light conditions.







Smooth paved bike paths. Bumpy gravel trails. Beach boardwalks. Quiet neighborhood streets. Bustling boulevards. So many places to ride, so few bikes that are capable of taking you through them on a cloud of comfort. With suspension forks, ultra-plush seats and grips, and a relaxed, upright riding position, our Heartland series bikes are designed for people craving a comfortable ride, some fresh air, and a two-wheeled time out on the pavement or the dirt. Life is better on a bike.







Heartland Sport

All-new lightweight 6061 aluminum comfort frame with exclusive UpRight back-saving riding position that's easy on your body

A relaxed seat angle combined with a taller head tube makes this one comfortable bike! We specially engineered the Heartland to be easy on your back by putting you in a more upright riding position

SR Suntour CR-750 50mm travel fork

Backed by over 20 years of fork making experience, SR Suntour delivers exceptional value and great performance. 50mm of travel is just enough to smooth out the bumps.

Shimano Altus rear derailleur powered by Shimano EZ Fire 7-speed shifters Just as the name implies, EZ Fire shifters are simple and easy to use. A Shimano Altus rear derailleur gives you years of worry-free performance.

Haro Comfort Plush saddle

Dedicated to finding the most comfortable saddle, we tested many materials and shapes before finding the right combination for our Comfort Plush saddles.

Alloy adjustable comfort stem

Alloy means lightweight and rust free. Adjustable means you dial in your riding position to perfection. Why be hunched over your handlebars if you don't need to be?







Heartland

All-new lightweight 6061 aluminum comfort frame with exclusive UpRight back-saving riding position that's easy on your body

A relaxed seat angle combined with a taller head tube makes this one comfortable bike! We specially engineered the Heartland to be easy on your back by putting you in a more upright riding position

SR Suntour CR-750 50mm travel fork

Backed by over 20 years of fork making experience, SR Suntour delivers exceptional value and great performance. 50mm of travel is just enough to smooth out the bumps.

Shimano Tourney rear derailleur with Shimano Revo 7-speed twist shifter; right hand only

Shimano Revo twist shifters make shifting easy! The Shimano name has become synonymous with reliability and precision. Single right hand shifter keeps your ride simple.

Haro Comfort Extra Plush saddle

Dedicated to finding the most comfortable saddle, we tested many materials and shapes before finding the right combination for our Comfort Plush saddles.

Alloy adjustable comfort stem

Alloy means lightweight and rust free. Adjustable means you dial in your riding position to perfection. Why be hunched over your handlebars if you don't need to be?







Go-fast comfort! High rise bars with an adjustable stem put you in a more upright riding position so you can comfortably see the world around you as you speed along the pavement on narrower, high-pressure 700c tires. Our Express series comfort hybrids are the bicycle equivalent to a luxury sedan automobile: supremely comfortable at any speed...positively exhilarating at higher speeds. A perfect choice for fitness, commuting, or just simply cruising through your neighborhood.







Express Deluxe

All-new lightweight 6061 aluminum hybrid frame with exclusive UpRight back-saving riding position that's easy on your body

A relaxed seat angle combined with a taller head tube makes this one comfortable hybrid! We engineered the Express to be easy on your back by putting you in a more upright riding position.

SR Suntour 50mm travel fork

Backed by over 20 years of fork making experience, SR Suntour delivers exceptional value and great performance. 50mm of travel is just enough to smooth out the bumps.

Shimano Acera rear derailleur powered by Shimano EZ Fire 8-speed shifters

Just as the name implies, EZ Fire shifters are simple and effective. The Acera rear derailleur is not only reliable, it yields clean, precise shifting performance.

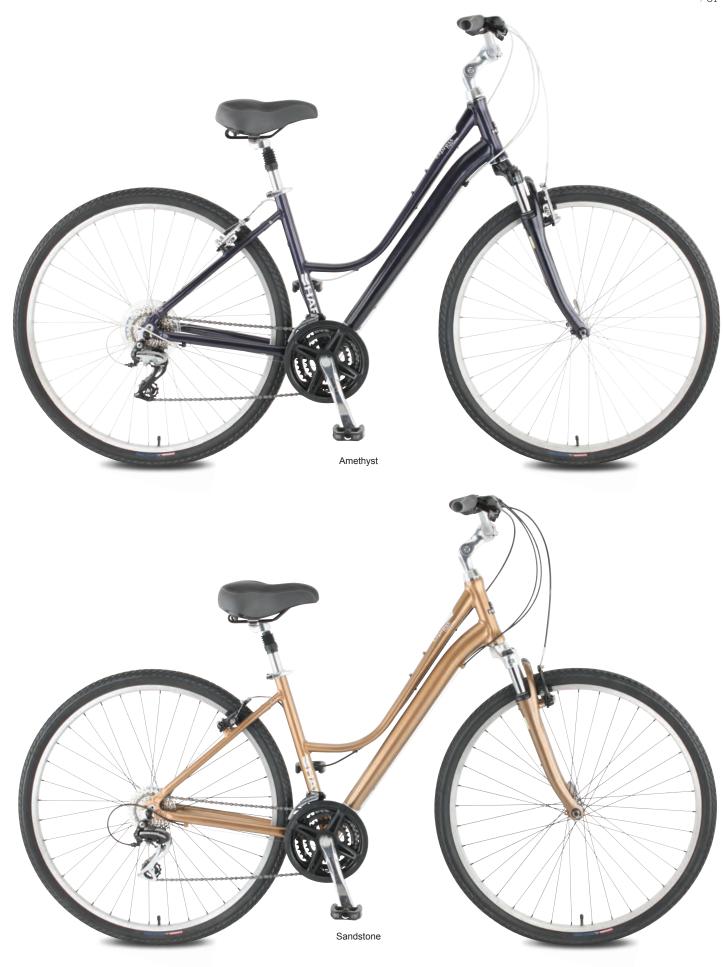
Haro Comfort Plush saddle with suspension seatpost

Dedicated to finding the most comfortable saddle, we tested many materials and shapes before finding the right combination for our Comfort Plush saddles. A suspension seatpost makes it even more comfortable.

Alloy adjustable comfort stem

Alloy means lightweight and rust free. Adjustable means you dial in your riding position to perfection. Why be hunched over your handlebars if you don't need to be?







Express Sport

All-new lightweight 6061 aluminum hybrid frame with exclusive UpRight back-saving riding position that's easy on your body

A relaxed seat angle combined with a taller head tube makes this one comfortable hybrid! We engineered the Express to be easy on your back by putting you in a more upright riding position.

Rigid front fork for improved efficiency

A rigid front fork is simple, efficient, and cost effective. Suspension forks are a nice upgrade, but if you ride exclusively on smooth pavement, you may not need one.

Shimano Altus rear derailleur powered by Shimano EZ Fire 7-speed shifters

Just as the name implies, EZ Fire shifters are simple and easy to use. A Shimano Altus rear derailleur gives you years of worry-free performance.

Haro Comfort Plush saddle

Dedicated to finding the most comfortable saddle, we tested many materials and shapes before finding the right combination for our Comfort Plush saddles.

Alloy adjustable comfort stem

Alloy means lightweight and rust free. Adjustable means you dial in your riding position to perfection. Why be hunched over your handlebars if you don't need to be?





Tradewind Series

There's just something about a beach cruiser that puts you in a different frame of mind the moment you settle into the saddle and pedal away. You really don't need to live anywhere near a beach to experience the magic of a cruiser. A trip to go grab a cup of coffee, a cruise down your local bike path, or your commute to work or school become relaxing little vacations from life's rat race. Come on, put on your shorts and flip flops and grab a Tradewind beach cruiser...it's time to hang loose.







Tradewind Marley

Rust-free 6061 aluminum Tradewind cruiser frame

Our Tradewind beach cruiser frames are made out of high-quality aluminum frames which means they are lightweight and rust-free. Think weight isn't important for a beach cruiser? Think again...lugging a heavy steel frame up a set of stairs or onto your car's bike rack is a real drag!

Shimano singlespeed coaster brake rear hub

One gear and only one gear with a coaster brake. Simple and easy just like a beach cruiser should be. You can't beat Shimano's reliability.

Custom-made Tradewind seats and grips

The ultra-comfy seats and grips we put on our Tradewinds are custom made just for us to perfectly match each bike. Don't settle for basic black!

Kenda Cruiser tires

We chose a tire that was designed specifically for beach cruisers...they roll smoothly down the boardwalk yet they have just enough traction in case you venture off the pavement.

Rust-free, lightweight aluminum rims





Tradewind Shae

Rust-free 6061 aluminum Tradewind cruiser frame

Our Tradewind beach cruiser frames are made out of high-quality aluminum frames which means they are lightweight and rust-free. Think weight isn't important for a beach cruiser? Think again...lugging a heavy steel frame up a set of stairs or onto your car's bike rack is a real drag!

Shimano singlespeed coaster brake rear hub

One gear and only one gear with a coaster brake. Simple and easy just like a beach cruiser should be. You can't beat Shimano's reliability.

Custom-made Tradewind seats and grips

The ultra-comfy seats and grips we put on our Tradewinds are custom made just for us to perfectly match each bike. Don't settle for basic black!

Kenda Cruiser tires

We chose a tire that was designed specifically for beach cruisers...they roll smoothly down the boardwalk yet they have just enough traction in case you venture off the pavement.

Rust-free, lightweight aluminum rims





Tradewind Ollie

Rust-free 6061 aluminum Tradewind cruiser frame

Our Tradewind beach cruiser frames are made out of high-quality aluminum frames which means they are lightweight and rust-free. Think weight isn't important for a beach cruiser? Think again...lugging a heavy steel frame up a set of stairs or onto your car's bike rack is a real drag!

Shimano 3-speed internal geared coaster brake rear hub

We give you three gears because the world isn't flat...you'll appreciate some lower gearing on any hills you may encounter. A coaster brake keeps your ride simple. You can't beat Shimano's reliability!

Custom-made Tradewind seats and grips

The ultra-comfy seats and grips we put on our Tradewinds are custom made just for us to perfectly match each bike. Don't settle for basic black!

Kenda Cruiser tires

We chose a tire that was designed specifically for beach cruisers...they roll smoothly down the boardwalk yet they have just enough traction in case you venture off the pavement.

Rust-free, lightweight aluminum rims





Tradewind Judith

Rust-free 6061 aluminum Tradewind cruiser frame

Our Tradewind beach cruiser frames are made out of high-quality aluminum frames which means they are lightweight and rust-free. Think weight isn't important for a beach cruiser? Think again...lugging a heavy steel frame up a set of stairs or onto your car's bike rack is a real drag!

Shimano 3-speed internal geared coaster brake rear hub

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Kenda Cruiser tires

We chose a tire that was designed specifically for beach cruisers...they roll smoothly down the boardwalk yet they have just enough traction in case you venture off the pavement.

Rust-free, lightweight aluminum rims



74 / Sizes Specifications

Frame Components	Flightline Expert	Flightline Comp	Flightline Trail
Frame	Flightline K7 aluminum front triangle w/ 6061 T6 butted SS/CS, integrated HT and smooth welds	Flightline 6061 T6 butted aluminum with integrated HT and smooth welds	Flightline 6061 T6 aluminum with integrated HT and smooth welds
Sizes	15", 17", 19"	15", 17", 19"	15", 17", 19"
Frame Shock	N/A	N/A	N/A
Colors	Cyan	SG Black	SG Ano White
Fork	RockShox Tora TK, 100mm travel w/ turnkey lockout	RockShox Dart 2; 100mm travel w/ preload adjust & turnkey lockout	RST Gila Pro, 100mm travel w/ turnkey lockout
Headset	Tange integrated sealed bearing	Tange integrated sealed bearing	Tange integrated sealed bearing
Drivetrain Components			
Crank Set	Shimano M521 Octalink 22/32/44	Truvativ E400 22/32/44	Truvativ E400 22/32/44
Bottom Bracket	Shimano Octalink sealed cartridge	FSA sealed cartridge	FSA sealed cartridge
Derailleur front	Shimano Deore	Shimano Deore	Shimano Alivio
Derailleur rear	Shimano XTR Shadow	Shimano XT Shadow	Shimano SLX
Freewheel	SRAM PG-950 9-speed 11-34	SRAM PG-950 9-speed 11-34	Shimano HG-50 9-speed 11-32
Chain	Shimano HG-53	Shimano HG-53	Shimano HG-53
Pedals	ATB caged; nylon body w/ steel cage	ATB caged; nylon body w/ steel cage	ATB caged; nylon body w/ steel cage
Control Center Components			
Handlebar	Alloy riser bar, 30mm rise, 620mm width, 31.8mm clamp	Alloy riser bar, 30mm rise, 620mm width, 31.8mm clamp	Alloy riser bar, 30mm rise, 620mm width, 31.8mm clamp
Stem	Pivit alloy clamp on, 7 degree rise, 31.8mm clamp	Pivit alloy clamp on, 7 degree rise, 31.8mm clamp	Pivit alloy clamp on, 7 degree rise, 31.8mm clamp
Grips	WTB Moto grip	WTB Moto grip	WTB Moto grip
Derailleur Shifter	Shimano Deore Rapid Fire Plus 9-speed	Shimano Deore Rapid Fire Plus 9-speed	Shimano Alivio Rapid Fire Plus 9-speed
Saddle	WTB Rocket V Comp	Haro Race	Haro Race
Seat Post	Ritchey Comp V2 30.9mm	Pivit alloy micro adjust 30.9mm	Pivit alloy micro adjust 30.9mm
Seat Post clamp	Pivit alloy QR	Pivit alloy QR	Pivit alloy QR
Wheelset Components —			
Hubset	Pivit disc alloy 9-speed cassette, 32h QR	Pivit disc alloy 9-speed cassette, 32h QR	Pivit disc alloy 9-speed cassette, 32h QR
Rim	WTB SX24 32h	WTB SX24 32h	Weinmann XTB-24
Spokes	Stainless steel 14g	Stainless steel 14g	Stainless steel 14g
Tires	Kenda Kadre 2.1	Kenda Kadre 2.1	Kenda Kadre 2.1
Brake Components			
Brakes	Shimano BRM-665 SLX hydraulic disc w/ 6" rotors	Shimano BRM-445 hydraulic disc w/ 6" rotors	Shimano BRM-445 hydraulic disc w/ 6" rotors
Brake Lever	Shimano BRM-665 SLX	Shimano BRM-445	Shimano BRM-445

Frame Components	Flightline One	Flightline 24	Flightline 20
Frame	Flightline 6061 T6 oversize aluminum	Flightline 6061 T6 aluminum w/ lower profile	Flightline 6061 T6 aluminum w/ lower profile
Sizes	Mens: 15", 17", 19", 21" Step-Thru: 14", 17"	12"	10"
Frame Shock	N/A	N/A	N/A
Colors	Mens: Gloss Black, SG Ano White Step-Thru: Amethyst, Snowflake	Gloss Black, Pumpkin, Bluebell	Royal Blue, Race Red, Petal Pink
Fork	Haro 30mm travel	SR Suntour M3000AL 50mm travel	SR Suntour M3000AL 50mm travel
Headset	Aheadset OS	Aheadset OS	Aheadset OS
Drivetrain Components			
Crank Set	Forged alloy 3pc 24/34/42	Forged alloy 3pc 24/34/42	Forged alloy w/ 40t chainring and double guard
Bottom Bracket	Sealed cartridge	Sealed cartridge	Sealed cartridge
Derailleur front	Shimano M190A	Shimano Tourney	N/A
Derailleur rear	Shimano Altus	Shimano Tourney	Shimano Tourney
Freewheel	Sunrace 7-speed freewheel 13-28	Shimano 7-speed freewheel 14-28	Shimano 6 speed freewheel 14-28
Chain	KMC Z50	Shimano UG-51	Shimano UG-51
Pedals	Nylon ATB	Nylon ATB	Nylon ATB
Control Center Components			
Handlebar	Pivit riser bar; 30mm rise; 630mm width; 31.8mm clamp	Pivit riser bar; 30mm rise; 560mm width	Pivit riser bar; 30mm rise; 560mm width
Stem	Pivit alloy clamp on, 7 degree rise; 31.8mm clamp	Pivit alloy clamp on, 15 degree rise	Pivit alloy clamp on, 15 degree rise
Grips	Dual density	Dual density	Dual density
Derailleur Shifter	Shimano EF-50 EZ Fire 7-speed	Shimano Revo 7-speed	Shimano Revo 6-Speed
Saddle	Haro Sport	Haro Junior	Haro Junior
Seat Post	Pivit alloy 30.9mm	Pivit alloy 27.2mm	Pivit alloy 27.2mm
Seat Post clamp	Pivit alloy QR	Pivit alloy QR	Pivit alloy QR
Wheelset Components ——			
Hubset	Pivit alloy 7-speed freewheel, 36h QR	Pivit alloy nutted 7-speed freewheel, 32h	Pivit alloy nutted 6-speed freewheel, 32h
Rim	Weinmann CN-520 36h	Weinmann CN-520 32h	Weinmann CN-520 32h
Spokes	Stainless steel 14g	Stainless steel 14g	Stainless steel 14g
Tires	Kenda Kadre 2.1	Kenda 831A 2.1"	Kenda 831A 2.1"
Brake Components —			
Brakes	Alloy direct pull w/ linear spring	Promax direct pull w/ linear spring	Promax direct pull w/ linear spring
Brake Lever	Shimano EF-50	Promax V-Brake	Promax V-Brake

Flightline Sport	Flightline Three	Flightline Two
Flightline 6061 T6 aluminum with integrated HT and smooth welds	Flightline 6061 T6 oversize aluminum	Flightline 6061 T6 oversize aluminum
15", 17", 19"	15", 17", 19"	15", 17", 19", 21"
N/A	N/A	N/A
SG Black, Guinness	Race Red, SG Acid Green	Gloss Royal Blue, Gloss Black
SR Suntour XCM-HLO; 100mm travel w/ preload adjust & lockout	SR Suntour XCT V2; 100mm travel w/ preload adjust	SR Suntour M3000AL 70mm travel
Tange integrated sealed bearing	Aheadset OS	Aheadset OS
Shimano FC-M311 22/32/44	Shimano M131 24/34/42	Shimano M131 24/34/42
Sealed cartridge	Sealed cartridge	Sealed cartridge
Shimano M190A	Shimano M190A	Shimano M190A
Shimano Alivio	Shimano Acera	Shimano Acera
Shimano HG-40 8-speed 11-32	Shimano HG-40 8-speed 11-32	Shimano HG-40 8-speed 11-32
KMC Z72	Shimano HG-50	Shimano HG-50
ATB caged; nylon body w/ steel cage	ATB caged; nylon body w/ steel cage	Nylon ATB
Pivit riser bar, 30mm rise, 620mm width, 31.8mm clamp	Pivit riser bar; 30mm rise; 630mm width; 31.8mm clamp	Pivit riser bar; 30mm rise; 630mm width; 31.8mm clamp
Pivit alloy clamp on, 7 degree rise, 31.8mm clamp	Pivit alloy clamp on, 7 degree rise; 31.8mm clamp	Pivit alloy clamp on, 7 degree rise; 31.8mm clamp
WTB Moto grip	Dual density	Dual density
Shimano Alivio Rapid Fire Plus 8-speed	Shimano EF-50 EZ Fire 8-speed	Shimano EF-50 EZ Fire 8-speed
Haro Race	Haro Sport	Haro Sport
Pivit alloy micro adjust 30.9mm	Pivit alloy micro adjust 30.9mm	Pivit alloy micro adjust 30.9mm
Pivit alloy QR	Pivit alloy QR	Pivit alloy QR
Pivit disc alloy 8-speed cassette, 32h QR	Pivit disc alloy 8-speed cassette, 32h QR	Pivit alloy 8-speed cassette; 32h QR
Weinmann Zac-19 32h double wall	Weinmann Zac-19 32h double wall	Weinmann CN-520 32h
Stainless steel 14g	Stainless steel 14g	Stainless steel 14g
Kenda Kadre 2.1	Kenda Kadre 2.1	Kenda Kadre 2.1
Promax Hornet hydraulic disc w/ 6" rotors	Promax DSK-320 mechanical disc w/ 6" rotors	Tektro direct pull w/ linear spring
Promax Hornet	Shimano EF-50	Shimano EF-50

Shift R5	Shift R3	Shift R1
6061 air formed aluminum w/ 120mm rear wheel travel	6061 air formed aluminum w/ 120mm rear wheel travel	6061 air formed aluminum w/ 120mm rear wheel travel
16", 18", 20"	16", 18", 20"	16", 18", 20"
RockShox Ario 2.1	RockShox Bar 2.1	X-Fusion Coil w/rebound adjust
Race Red	SG Royal Blue	SG Black
RockShox Recon Silver 120mm travel w/ turnkey lockout	RockShox Tora TK Coil 120mm travel w/ turnkey lockout	Suntour XCR-LO 120mm travel w/ preload adjust and lockout
Ritchey LB+	Ritchey LB+	Ritchey LB+
Truvativ Firex 3.0 GXP 22/32/44	Truvativ IsoFlow 3.0 Power Spline 22/32/44	Shimano FC-M311 22/32/44
Truvativ Giga X-Pipe	Truvativ Power Spline	Sealed cartridge
Shimano Deore	SRAM X5 Low clamp	Shimano M410
Shimano XT Shadow	SRAM X7 medium cage	Shimano Alivio
Shimano HG-50 9-speed 11-32	SRAM PG-950 9-speed 11-34	Shimano HG-40 8-speed 11-32
Shimano HG-53	Shimano HG-53	KMC Z72
Shimano M505 clipless	ATB caged; nylon body w/ steel cage	ATB caged; nylon body w/ steel cage
Ritchey Mountain Comp riser bar, 35mm rise, 660mm width, 31.8mm clamp	Pivit alloy riser bar, 30mm rise, 620mm width, 31.8mm clamp	Pivit alloy riser bar, 30mm rise, 620mm width, 31.8mm clamp
Ritchey Comp mtn; 6 degree; 31.8mm clamp	Pivit alloy clamp on, 7 degree rise, 31.8mm clamp	Pivit alloy clamp on, 7 degree rise, 31.8mm clamp
WTB Moto Grip	WTB Moto Grip	WTB Moto Grip
Shimano Deore Rapid Fire Plus 9-speed	SRAM X5 9-speed	Shimano EF-50 EZ Fire 8-speed
WTB Rocket V Comp	Haro Race	Haro Sport
Ritchey Comp V2 30.9mm	Pivit alloy micro adjust 30.9mm	Pivit alloy micro adjust 30.9mm
Pivit alloy QR	Pivit alloy QR	Pivit alloy QR
Shimano M475 alloy disc 9-speed cassette, 32h QR	Pivit disc alloy 9-speed cassette, 32h QR	Pivit disc alloy 8-speed cassette, 32h QR
Weinmann Disc Bull 32h	Weinmann Disc Bull 32h	Weinmann Zac-19 32h double wall
Stainless steel 14g	Stainless steel 14g	Stainless steel 14g
		Kanada Kadas O.A
Kenda Small Block Eight 2.1"	Kenda Kadre 2.1	Kenda Kadre 2.1
Kenda Small Block Eight 2.1" Shimano BRM-445 hydraulic disc w/ 6" rotors	Hayes MX4 mechanical disc w/ 160mm rotors	Renda Radre ∠. I Tektro IO mechanical disc w/ 6" rotors

76 / Sizes Specifications

Frame Components	Mary XC Expert	Mary XC Comp	Flightline 29 Expert
Frame	4130 crmo steel	4130 crmo steel	Flightline 29" 6061 T6 oversize aluminum
Sizes	16", 18", 20"	16", 18", 20"	16", 18", 20"
Frame Shock	N/A	N/A	N/A
Colors	Really Red	Black n Blue	SG Black
Fork	Marzocchi 44 TST2 80mm travel w/ 15mm dropouts		RockShox Recon Solo Air 29", 80mm travel w/ TK lockout
	•	RST M29 Comp, 80mm travel w/ TNL lockout	
Headset	Ritchey LB	Ritchey LB	Ritchey LB+
Drivetrain Components			
Crank Set	Truvativ Firex 3.0 GXP 22/32/44	Shimano M430 Alivio 22/32/44	Truvativ Firex 3.0 GXP 22/32/44
Bottom Bracket	Truvativ Giga X-Pipe	Shimano sealed cartridge	Truvativ Giga X-Pipe
Derailleur front	Shimano Deore	Shimano Alivio	SRAM X7 low clamp
Derailleur rear	Shimano XT Shadow	Shimano Deore	SRAM X9 medium cage
Freewheel	Shimano HG-61 9-speed 12-36	Shimano HG-50 9-speed 11-32	Shimano HG-61 9-speed 11-34
Chain	Shimano HG-50	Shimano HG-53	Shimano HG-53
Pedals	ATB caged; nylon body w/ steel cage	ATB caged; nylon body w/ steel cage	N/A
Control Center Components			
Handlebar	Ritchey Comp 10 degree bar; 660mm width; 31.8mm clamp	Pivit alloy riser bar, 30mm rise, 620mm width, 31.8mm clamp	Ritchey Mtn Comp riser, 35mm rise, 670mm width, 31.8mm clamp
Stem	Ritchey Mountain 4-Axis; 6 degree rise; 31.8mm clamp	Ritchey Mountain Comp, 6 degree rise, 31.8mm clamp	Ritchey Pro 4-Axis
Grips	WTB Moto Grip	WTB Moto Grip	WTB Moto grip
Derailleur Shifter	Shimano Deore Rapid Fire Plus 9-speed	Shimano Alivio Rapid Fire Plus 9-speed	SRAM SL X9 Trigger 9-speed
Saddle	WTB Rocket V Comp	Haro Race	WTB Rocket V Comp
Seat Post	Ritchey Comp V2, 31.6mm	Pivit alloy micro adjust 31.6mm	Ritchey Comp V2 30.9mmmm
Seat Post clamp	Pivit Race Lite	Pivit alloy QR	Pivit alloy QR
Wheelset Components			
Hubset	Pivit disc alloy 9-speed cassette, 32h QR	Pivit disc alloy 9-speed cassette, 32h QR	Pivit disc alloy 9-speed cassette, 32h QR
Rim	WTB Laser Disc Trail 29", 32h	WTB Speed Disc 29", 32h	WTB Laser Disc 29", 32h
Spokes	Stainless steel 14g	Stainless steel 14g	Stainless steel 14g
Tires	Kenda Nevegal 29", 2.20	Kenda Nevegal 29", 2.20	Kenda Nevegal 29", 2.20
Brake Components			
Brakes	Shimano BRM-445 hydraulic disc w/ 6" rotors	Tektro IO mechanical disc w/ 6" rotors	Avid Elixir 5 hydraulic disc w/ 6" rotors
Brake Lever	Shimano BRM-445	Avid FR5	Avid Elixir 5

Frame Components	Steel Reserve 1.1	Thread Expert	Thread Comp
Frame	4130 double butted crmo w/ BMX inspired horizontal dropouts	7005 oversize aluminum w/ e*thirteen designed adjustable dropout	7005 oversize aluminum w/ e*thirteen designed adjustable dropout
Sizes	13" Short , 13" Long	13" Short , 13" Long	13" Short , 13" Long
Frame Shock	N/A	N/A	N/A
Colors	Crimson	Guinness	Smurfy Blue
Fork	Suspension corrected 4130 crmo rigid heat treated	Marzocchi Dirt Jumper 3 80mm travel	SR Suntour Duro DJD 80mm travel
Headset	Aheadset OS	Ritchey Logic V2	Ritchey Logic V2
Drivetrain Components			
Crank Set	4130 tubular crmo, 8 spline interface w/ Haro alloy 25T chainwheel	Truvativ Ruktion 1.0 w/ 34t chainring	Truvativ E400 w/ 33t chainring
Bottom Bracket	European sealed cartridge	Truvativ Howitzer	Truvativ Powerspline
Derailleur front	N/A	e*thirteen chain guide	e*thirteen chain guide
Derailleur rear	N/A	SRAM X7 medium cage	SRAM X5 medium cage
Freewheel	12t cog	SRAM PG-850 8-speed 11-32	SRAM PG-850 8-speed 11-32
Chain	KMC Z410	KMC Z72	KMC Z72
Pedals	Pivit platform w/ replaceable pins	Pivit platform w/ replaceable pins	Pivit platform w/ replaceable pins
Control Center Components			
Handlebar	Pivit riser bar; 30mm rise; 630mm width; 31.8mm clamp	Pivit alloy riser bar, 30mm rise, 620mm width, 31.8mm clamp	Pivit alloy riser bar, 30mm rise, 620 width, 31.8 clamp
Stem	Pivit alloy clamp On, 10 degree rise; 31.8mm clamp	Syncros FR; 50mm extension; 31.8mm clamp	Pivit alloy clamp On, 10 degree rise, 31.8mm clamp
Grips	Pivit BMX w/ flange	Pivit Lock On	Pivit Lock On
Derailleur Shifter	N/A	SRAM X5 8-speed (rear only)	SRAM X5 8-speed (rear only)
Saddle	Haro Slim BMX w/ 8mm crmo rails	Haro Slim BMX w/ 8mm crmo rails	Haro Slim BMX w/ 8mm crmo rails
Seat Post	Pivit steel 2-bolt 25.4mm	Pivit alloy micro adjust 30.9mm	Pivit alloy micro adjust 30.9mm
Seat Post clamp	Pivit alloy QR	Pivit alloy QR	Pivit alloy QR
Wheelset Components			
Hubset	Pivit disc alloy nutted single speed cassette, 36h	Pivit disc alloy 8-speed cassette, 32h QR	Pivit disc alloy 8-speed cassette, 32h QR
Rim	Weinmann Zac-19 36h double wall	Alienation PBR (front), Alienation Black Sheep (rear) 36h	Weinmann Zac-19 36h double wall
Spokes	Stainless steel 14g	Stainless steel 14g	Stainless steel 14g
Tires	Kenda K-Rad 2.3"	Kenda K-Rad 2.3"	Kenda K-Rad 2.3"
Brake Components			
Brakes	Tektro IO Mechanical disc w/ 6" Rotor (rear only)	Hayes MX4 mechanical disc with 6" rotors	Tektro IO mechanical disc w/ 6" rotors
Brake Lever	Tektro alloy	Avid FR5	Tektro alloy

Flightline 29 Comp	Steel Reserve 1.3	Steel Reserve 1.2
Flightline 29" 6061 T6 oversize aluminum	4130 double butted crmo w/ BMX inspired horizontal	4130 double butted crmo w/ BMX inspired horizontal
r lightuirle 29 0001 10 oversize aluminum	dropouts and integrated HT	dropouts and integrated HT
16", 18", 20"	13" Short , 13" Long	13" Short , 13" Long
N/A	N/A	N/A
SG Ano White w/ Grey	SG Black	Galaxy
RockShox Tora TK Coil 29", 80mm travel w/ Turnkey lockout	Marzocchi Dirt Jumper 2 80mm travel w/ 20mm thru axle	SR Suntour Duro DJD 80mm travel
Ritchey LB+	Ritchey Logic Comp drop in internal	Ritchey Logic Comp drop in internal
Truvativ E400 22/32/44	4130 tubular crmo, 10 spline interface w/ Haro alloy 25T chainwheel	4130 tubular crmo, 8 spline interface w/ Haro alloy 25T chainwheel
FSA sealed cartridge	European sealed cartridge	European sealed cartridge
Shimano Alivio	N/A	N/A
SRAM X7 medium cage	N/A	N/A
SRAM PG-950 9-speed 11-34	12t cog	12t cog
Shimano HG-53	KMC Z410	KMC Z410
Shimano M505 clipless	Pivit CNC Featherlite w/ replaceable pins	Pivit platform w/ replaceable pins
Pivit alloy riser bar, 20mm rise, 620mm width, 31.8mm clamp	Syncros FR 38 riser bar, 38mm rise, 700mm width, 31.8mm clamp	Pivit alloy riser bar, 30mm rise, 620mm width, 31.8mm clamp
Pivit alloy clamp on, 7 degree rise, 31.8mm clamp	Syncros FR; 50mm extension; 31.8mm clamp	Pivit alloy clamp on, 10 degree rise, 31.8mm clamp
WTB Moto grip	SDG Lock On	Pivit BMX w/ flange
	05 0 2001 011	· ···· z···· · · · · · · · · · · · · ·
0.1	N/A	N/A
SRAM X5 9-speed Haro Race	N/A Haro Pivotal BMX	N/A Haro Pivotal BMX
SRAM X5 9-speed Haro Race	1 ** 1	
SRAM X5 9-speed	Haro Pivotal BMX	Haro Pivotal BMX
SRAM X5 9-speed Haro Race Pivit alloy micro adjust 30.9mm	Haro Pivotal BMX Pivotal 25.4mm X 115mm Pivit alloy QR	Haro Pivotal BMX Pivotal 25.4mm X 115mm Pivit alloy QR
SRAM X5 9-speed Haro Race Pivit alloy micro adjust 30.9mm Pivit alloy QR	Haro Pivotal BMX Pivotal 25.4mm X 115mm	Haro Pivotal BMX Pivotal 25.4mm X 115mm Pivit alloy QR
SRAM X5 9-speed Haro Race Pivit alloy micro adjust 30.9mm Pivit alloy QR Pivit disc alloy 9-speed cassette, 32h QR	Haro Pivotal BMX Pivotal 25.4mm X 115mm Pivit alloy QR Pivit disc alloy nutted single speed cassette, 36h w/ 20mm thru axle front	Haro Pivotal BMX Pivotal 25.4mm X 115mm Pivit alloy QR Pivit disc alloy nutted single speed cassette, 36h
SRAM X5 9-speed Haro Race Pivit alloy micro adjust 30.9mm Pivit alloy QR Pivit disc alloy 9-speed cassette, 32h QR WTB Speed Disc 29", 32h	Haro Pivotal BMX Pivotal 25.4mm X 115mm Pivit alloy QR Pivit disc alloy nutted single speed cassette, 36h w/ 20mm thru axle front Alienation Black Sheep 36h	Haro Pivotal BMX Pivotal 25.4mm X 115mm Pivit alloy QR Pivit disc alloy nutted single speed cassette, 36h Alienation PBR (front), Alienation Black Sheep (rear) 36h
SRAM X5 9-speed Haro Race Pivit alloy micro adjust 30.9mm Pivit alloy QR Pivit disc alloy 9-speed cassette, 32h QR WTB Speed Disc 29", 32h Stainless steel 14g	Haro Pivotal BMX Pivotal 25.4mm X 115mm Pivit alloy QR Pivit disc alloy nutted single speed cassette, 36h w/ 20mm thru axle front Alienation Black Sheep 36h Stainless steel 14g	Haro Pivotal BMX Pivotal 25.4mm X 115mm Pivit alloy QR Pivit disc alloy nutted single speed cassette, 36h Alienation PBR (front), Alienation Black Sheep (rear) 36h Stainless steel 14g

Porter Pro	Porter Expert	Porter Comp
Eric Porter signature slopestyle specific bike, 6061 aluminum w 120mm rear wheel travel	Eric Porter signature slopestyle specific bike, 6061 aluminum w/ 120mm rear wheel travel	Eric Porter signature slopestyle specific bike, 6061 aluminum w/ 120mm rear wheel travel
15" Short , 15" Long	15" Short , 15" Long	15" Short , 15" Long
Fox Float R	Fox Van R	Marzocchi Coil R
SG Pumpkin	Verde Frost	Gloss Black
FOX Float 36 RC2 100mm travel w/ 20mm thru axle	Rock Shox Argyle 302 CL 100mm travel w/ 20mm thru axle	Marzocchi Dirt Jumper 2 100mm travel w/ 20mm thru axle
FSA Orbit XL2	FSA Orbit XL2	Ritchey LB+
Gravity Gap Mega EXO w/ 36t alloy chainring	Gravity Gap Mega EXO w/ 36t alloy chainring	Truvativ Ruktion 1.0 w/ 34t chainring
Gravity Mega EXO	Gravity Mega EXO	Truvativ Howitzer
Gravity chain guide	Gravity chain guide	Gravity chain guide
Shimano XT Shadow	SRAM X9 medium cage	SRAM X7 medium cage
Shimano HG-61 9-speed 11-28	SRAM PG-950 9-speed 11-34	SRAM PG-950 9-speed 11-34
Shimano HG-73	KMC Z72	KMC Z72
Pivit CNC Featherlite w/ replaceable pins	Pivit CNC Featherlite w/ replaceable pins	Pivit platform w/ replaceable pins
Gravity Maximus OS riser bar; 40mm rise; 710mm width; 31.8mm clamp	Pivit alloy riser bar, 30mm rise, 620mm width, 31.8mm clamp	Pivit alloy riser bar, 30mm rise, 620mm width, 31.8mm clamp
Gravity GAP; 50mm Reach; 31.8mm clamp	Syncros FR; 50mm extension; 31.8mm clamp	Pivit alloy clamp On, 10 degree rise, 31.8mm clamp
Gravity Lock On	Gravity Lock On	Gravity Lock On
Shimano Deore Rapid Fire Plus 9-speed (rear only)	SRAM X7 9-speed (rear only)	SRAM X5 9-speed (rear only)
SDG Patriot I-Beam	SDG Patriot I-Beam	SDG Patriot I-Beam
SDG I-Beam alloy micro adjust 30.9mm	SDG I-Beam alloy micro adjust 30.9mm	SDG I-Beam alloy micro adjust 30.9mm
Pivit alloy QR	Pivit alloy QR	Pivit alloy QR
Gravity disc alloy 9-speed cassette, 32h QR	Pivit disc alloy 9-speed cassette, 36h w/ 20mm thru axle front	Pivit disc alloy 9-speed cassette, 36h w/ 20mm thru axle front
Gravity double wall	Alienation PBR (front), Alienation Black Sheep (rear) 36h	Weinmann Zac-19 36h double wall
Gravity 14g	Stainless steel 14g	Stainless steel 14g
Kenda Nevegal 2.35 (front), Kenda Small Block Eight 2.3 (rear)	Kenda Nevegal 2.35 (front), Kenda Small Block Eight 2.3 (rear)	Kenda Nevegal 2.35 (front), Kenda Small Block Eight 2.3 (rear)
Hayes Stroker Ryde hydraulic disc w/ 6" rotors	Shimano BRM-445 hydraulic disc w/ 6" rotors	Promax Hornet hydraulic disc w/ 6" rotors
hayes Stroker Ryde Hydraulic disc w/ 6 Totors	Chimano Bran Tio Tryandano dioc W C Totolo	Tromax Florifot Hydradilo dioo W o Totolo

78 / Sizes Specifications

Frame Components	Objekt	Projekt	Roscoe
Frame	700c hi-ten fixed gear w/ horizontal dropouts	700c hi-ten fixed gear w/ horizontal dropouts	2011 Haro Metro 6061 T6 aluminum
Sizes	49cm, 53cm, 57cm	49cm, 53cm, 57cm	16", 18", 20", 22"
Frame Shock	N/A	N/A	N/A
Colors	Gloss White, New Lime	SG Black, Smurfy Blue	SG Ano White
Fork	700c full crmo, designed to accommodate bigger tires	700c full crmo, designed to accommodate bigger tires	700c alloy w/ crmo steer tube, V-brake mounts
Headset	Ritchey LB	Ritchey LB	FSA Drop In
Drivetrain Components			
Crank Set	4130 tubular crmo, 10 spline interface w/ 44T chainwheel	Forged alloy 3pc w/ 44t chainring	Truvativ ISO-Flow Road 48/36/26
Bottom Bracket	Sealed cartridge	Sealed cartridge	Truvativ sealed cartridge
Derailleur front	N/A	N/A	Shimano C051
Derailleur rear	N/A	N/A	Shimano Deore
Freewheel	16t cog w/ lock ring	16t cog w/ lock ring	SRAM PG-830 8-speed 11-28
Chain	KMC Z510-H	KMC Z410	Shimano HG-40
Pedals	Haro plastic BMX platform	Wellgo nylon body w/ alloy cage and toe clip	Wellgo nylon body w/ alloy cage and toe clip
Control Center Components			
Handlebar	One piece crmo bar/stem combo, 70mm rise	Pivit riser bar; 30mm rise; 600mm wide; 31.8mm clamp	Ritchey Mtn Flat OS, 600mm width; 31.8mm clam
Stem	Crmo clamp on, 7 degree rise, 31.8 clamp	Pivit alloy clamp on, 7 degree rise, 31.8 clamp	Pivit alloy clamp on, 7 degree rise, 31.8mm clamp
Grips	Haro BMX w/ flange	Haro BMX w/ flange	Dual density
Derailleur Shifter	N/A	N/A	Shimano M410 8-speed
Saddle	Haro Slim BMX w/ 8mm crmo Rails	Haro Slim BMX w/ 8mm crmo Rails	Haro Race
Seat Post	Steel 27.2mm	Steel 27.2mm	Alloy 27.2mm micro adjust
Seat Post clamp	Pivit alloy	Pivit alloy	Pivit alloy
'	1 IVIL alloy	1 Wit diloy	1 IVIC diloy
Wheelset Components Hubset	Alloy nutted single speed flip flop, 32h	Alloy nutted high flange single speed flip flop, 32h	Alloy 8-speed cassette, 32h QR
Rim	Weinmann Zac-19 double wall, 32h	Weinmann LP18, 32h	Ritchey Girder XC 32h
	*	Stainless steel 14q	Stainless steel 14q
Spokes Tires	Stainless steel 14g Kenda K935 700 x 40c	Kenda K193 700x28c	Kenda KwikTrax 700x38c
	NG1144 N333 1 VV X 4VC	Noriua IV 199 / UUAZUU	INGINIA INWINTIAN / UUNJUU
Brake Components			
Brakes	Tektro Dual Pivot Caliper	Tektro Dual Pivot Caliper	Shimano direct pull w/ linear spring
Brake Lever	Tektro alloy	Tektro alloy	Shimano alloy

Frame Components	Heartland	Express Deluxe	Express Sport
Frame	New 2011 Heartland design, 6061 aluminum	New 2011 Express design, 6061 aluminum	New 2011 Express design, 6061 aluminum
Sizes	Men's: 14", 17", 20" Step-Thru: 14", 17"	Men's: 14", 17", 20" Step-Thru: 14", 17"	Men's: 14", 17", 20" Step-Thru: 14", 17"
Frame Shock	N/A	N/A	N/A
Colors	Mens: Rubyism/Silver, Azure Blue/Silver Step-Thru: Rubyism/Silver, Sky Blue/White	Mens: Gloss Black, Sandstone Step-Thru: Sandstone, Amethyst	Mens: Really Red, Midnight Step Thru: Midnigl Pearl White
Fork	SR Suntour CR 26", 50mm travel	SR Suntour CR-750, 50mm travel	700c steel, V-brake mounts
Headset	1 1/8" threaded	1 1/8" threaded	1 1/8" threaded
Drivetrain Components			
Crank Set	Forged alloy 3pc w/ 42t chainring	Shimano M151 28/38/48	Forged alloy 3pc 24/34/42
Bottom Bracket	Sealed cartridge	Sealed cartridge	Sealed cartridge
Derailleur front	N/A	Shimano C051	Shimano M190A
Derailleur rear	Shimano Tourney	Shimano Acera	Shimano Altus
Freewheel	Sunrace 7-speed freewheel 14-28	Shimano HG-40 8-speed 11-32	Sunrace 7-speed freewheel 14-28
Chain	KMC Z50	Shimano HG-40	KMC Z50
Pedals	Wellgo comfort w/ kraton rubber inserts	Wellgo comfort w/ kraton rubber inserts	Wellgo comfort w/ kraton rubber inserts
Control Center Components			
Handlebar	Haro comfort, steel 80mm rise	Haro comfort, steel 80mm rise	Haro comfort, steel 80mm rise
Stem	Alloy adjustable height	Alloy adjustable height	Alloy adjustable height
Grips	Dual density	Dual density	Dual density
Derailleur Shifter	Shimano Revo 7-speed (rear only)	Shimano EF-51 EZ Fire 8-speed	Shimano EF-51 EZ Fire 7-speed
Saddle	Haro Comfort Plush w/ web spring base - men's & women's specific shapes	Haro Comfort Plush w/ web spring base - men's & women's specific shapes	Haro Comfort Plush w/ web spring base - men's & women's specific shapes
Seat Post	Steel 27.2mm	Alloy suspension 40mm travel, 27.2mm	Steel 27.2mm
Seat Post clamp	Alloy QR	Alloy QR	Alloy QR
Wheelset Components			
Hubset	Alloy 7-speed freewheel, 36h QR	Alloy 8-speed cassette, 36h QR	Alloy 8-speed cassette, 36h QR
Rim	Alex C1000 36h	Weinmann 519 w/ brushed sidewalls, 36h	Weinmann 519 w/ brushed sidewalls, 36h
Spokes	Stainless steel 14g	Stainless steel 14g	Stainless steel 14g
Tires	Kenda Keen 1.95"	Kenda Keen 700x45c	Kenda Keen 700x45c
Brake Components			
Brakes	Alloy direct pull w/ linear spring	Tektro direct pull w/ linear spring	Alloy direct pull w/ linear spring
Brake Lever	Tektro alloy	Shimano EF-51	Shimano EF-51

Heartland Sport

7		11041 114114 00011
2011 Haro Metro 6061 T6 aluminum	2011 Haro Metro 6061 T6 aluminum	New 2011 Heartland design, 6061 aluminum
16", 18", 20", 22"	16", 18", 20", 22"	Men's: 14", 17", 20" Step-Thru: 14", 17"
N/A	N/A	N/A
Really Red	SG Black, Royal Blue	Mens: Pearl/Royal, Grey/Pearl Step-Thru: Grey/Pearl, Pearl/Pink
700c alloy w/ crmo steer tube, V-brake mounts	700c steel, V-brake mounts	SR Suntour CR 26", 50mm travel
FSA Drop In	Aheadset OS	1 1/8" threaded
FSA 8TTT 28/38/48	Forged alloy 3pc 24/34/42	Forged alloy 3pc 24/34/42
Sealed cartridge	Sealed cartridge	Sealed cartridge
Shimano C051	Shimano C051	Shimano M190A
Shimano Alivio	Shimano Tourney	Shimano Altus
Shimano Altus 8-speed 11-30	Shimano Tourney 7-speed freewheel 14-28	Sunrace 7-speed freewheel 14-28
KMC Z72	KMC Z50	KMC Z50
Wellgo nylon body w/ alloy cage and toe clip	Wellqo nylon body w/ alloy cage and toe clip	· · · · · · · · · · · · · · · · · · ·
wellgo fiyloff body w/ alloy cage and toe clip	wellgo hylott body w/ alloy cage and loe clip	Wellgo comfort w/ kraton rubber inserts
Ritchey Mountain Flat OS bar, 600mm width; 31.8mm clamp	Pivit riser bar; 30mm rise; 630mm width; 31.8mm clamp	Haro comfort, steel 80mm rise
Pivit alloy clamp on, 7 degree, 31.8mm clamp	Pivit alloy clamp on, 7 degree, 31.8mm clamp	Alloy adjustable height
Dual density	Dual density	Dual density
Shimano EF-50 EZ Fire 8-speed	Shimano EF-51 EZ Fire 7-speed	Shimano EF-51 EZ Fire 7-speed
Haro Race	Haro Race	Haro Comfort Plush w/ web spring base - men's & women's specific shapes
Alloy 27.2mm micro adjust	Alloy 27.2mm micro adjust	Steel 27.2mm
Pivit alloy	Pivit alloy	Alloy QR
Alloy 8-speed cassette, 32h QR	Alloy 7-speed freewheel, 36h QR	Alloy 7-speed freewheel, 36h QR
Weinmann Zac-19 double wall, 32h	Weinmann AS23X, 36h	Alex C1000 36h
Stainless steel 14g	Stainless steel 14g	Stainless steel 14g
Kenda KwikTrax 700x38c	Kenda KwikTrax 700x38c	Kenda Keen 1.95"
Tektro direct pull w/ linear spring	Alloy direct pull w/ linear spring	Alloy direct pull w/ linear spring
Shimano EF-50	Shimano EF-50	Shimano EF-51

Callahan

Amos

6061 aluminum cruiser 17°, 15° Step-Thru 17°, 15° Step-Thru NA Marley, Closs Black, Rubyem Shae: Bluebell, Unemploymint, Bariana Bubblegman Judith: Peppy Pink, Light Denim, The New Black 26° cruiser 26° cruiser 1° threaded	Tradewind Shae/Marley	Tradewind Ollie/Judith
NA Marley: Gloss Black, Rubylsm Shae: Bluebell, Unemploymint, Banaria Bubblegum 26" cruiser 26" cruiser 21" threaded 21" threaded 25" cruiser 26" cruiser 27" cruiser 28" cruiser 28" cruiser 28" cruiser 29" cruiser 20" Shimano cog	6061 aluminum cruiser	6061 aluminum cruiser
Martey, Glass Black, Rubyism Shae: Bluebell, Unemploymint, Banara Bubblegum 20' cruiser 20' cruiser 21' threaded 1' threaded 1' threaded 1' threaded Forged alloy w/ 42t chainring Forged alloy w/ 42t chainring Sealed mechanism Sealed mechanism NA	17", 15" Step-Thru	17", 15" Step-Thru
Banara Bubblegum Judith: Peppy Pink, Light Denim, The New Black 26° cruiser 1° threaded 1° threadededeness 1° threadededeness 1° threadededeness 1° threadededeness 1° threadededeness 1°	N/A	N/A
1" threaded 1" threaded Forged alloy w/ 42t chainring Sealed mechanism Sealed mechanism N/A		Ollie: Black Friday, Sparkling Blue Judith: Peppy Pink, Light Denim, The New Black
Forged alloy w/ 42t chainring Sealed mechanism Sealed mechanism N/A	26" cruiser	26" cruiser
Sealed mechanism NA NA NA NA NIA NIA NIA NIA NIA Sti Shimano cog 20t Shimano cog KMC Z410 Wellgo comfort w/ kraton rubber inserts Wellgo comfort w/ kraton rubber inserts Wellgo comfort w/ kraton rubber inserts Haro cruiser Alloy cruiser Alloy cruiser Haro custom stitched cruiser NIA Haro custom stitched cruiser w/ springs Haro custom stitched cruiser w/ springs Haro custom stitched cruiser w/ springs Steel 27.2mm Steel 27.2mm Steel 27.2mm Alloy bolt style Steel 36h (front), Shimano single speed coaster brake 36h (rear) Weinmann alloy 36h Weinmann alloy 36h Weinmann alloy 36h Stainless steel 14g Haro cruiser 2.125" Shimano Coaster Brake (rear) Shimano Coaster Brake (rear)	1" threaded	1" threaded
N/A	Forged alloy w/ 42t chainring	Forged alloy w/ 42t chainring
N/A 18t Shimano cog 20t Shimano cog KMC Z410 Wellgo comfort w/ kraton rubber inserts Wellgo comfort w/ kraton rubber inserts Wellgo comfort w/ kraton rubber inserts Haro cruiser Alloy cruiser Haro custom stitched cruiser Haro custom stitched cruiser w/ Shimano Nexus Revo 3-Speed Haro custom stitched cruiser w/ springs Haro custom stitched cruiser w/ springs Steel 27.2mm Steel 27.2mm Steel 27.2mm Steel 27.2mm Steel 36h (front), Shimano single speed coaster brake 36h (rear) Weinmann alloy 36h Stainless steel 14g Haro cruiser 2.125" Shimano Coaster Brake (rear) Shimano Coaster Brake (rear)	Sealed mechanism	Sealed mechanism
18t Shimano cog KMC Z410 Weltgo comfort w/ kraton rubber inserts Weltgo comfort w/ kraton rubber inserts Weltgo comfort w/ kraton rubber inserts Haro cruiser Alloy cruiser Alloy cruiser Haro custom stitched cruiser Haro custom stitched cruiser N/A Shimano Nexus Revo 3-Speed Haro custom stitched cruiser w/ springs Haro custom stitched cruiser w/ springs Steel 27.2mm Alloy bolt style Steel 27.2mm Alloy bolt style Steel 36h (front), Shimano single speed coaster brake 36h (rear) Weinmann alloy 36h Veinmann alloy 36h Stainless steel 14g Haro cruiser 2.125' Shimano Coaster Brake (rear) Shimano Coaster Brake (rear)	N/A	N/A
KMC Z410 Wellgo comfort w/ kraton rubber inserts Wellgo comfort w/ kraton rubber inserts Haro cruiser Alloy cruiser Haro custom stitched cruiser N/A Shimano Nexus Revo 3-Speed Haro custom stitched cruiser w/ springs Haro custom stitched cruiser w/ springs Haro custom stitched cruiser w/ springs Steel 27.2mm Steel 27.2mm Alloy bolt style Steel 36h (front), Shimano single speed coaster brake 36h (rear) Weinmann alloy 36h Weinmann alloy 36h Stainless steel 14g Haro cruiser 2.125* Haro cruiser 2.125* Shimano Coaster Brake (rear) Shimano Coaster Brake (rear) Shimano Coaster Brake (rear) Shimano Coaster Brake (rear)	N/A	N/A
Wellgo comfort w/ kraton rubber inserts Wellgo comfort w/ kraton rubber inserts Haro cruiser Alloy cruiser Alloy cruiser Haro custom stitched cruiser N/A Shimano Nexus Revo 3-Speed Haro custom stitched cruiser w/ springs Haro custom stitched cruiser w/ springs Steel 27.2mm Steel 27.2mm Steel 27.2mm Alloy bolt style Steel 36h (front), Shimano single speed coaster brake 36h (rear) Weimann alloy 36h Stainless steel 14g Haro cruiser 2.125" Shimano Coaster Brake (rear) Shimano Coaster Brake (rear)	18t Shimano cog	20t Shimano cog
Haro cruiser Alloy cruiser Alloy cruiser Alloy cruiser Haro custom stitched cruiser Haro custom stitched cruiser N/A Shimano Nexus Revo 3-Speed Haro custom stitched cruiser w/ springs Haro custom stitched cruiser w/ springs Steel 27.2mm Steel 27.2mm Steel 27.2mm Alloy bolt style Alloy bolt style Steel 36h (front), Shimano 3-speed coaster brake 36h (rear) Steel 36h (rear) Weinmann alloy 36h Weinmann alloy 36h Stainless steel 14g Haro cruiser 2.125" Haro cruiser 2.125" Shimano Coaster Brake (rear) Shimano Coaster Brake (rear)	KMC Z410	KMC Z410
Alloy cruiser Haro custom stitched cruiser N/A Shimano Nexus Revo 3-Speed Haro custom stitched cruiser w/ springs Haro custom stitched cruiser w/ springs Steel 27.2mm Steel 27.2mm Alloy bolt style Alloy bolt style Steel 36h (front), Shimano single speed coaster brake 36h (rear) Weinmann alloy 36h Weinmann alloy 36h Stainless steel 14g Haro cruiser 2.125" Alloy coaster Brake (rear) Shimano Coaster Brake (rear)	Wellgo comfort w/ kraton rubber inserts	Wellgo comfort w/ kraton rubber inserts
Alloy cruiser Haro custom stitched cruiser N/A Shimano Nexus Revo 3-Speed Haro custom stitched cruiser w/ springs Haro custom stitched cruiser w/ springs Steel 27.2mm Steel 27.2mm Alloy bolt style Alloy bolt style Steel 36h (front), Shimano single speed coaster brake 36h (rear) Weinmann alloy 36h Weinmann alloy 36h Stainless steel 14g Haro cruiser 2.125" Alloy coaster Brake (rear) Shimano Coaster Brake (rear)		
Haro custom stitched cruiser N/A Shimano Nexus Revo 3-Speed Haro custom stitched cruiser w/ springs Haro custom stitched cruiser w/ springs Steel 27.2mm Steel 27.2mm Alloy bolt style Steel 36h (front), Shimano single speed coaster brake 36h (rear) Weinmann alloy 36h Stainless steel 14g Haro cruiser 2.125" Haro cruiser 2.125" Haro cruiser Brake (rear) Shimano Coaster Brake (rear)	Haro cruiser	Haro cruiser
N/A Shimano Nexus Revo 3-Speed Haro custom stitched cruiser w/ springs Steel 27.2mm Alloy bolt style Steel 36h (front), Shimano single speed coaster brake 36h (rear) Weinmann alloy 36h Stainless steel 14g Haro cruiser 2.125" Shimano Coaster Brake (rear) Shimano Coaster Brake (rear) Shimano Coaster Brake (rear)	Alloy cruiser	Alloy cruiser
Haro custom stitched cruiser w/ springs Steel 27.2mm Alloy bolt style Steel 36h (front), Shimano single speed coaster brake 36h (rear) Weinmann alloy 36h Stainless steel 14g Haro cruiser 2.125" Shimano Coaster Brake (rear) Haro custom stitched cruiser w/ springs Steel 27.2mm Alloy bolt style Steel 36h (front), Shimano 3-speed coaster brake 36h (rear) Weinmann alloy 36h Stainless steel 14g Haro cruiser 2.125" Shimano Coaster Brake (rear)	Haro custom stitched cruiser	Haro custom stitched cruiser
Steel 27.2mm Alloy bolt style Alloy bolt style Steel 36h (front), Shimano single speed coaster brake 36h (rear) Weinmann alloy 36h Weinmann alloy 36h Stainless steel 14g Haro cruiser 2.125" Shimano Coaster Brake (rear) Shimano Coaster Brake (rear) Steel 27.2mm Alloy bolt style Steel 36h (front), Shimano 3-speed coaster brake 36h (rear) Weinmann alloy 36h Weinmann alloy 36h Stainless steel 14g Haro cruiser 2.125" Shimano Coaster Brake (rear)	N/A	Shimano Nexus Revo 3-Speed
Alloy bolt style Steel 36h (front), Shimano single speed coaster brake 36h (rear) Weinmann alloy 36h Stainless steel 14g Haro cruiser 2.125" Shimano Coaster Brake (rear) Alloy bolt style Steel 36h (front), Shimano 3-speed coaster brake 36h (rear) Weinmann alloy 36h Weinmann alloy 36h Stainless steel 14g Haro cruiser 2.125" Shimano Coaster Brake (rear)	Haro custom stitched cruiser w/ springs	Haro custom stitched cruiser w/ springs
Alloy bolt style Steel 36h (front), Shimano single speed coaster brake 36h (rear) Weinmann alloy 36h Stainless steel 14g Haro cruiser 2.125" Shimano Coaster Brake (rear) Alloy bolt style Steel 36h (front), Shimano 3-speed coaster brake 36h (rear) Weinmann alloy 36h Weinmann alloy 36h Stainless steel 14g Haro cruiser 2.125" Shimano Coaster Brake (rear)		
Steel 36h (front), Shimano single speed coaster brake 36h (rear) Weinmann alloy 36h Stainless steel 14g Haro cruiser 2.125" Shimano Coaster Brake (rear) Steel 36h (front), Shimano 3-speed coaster brake 36h (rear) Weinmann alloy 36h Stainless steel 14g Haro cruiser 2.125" Shimano Coaster Brake (rear)		
coaster brake 36h (rear) Weinmann alloy 36h Weinmann alloy 36h Stainless steel 14g Haro cruiser 2.125" Shimano Coaster Brake (rear) Shimano Coaster Brake (rear)	Alloy bolt style	Alloy bolt style
coaster brake 36h (rear) Weinmann alloy 36h Weinmann alloy 36h Stainless steel 14g Haro cruiser 2.125" Shimano Coaster Brake (rear) Shimano Coaster Brake (rear)		
Stainless steel 14g Haro cruiser 2.125" Haro cruiser 2.125" Shimano Coaster Brake (rear) Shimano Coaster Brake (rear)	Steel 36h (front), Shimano single speed coaster brake 36h (rear)	Steel 36h (front), Shimano 3-speed coaster brake 36h (rear)
Haro cruiser 2.125" Haro cruiser 2.125" Shimano Coaster Brake (rear) Shimano Coaster Brake (rear)	Weinmann alloy 36h	Weinmann alloy 36h
Shimano Coaster Brake (rear) Shimano Coaster Brake (rear)	Stainless steel 14g	Stainless steel 14g
	Haro cruiser 2.125"	Haro cruiser 2.125"
N/A N/A	Shimano Coaster Brake (rear)	Shimano Coaster Brake (rear)
19/1	N/A	N/A

80 / Specs Geometry

Size	Head Angle	Seat Angle		(Effective)	Cont	Tube (C-T)	tline Tra	nstay		leight	\//ha	el Base	Ctone	d Over	
			20.6	524	14.0	355	16.7	425		295	39.3	998	26.8	d Over 682	
	ep Thru 71	73							11.6						
	ep Thru 71	73	22.2	565	17.0	430	16.7	425	11.6	295	40.8	1037	27.2	690	
15"	71	73	21.6	550	15.0	381	16.7	425	11.6	295	41.0	1043	26.9	684	
17"	71	73	22.4	568	17.0	432	16.7	425	11.6	295	42.0	1067	28.1	715	
19"	71	73	23.2	590	19.0	483	16.7	425	11.6	295	42.0	1067	29.8	758	
21"	71	72	23.6	600	21.0	533	16.7	425	11.6	295	42.5	1079	30.8	784	
Flightli	ne 24 71	74	20.5	521	12.0	305	16.7	425	10.6	270	39.4	1000	25.2	641	
Flightli	ne 20 70	71	18.8	479	14.3	363	14.3	363	9.8	250	35.0	888	21.9	557	
Fligh	ntline 29" Com		29" Ехре	ert											
Size	Head Angle	Seat Angle	Top Tube	(Effective)	Seat	Tube (C-T)	Chai	instay	BB H	łeight	Whee	el Base	Stand	d Over	
16"	72	73	23.0	585	16.0	405	17.6	447	12.2	310	41.7	1059	30.8	783	
16"	72	73	23.8	604	16.0	405	18.1	460	12.4	315	43.0	1092	28.3	720	
18"	72	73	24.0	610	18.0	460	18.1	460	12.4	315	43.2	1098	29.4	746	
20"	72	72	24.6	625	20.0	510	18.1	460	12.4	315	43.6	1107	30.4	772	
	/ XC Comp, Ma	-													
Size	Head Angle Seat Angle		Top Tube (Effective)			Seat Tube (C-T)		Chainstay		BB Height		Wheel Base		Stand Over	
16"	72	73	23.0	585	16.0	405	17.6	447	12.2	310	41.7	1059	30.8	783	
18"	72	73	23.6	600	18.0	460	17.6	447	12.2	310	42.3	1074	31.8	809	
20"	72	72.5	24.6	625	20.0	510	17.6	447	12.2	310	43.0	1094	33.0	839	
Mary g	eometry based on 8	0mm travel fork or	suspension c	orrected fork.											
	R1, R3, R5	Coot Angle	Ton Tuk-	(Effortise)	0	Tubo (C T)	Oh-:	inctov	יחת	loight	\A/L	N Page	01	d Over	
Size	Head Angle	Seat Angle		(Effective)		Tube (C-T)		instay		leight		el Base		d Over	
16"	70	73	21.8	555	16.0	405	16.9	430	12.5	318	41.4	1053	29.8	758	
18"	71	73	23.0	585	18.0	460	16.9	430	12.5	318	42.2	1074	30.8	784	
20" Shift a	71 eometry based on 12	73 20 travel fork	23.8	605	20.0	510	16.9	430	12.5	318	43.0	1094	31.5	801	
			46 6	41 -	10										
Stee Size	I Reserve 1.1, Head Angle	, Steel Reser Seat Angle	•	teel Resei (Effective)		Tube (C-T)	Chai	instay	BB H	leight	Whee	el Base	Stand	d Over	
Short	69.5	71.5	22.8	580	13.0	330	15.5	395	12.5	318	40.8	1036	29.5	749	
Long	69.5 Reserve geometry ba	71.5	23.3	593	13.0	330	15.5	395	12.5	318	41.3	1049	29.5	749	
	ead Comp, Thr	•	Tan Tuba	(Effective)		Tubo (C T)	Ohai	in the control of the	DD I	la:alak	\\/h a .	al Dage	Ctons	d Oues	
Size	Head Angle	Seat Angle		(Effective)	Seat	Tube (C-T)		instay		leight		el Base		d Over	
Size Short	Head Angle 69.3	Seat Angle 70	22.8	580	Seat 13.0	330	15.5	395	12.5	318	40.8	1036	29.5	749	
Size Short Long	Head Angle	Seat Angle 70 70	22.8 23.3	580 593	Seat 13.0 13.0	. ,		•		•					
Size Short Long Thread	Head Angle 69.3 69.3	Seat Angle 70 70 80mm travel fork	22.8 23.3 or suspension	580 593	Seat 13.0 13.0	330	15.5	395	12.5	318	40.8	1036	29.5	749	
Size Short Long Thread	Head Angle 69.3 69.3 d geometry based on	Seat Angle 70 70 80mm travel fork	22.8 23.3 or suspension orter Pro	580 593	Seat 13.0 13.0	330	15.5 15.5	395	12.5 12.5	318	40.8 41.3	1036	29.5 29.5	749	
Size Short Long Thread	Head Angle 69.3 69.3 d geometry based on	Seat Angle 70 70 80mm travel fork	22.8 23.3 or suspension orter Pro	580 593 corrected fork	Seat 13.0 13.0	330 330	15.5 15.5	395 395	12.5 12.5	318 318	40.8 41.3	1036 1049	29.5 29.5	749 749	
Size Short Long Thread Port Size	Head Angle 69.3 69.3 d geometry based on er Comp, Port Head Angle	Seat Angle 70 70 80mm travel fork er Expert, Pe	22.8 23.3 or suspension orter Pro Top Tube	580 593 corrected fork	Seat 13.0 13.0 Seat	330 330 Tube (C-T)	15.5 15.5 Chai	395 395 instay	12.5 12.5 BB H	318 318	40.8 41.3 Whee	1036 1049 el Base	29.5 29.5 Stand	749 749 d Over	
Size Short Long Thread Port Size Short Long	Head Angle 69.3 69.3 d geometry based on er Comp, Port Head Angle 67	Seat Angle 70 70 80mm travel fork of the Expert, Pe Seat Angle 73.5 73.5	22.8 23.3 or suspension orter Pro Top Tube 224 23.3	580 593 corrected fork (Effective) 570	Seat 13.0 13.0 Seat 16.4	330 330 Tube (C-T) 417.4	15.5 15.5 Chair 17.0	395 395 instay 431.6	12.5 12.5 BB H	318 318 Height 330	40.8 41.3 Whee 43.4	1036 1049 el Base 1102.8	29.5 29.5 Stand 30.0	749 749 d Over 762	
Size Short Long Thread Port Size Short Long Porter	Head Angle 69.3 69.3 d geometry based on er Comp, Port Head Angle 67 67	Seat Angle 70 70 80mm travel fork of the seat Angle 73.5 73.5 ed on 100mm travel	22.8 23.3 or suspension orter Pro Top Tube 224 23.3 el fork	580 593 corrected fork (Effective) 570 593	Seat 13.0 13.0 Seat 16.4	330 330 Tube (C-T) 417.4	15.5 15.5 Chair 17.0 17.0	395 395 instay 431.6 431.6	12.5 12.5 BB H 13.0 13.0	318 318 Height 330 330	40.8 41.3 Whee 43.4	1036 1049 el Base 1102.8	29.5 29.5 Stand 30.0	749 749 d Over 762	
Size Short Long Thread Port Size Short Long Porter Obje Size	Head Angle 69.3 69.3 d geometry based on er Comp, Port Head Angle 67 67 frame geometry base kt, Projekt Head Angle	Seat Angle 70 70 80mm travel fork er Expert, Po Seat Angle 73.5 ed on 100mm travel Seat Angle	22.8 23.3 or suspension Top Tube 224 23.3 el fork	580 593 corrected fork (Effective) 570 593	Seat 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0	330 330 Tube (C-T) 417.4 417.4	15.5 15.5 Chair 17.0 17.0	395 395 instay 431.6 431.6	12.5 12.5 13.0 13.0 13.0	318 318 Height 330 330	40.8 41.3 Whee 43.4 44.5	1036 1049 el Base 1102.8 1129.5	29.5 29.5 Stanc 30.0 30.0	749 749 d Over 762 762	
Size Short Long Thread Port Size Short Long Porter	Head Angle 69.3 69.3 d geometry based on er Comp, Port Head Angle 67 67 frame geometry base kt, Projekt	Seat Angle 70 70 80mm travel fork er Expert, Po Seat Angle 73.5 ed on 100mm trave Seat Angle To 74.5	22.8 23.3 or suspension Top Tube 224 23.3 el fork pp Tube (Effec 23.4	580 593 corrected fork (Effective) 570 593	Seat 13.0 13.0 13.0 Seat 16.4 16.4 Seat Tube (C 19.3	330 330 Tube (C-T) 417.4 417.4	15.5 15.5 Chair 17.0 17.0	395 395 instay 431.6 431.6 ght Wheel Base 415	12.5 12.5 BB H 13.0 13.0	318 318 Height 330 330	40.8 41.3 Whee 43.4 44.5	1036 1049 el Base 1102.8 1129.5	29.5 29.5 Stand 30.0 30.0	749 749 d Over 762 763	
Size Short Long Thread Port Size Short Long Porter Obje Size	Head Angle 69.3 69.3 d geometry based on er Comp, Port Head Angle 67 67 frame geometry base kt, Projekt Head Angle	Seat Angle 70 70 80mm travel fork er Expert, Po Seat Angle 73.5 ed on 100mm travel Seat Angle	22.8 23.3 or suspension Top Tube 224 23.3 el fork	580 593 corrected fork (Effective) 570 593	Seat 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0	330 330 Tube (C-T) 417.4 417.4	15.5 15.5 Chair 17.0 17.0	395 395 instay 431.6 431.6 431.6	12.5 12.5 13.0 13.0 13.0	318 318 Height 330 330	40.8 41.3 Whee 43.4 44.5	1036 1049 el Base 1102.8 1129.5	29.5 29.5 Stanc 30.0 30.0	749 749 d Over 762 762	
Size Short Long Thread Port Size Short Long Porter Obje Size 49cm	Head Angle 69.3 69.3 d geometry based on er Comp, Port Head Angle 67 67 frame geometry base kt, Projekt Head Angle 70.5	Seat Angle 70 70 80mm travel fork er Expert, Po Seat Angle 73.5 ed on 100mm trave Seat Angle To 74.5	22.8 23.3 or suspension Top Tube 224 23.3 el fork pp Tube (Effec 23.4	580 593 corrected fork (Effective) 570 593	Seat 13.0 13.0 13.0 Seat 16.4 16.4 Seat Tube (C 19.3	330 330 Tube (C-T) 417.4 417.4	15.5 15.5 Chair 17.0 17.0	395 395 instay 431.6 431.6 ght Wheel Base 415	12.5 12.5 13.0 13.0 13.0	318 318 Height 330 330	40.8 41.3 Whee 43.4 44.5	1036 1049 el Base 1102.8 1129.5	29.5 29.5 Stand 30.0 30.0	749 749 d Over 762 763	
Size Short Long Thread Size Short Long Porter Objee Size 49cm 53cm 57cm	Head Angle 69.3 69.3 d geometry based on er Comp, Port Head Angle 67 67 frame geometry base kt, Projekt Head Angle 70.5 70.5 70.5 70.5	Seat Angle 70 70 80mm travel fork of the seat Angle 73.5 73.5 ed on 100mm travel Seat Angle 74.5 74.5 74.5 74.5	22.8 23.3 or suspension orter Pro Top Tube 224 23.3 el fork op Tube (Effer 23.4 23.5 23.6	580 593 corrected fork (Effective) 570 593 stive) 595 597 599	Seat 13.0 13.0 13.0 13.0 15.1 Seat 16.4 16.4 16.4 16.4 16.4 19.3 20.9 22.4	330 330 330 Tube (C-T) 417.4 417.4 T)Chainstay 490 530 570	15.5 15.5 Chair 17.0 17.0 16.3 16.3 16.3	395 395 395 instay 431.6 431.6 ght Wheel Base 415 415 415	12.5 12.5 12.5 BB H 13.0 13.0 13.0 Stand Over 11.0 11.0	318 318 deight 330 330 280 280 280	40.8 41.3 Whee 43.4 44.5 41.8 41.9 43.1	1036 1049 bl Base 1102.8 1129.5 1062 1064 1095	29.5 29.5 Stanc 30.0 30.0 30.0 30.8 32.1	749 749 d Over 762 763 783 81	
Size Short Long Thread Size Short Long Porter Objee Size 49cm 53cm 57cm	Head Angle 69.3 69.3 d geometry based on er Comp, Port Head Angle 67 67 frame geometry base kt, Projekt Head Angle 70.5 70.5	Seat Angle 70 70 80mm travel fork of the seat Angle 73.5 73.5 ed on 100mm travel Seat Angle 74.5 74.5 74.5	22.8 23.3 or suspension orter Pro Top Tube 224 23.3 el fork op Tube (Effer 23.4 23.5 23.6	580 593 corrected fork (Effective) 570 593	Seat 13.0 13.0 13.0 13.0 15.1 Seat 16.4 16.4 16.4 16.4 16.4 19.3 20.9 22.4	330 330 330 Tube (C-T) 417.4 417.4 -T)Chainstay 490 530	15.5 15.5 Chair 17.0 17.0 16.3 16.3 16.3	395 395 instay 431.6 431.6 431.6	12.5 12.5 12.5 BB H 13.0 13.0 13.0 Stand Over 11.0 11.0	318 318 318 Height 330 330	40.8 41.3 Whee 43.4 44.5 41.8 41.9 43.1	1036 1049 el Base 1102.8 1129.5	29.5 29.5 Stanc 30.0 30.0 30.0 30.8 32.1	749 749 d Over 762 763 783	
Size Short Long Thread Port Size Short Long Porter Obje Size 49cm 53cm 57cm	Head Angle 69.3 69.3 d geometry based on er Comp, Port Head Angle 67 67 frame geometry base kt, Projekt Head Angle 70.5 70.5 70.5 70.5	Seat Angle 70 70 80mm travel fork of the seat Angle 73.5 73.5 ed on 100mm travel Seat Angle 74.5 74.5 74.5 74.5	22.8 23.3 or suspension orter Pro Top Tube 224 23.3 el fork op Tube (Effer 23.4 23.5 23.6	580 593 corrected fork (Effective) 570 593 stive) 595 597 599	Seat 13.0 13.0 13.0 13.0 15.1 Seat 16.4 16.4 16.4 16.4 16.4 19.3 20.9 22.4	330 330 330 Tube (C-T) 417.4 417.4 T)Chainstay 490 530 570	15.5 15.5 Chair 17.0 17.0 16.3 16.3 16.3	395 395 395 instay 431.6 431.6 ght Wheel Base 415 415 415	12.5 12.5 12.5 BB H 13.0 13.0 13.0 Stand Over 11.0 11.0	318 318 deight 330 330 280 280 280	40.8 41.3 Whee 43.4 44.5 41.8 41.9 43.1	1036 1049 bl Base 1102.8 1129.5 1062 1064 1095	29.5 29.5 Stanc 30.0 30.0 30.0 30.8 32.1	749 749 d Over 762 763 783 81	
Size Short Long Thread Port Size Short Long Porter Obje Size 49cm 53cm 57cm Call:	Head Angle 69.3 69.3 d geometry based on er Comp, Port Head Angle 67 67 frame geometry base kt, Projekt Head Angle 70.5 70.5 70.5 ahan, Amos, R Head Angle	Seat Angle 70 70 80mm travel fork of the search Angle 73.5 73.5 ed on 100mm travel Seat Angle 74.5 74.5 74.5 80scoe Seat Angle	22.8 23.3 or suspension orter Pro Top Tube 22.4 23.3 el fork op Tube (Effec 23.4 23.5 23.6 Top Tube	580 593 corrected fork (Effective) 570 593 :tive) 595 597 599	Seat 13.0 13.0 13.0 13.0 13.0 13.0 15.1 16.4 16.4 16.4 16.4 16.4 16.4 16.4 16	330 330 330 Tube (C-T) 417.4 417.4 T)Chainstay 490 530 570	15.5 15.5 Chair 17.0 17.0 17.0 BB Heig 16.3 16.3 16.3	395 395 395 instay 431.6 431.6 ght Wheel Base 415 415 415	12.5 12.5 12.5 BB H 13.0 13.0 13.0 Stand Over 11.0 11.0	318 318 318 Height 330 330 280 280 280	40.8 41.3 Whee 43.4 44.5 41.8 41.9 43.1	1036 1049 Base 1102.8 1129.5 1062 1064 1095	29.5 29.5 Stanc 30.0 30.0 30.8 32.1	749 749 d Over 762 763 783 81	
Size Short Long Thread Port Size Short Long Porter Obje Size 49cm 53cm 57cm Call: Size 16"	Head Angle 69.3 69.3 d geometry based on er Comp, Port Head Angle 67 67 frame geometry base kt, Projekt Head Angle 70.5 70.5 70.5 ahan, Amos, R Head Angle 70	Seat Angle 70 70 80mm travel fork of the search Angle 73.5 73.5 ed on 100mm travel Seat Angle 74.5 74.5 74.5 80scoe Seat Angle 73	22.8 23.3 or suspension Top Tube 22.4 23.3 el fork Dep Tube (Effect 23.4 23.5 23.6 Top Tube 20.4	580 593 corrected fork (Effective) 570 593 stive) 595 597 599 (Effective) 518	Seat 13.0 13.0 13.0 13.0 13.0 13.0 15.1 16.4 16.4 16.4 16.4 16.4 16.4 16.4 16	330 330 330 Tube (C-T) 417.4 417.4 417.4 T)Chainstay 490 530 570	15.5 15.5 15.5 Chair 17.0 17.0 17.0 BB Heig 16.3 16.3 16.3 Chair 17.7	395 395 395 instay 431.6 431.6 ght Wheel Base 415 415 415	12.5 12.5 12.5 BB H 13.0 13.0 13.0 Stand Over 11.0 11.0	318 318 318 Height 330 330 280 280 280	40.8 41.3 Whee 43.4 44.5 41.9 43.1 Whee 40.6	1036 1049 Base 1102.8 1129.5 1062 1064 1095	29.5 29.5 Stanc 30.0 30.0 30.8 32.1 Stanc 24.8	749 749 749 d Over 762 763 783 81 d Over 631	
Size Short Long Thread Port Size Short Long Porter Obje Size 49cm 53cm 57cm Call: Size 16" 18"	Head Angle 69.3 69.3 d geometry based on er Comp, Port Head Angle 67 67 frame geometry base kt, Projekt Head Angle 70.5 70.5 70.5 ahan, Amos, R Head Angle 70 70	Seat Angle 70 70 80mm travel fork of the sear Angle 73.5 ed on 100mm travel Seat Angle 74.5 74.5 74.5 74.5 80scoe Seat Angle 73 73	22.8 23.3 or suspension Top Tube 224 23.3 el fork DP Tube (Effec 23.4 23.5 23.6	580 593 corrected fork (Effective) 570 593 ettive) 595 597 599 (Effective) 518 533	Seat 13.0 13.0 13.0 13.0 Seat 16.4 16.4 16.4 Seat Tube (C 19.3 20.9 22.4 Seat 16.0 18.0	330 330 330 Tube (C-T) 417.4 417.4 417.4 490 530 570 Tube (C-T) 405 460	15.5 15.5 15.5 Chair 17.0 17.0 BB Heig 16.3 16.3 16.3 16.3	395 395 395 instay 431.6 431.6 ght Wheel Base 415 415 415 415	12.5 12.5 12.5 BB H 13.0 13.0 11.0 11.0 11.0 11.0	318 318 318 Height 330 330 280 280 280 280	40.8 41.3 Whee 43.4 44.5 41.8 41.9 43.1 Whee 40.6 41.2	1036 1049 Bl Base 1102.8 1129.5 1062 1064 1095	29.5 29.5 Stanc 30.0 30.0 30.8 32.1 Stanc 24.8 26.2	749 749 749 762 762 763 783 81 d Over 631 666	
Size Short Long Thread Port Size Short Long Porter Obje Size 49cm 57cm Calla Size 16" 20" 22"	Head Angle 69.3 69.3 d geometry based on er Comp, Port Head Angle 67 67 frame geometry base kt, Projekt Head Angle 70.5 70.5 The Amos, R Head Angle 70 70 70	Seat Angle 70 70 80mm travel fork of the seat Angle 73.5 73.5 ed on 100mm travel Seat Angle 74.5 74.5 74.5 74.5 74.5 75.5 Seat Angle 73 73 73 73 73	22.8 23.3 or suspension Top Tube 224 23.3 el fork op Tube (Effec 23.4 23.5 23.6 Top Tube 20.4 21.0 22.0 23.1	580 593 corrected fork (Effective) 570 593 stive) 595 597 599 (Effective) 518 533 558 586	Seat 13.0 13.0 13.0 13.0 13.0 15.1 Seat 16.4 16.4 16.4 16.4 16.4 16.4 16.0 19.3 20.9 22.4 Seat 16.0 18.0 20.0 22.0	330 330 330 Tube (C-T) 417.4 417.4 -T)Chainstay 490 530 570 Tube (C-T) 405 460 510 560	15.5 15.5 15.5 Chair 17.0 17.0 17.0 BB Heig 16.3 16.3 16.3 Chair 17.7 17.7	395 395 395 instay 431.6 431.6 415 415 415 415 450 450 450 450	BB H 13.0 13.0 13.0 13.0 11.0 11.0 11.0 11.0	318 318 318 Height 330 330 280 280 280 280 280 280 280	40.8 41.3 Whee 43.4 44.5 41.9 43.1 Whee 40.6 41.2 42.0 42.8	1036 1049 bl Base 1102.8 1129.5 1062 1064 1095 bl Base 1030 1047 1067	29.5 29.5 29.5 Stanc 30.0 30.0 30.8 32.1 Stanc 24.8 26.2 27.1 30.0	749 749 749 762 762 763 783 81 d Over 631 666 690 763	
Size Short Long Thread Port Size Short Long Porter Obje Size 49cm 53cm 57cm Call: Size 16" 18" 20" 22" Heal	Head Angle 69.3 69.3 d geometry based on er Comp, Port Head Angle 67 67 frame geometry base kt, Projekt Head Angle 70.5 70.5 70.5 Ahan, Amos, R Head Angle 70 70 70 70 rtland, Heartla Head Angle	Seat Angle 70 70 80mm travel fork of the seat Angle 73.5 73.5 ed on 100mm travel Seat Angle 74.5 74.5 74.5 74.5 80scoe Seat Angle 73 73 73 73 73 73 8and Sport Seat Angle	22.8 23.3 or suspension For Tube 22.4 23.3 el fork Dep Tube (Effect 23.4 23.5 23.6 Top Tube 20.4 21.0 22.0 23.1 Top Tube	580 593 corrected fork (Effective) 570 593 stive) 595 597 599 (Effective) 518 533 558	Seat 13.0 13.0 13.0 13.0 13.0 15.1 Seat 16.4 16.4 16.4 16.4 16.4 16.4 16.0 19.3 20.9 22.4 Seat 16.0 18.0 20.0 22.0	330 330 330 330 Tube (C-T) 417.4 417.4 417.4 490 530 570 Tube (C-T) 405 460 510 560	15.5 15.5 15.5 Chair 17.0 17.0 17.0 BB Heig 16.3 16.3 16.3 Chair 17.7 17.7	395 395 395 instay 431.6 431.6 ght Wheel Base 415 415 415 415 415 450 450	12.5 12.5 12.5 13.0 13.0 13.0 11.0 11.0 11.0 11.0 11.0	318 318 318 Height 330 330 280 280 280 280 280 280 280	40.8 41.3 Whee 43.4 44.5 41.9 43.1 Whee 40.6 41.2 42.0 42.8	1036 1049 Bl Base 1102.8 1129.5 1062 1064 1095	29.5 29.5 30.0 30.0 30.8 32.1 Stanc 24.8 26.2 27.1 30.0	749 749 749 d Over 762 763 81 d Over 631 666 690	
Size Short Long Thread Port Size Short Long Porter Obje Size 49cm 53cm 57cm Call: Size 16" 18" 20" 22" Heal	Head Angle 69.3 69.3 d geometry based on er Comp, Port Head Angle 67 67 frame geometry base kt, Projekt Head Angle 70.5 70.5 hahan, Amos, R Head Angle 70 70 70 70 rtland, Heartla	Seat Angle 70 70 80mm travel fork of the seat Angle 73.5 73.5 ed on 100mm travel Seat Angle 74.5 74.5 74.5 74.5 74.5 73.7 73 73 73 73 73	22.8 23.3 or suspension Top Tube 224 23.3 el fork op Tube (Effec 23.4 23.5 23.6 Top Tube 20.4 21.0 22.0 23.1	580 593 corrected fork (Effective) 570 593 stive) 595 597 599 (Effective) 518 533 558 586	Seat 13.0 13.0 13.0 13.0 13.0 15.1 Seat 16.4 16.4 16.4 16.4 16.4 16.4 16.0 19.3 20.9 22.4 Seat 16.0 18.0 20.0 22.0	330 330 330 Tube (C-T) 417.4 417.4 -T)Chainstay 490 530 570 Tube (C-T) 405 460 510 560	15.5 15.5 15.5 Chair 17.0 17.0 17.0 BB Heig 16.3 16.3 16.3 Chair 17.7 17.7	395 395 395 instay 431.6 431.6 415 415 415 415 450 450 450 450	12.5 12.5 12.5 13.0 13.0 13.0 11.0 11.0 11.0 11.0 11.0	318 318 318 deight 330 330 280 280 280 280 280 280	40.8 41.3 Whee 43.4 44.5 41.9 43.1 Whee 40.6 41.2 42.0 42.8	1036 1049 bl Base 1102.8 1129.5 1062 1064 1095 bl Base 1030 1047 1067	29.5 29.5 29.5 Stanc 30.0 30.0 30.8 32.1 Stanc 24.8 26.2 27.1 30.0	749 749 749 762 762 763 783 81 d Over 631 666 690 763	
Size Short Long Thread Port Size Short Long Porter Obje Size 49cm 53cm 57cm Call: Size 16" 18" 20" 22" Heal Size 14" Str	Head Angle 69.3 69.3 d geometry based on er Comp, Port Head Angle 67 67 frame geometry base kt, Projekt Head Angle 70.5 70.5 70.5 Ahan, Amos, R Head Angle 70 70 70 70 rtland, Heartla Head Angle	Seat Angle 70 70 80mm travel fork of the seat Angle 73.5 73.5 ed on 100mm travel Seat Angle 74.5 74.5 74.5 74.5 80scoe Seat Angle 73 73 73 73 73 73 8and Sport Seat Angle	22.8 23.3 or suspension For Tube 22.4 23.3 el fork Dep Tube (Effect 23.4 23.5 23.6 Top Tube 20.4 21.0 22.0 23.1 Top Tube	580 593 corrected fork (Effective) 570 593 :tive) 595 597 599 (Effective) 518 533 558 586	Seat 13.0 13.0 13.0 13.0 13.0 15.1 16.4 16.4 16.4 16.4 16.4 16.4 16.4 16	330 330 330 330 Tube (C-T) 417.4 417.4 417.4 490 530 570 Tube (C-T) 405 460 510 560	15.5 15.5 15.5 Chair 17.0 17.0 17.0 BB Heig 16.3 16.3 16.3 Chair 17.7 17.7 17.7	395 395 395 instay 431.6 431.6 415 415 415 415 450 450 450 450 450	BB H 13.0 13.0 13.0 11.0 11.0 11.0 11.0 BB H 11.0 11.0 BB H 11.0 11.0 BB H 13.0 II.0 II.0 II.0 II.0 II.0 II.0 II.0 I	318 318 318 deight 330 330 280 280 280 280 280 280	40.8 41.3 Whee 43.4 44.5 41.9 43.1 Whee 40.6 41.2 42.0 42.8	1036 1049 Base 1102.8 1129.5 1062 1064 1095 Base 1030 1047 1067 1087	29.5 29.5 30.0 30.0 30.8 32.1 Stanc 24.8 26.2 27.1 30.0	749 749 749 d Over 762 763 783 81 d Over 631 666 690 763	
Size Short Long Thread Port Size Short Long Porter Obje Size 49cm 53cm 57cm Call: Size 16" 18" 20" 22" Heal Size 14" Str	Head Angle 69.3 69.3 d geometry based on er Comp, Port Head Angle 67 67 frame geometry base kt, Projekt Head Angle 70.5 70.5 70.5 ahan, Amos, R Head Angle 70 70 70 70 rtland, Heartla Head Angle ep Thru 70.5	Seat Angle 70 70 80mm travel fork of the search angle 73.5 73.5 ed on 100mm travel Seat Angle 74.5 74.5 74.5 80scoe Seat Angle 73 73 73 73 73 73 8and Sport Seat Angle 72.5	22.8 23.3 or suspension For Tube 22.4 23.3 el fork 23.4 23.5 23.6 Top Tube 20.4 21.0 22.0 23.1 Top Tube 22.1	580 593 corrected fork (Effective) 570 593 ctive) 595 597 599 (Effective) 518 533 558 586	Seat 13.0 13.0 13.0 13.0 13.0 13.0 15.1 16.4 16.4 16.4 16.4 16.4 16.4 16.4 16	330 330 330 330 Tube (C-T) 417.4 417.4 417.4 490 530 570 Tube (C-T) 405 460 510 560	15.5 15.5 15.5 Chair 17.0 17.0 17.0 BB Heig 16.3 16.3 16.3 Chair 17.7 17.7 17.7 17.7	395 395 395 395 instay 431.6 431.6 415 415 415 415 450 450 450 450	12.5 12.5 12.5 BB H 13.0 13.0 13.0 Stand Over 11.0 11.0 11.0 11.0 11.0	318 318 318 Height 330 330 280 280 280 280 280 280 280	40.8 41.3 Whee 43.4 44.5 41.9 43.1 Whee 40.6 41.2 42.0 42.8 Whee	1036 1049 Base 1102.8 1129.5 1062 1064 1095 Base 1030 1047 1067 1087	29.5 29.5 29.5 Stanc 30.0 30.0 30.8 32.1 Stanc 24.8 26.2 27.1 30.0 Stanc 25.5	749 749 749 d Over 762 763 783 81 d Over 631 666 690 763 d Over 648	
Size Short Long Threac Port Size Short Long Porter Obje Size 49cm 57cm Call: Size 16" 18" 20" 22" Heal Size 14" Str 17" Str 14"	Head Angle 69.3 69.3 d geometry based on er Comp, Port Head Angle 67 67 frame geometry bas kt, Projekt Head Angle 70.5 70.5 ahan, Amos, R Head Angle 70 70 70 70 rtland, Heartla Head Angle ep Thru 70.5 6p Thru 70.5 70.5 70.5	Seat Angle 70 70 80mm travel fork of the seat Angle 73.5 73.5 ed on 100mm travel Seat Angle 74.5 74.5 74.5 74.5 74.5 74.5 73 73 73 73 73 73 73 73 73 73 73 73 73	22.8 23.3 or suspension Top Tube 22.4 23.3 el fork Dep Tube (Effect 23.4 23.5 23.6 Top Tube 20.4 21.0 22.0 23.1 Top Tube 22.1 22.8 20.6 21.1	580 593 corrected fork (Effective) 570 593 stive) 595 597 599 (Effective) 518 533 558 586 (Effective) 561 580 522 531	Seat 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0	330 330 330 330 Tube (C-T) 417.4	15.5 15.5 15.5 Chair 17.0 17.0 BB Heig 16.3 16.3 16.3 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17	395 395 395 instay 431.6 431.6 415 415 415 415 450 450 450 450 450	BB H 13.0 13.0 13.0 Stand Over 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.	318 318 318 318 4eight 330 330 330 280 280 280 280 280 280 280 280 280 28	40.8 41.3 Whee 43.4 44.5 41.9 43.1 Whee 40.6 41.2 42.0 42.8 Whee 40.1 41.1	1036 1049 Bl Base 1102.8 1129.5 1062 1064 1095 Bl Base 1030 1047 1067 1087	29.5 29.5 30.0 30.0 30.0 30.8 32.1 Stanc 24.8 26.2 27.1 30.0 Stanc 25.5 25.9 26.8 29.0	749 749 749 749 749 762 762 763 763 81 d Over 631 666 690 763 dd Over 648 659 680 736	
Size Short Long Thread Port Size Short Long Porter Obje Size 49cm 53cm 57cm Call: Size 16" 18" 20" 22" Heal Size 14" Str 17" Str 14"	Head Angle 69.3 69.3 d geometry based on er Comp, Port Head Angle 67 67 67 frame geometry base kt, Projekt Head Angle 70.5 70.5 ahan, Amos, R Head Angle 70 70 70 70 70 70 rtland, Heartla Head Angle ep Thru 70.5 ep Thru 70.5 70.5	Seat Angle 70 70 80mm travel fork of the sear Angle 73.5 73.5 ed on 100mm travel Seat Angle 74.5 74.5 74.5 80scoe Seat Angle 73 73 73 73 73 74 Seat Angle 72.5 72.5 72.5	22.8 23.3 or suspension Top Tube 22.4 23.3 el fork Dep Tube (Effect 23.4 23.5 23.6 Top Tube 20.4 21.0 22.0 23.1 Top Tube 22.1 22.8 20.6	580 593 corrected fork (Effective) 570 593 stive) 595 597 599 (Effective) 518 533 558 586	Seat 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0	330 330 330 330 Tube (C-T) 417.4	15.5 15.5 15.5 Chair 17.0 17.0 BB Heig 16.3 16.3 16.3 17.7 17.7 17.7 17.7 17.7 17.7	395 395 395 395 instay 431.6 431.6 415 415 415 415 450 450 450 450	BB H 13.0 13.0 13.0 13.0 11.0 11.0 11.0 11.0	318 318 318 Height 330 330 280 280 280 280 280 280 280 280 280 28	40.8 41.3 Whee 43.4 44.5 41.9 43.1 Whee 40.6 41.2 42.0 42.8 Whee 40.1 41.1 40.1	1036 1049 Base 1102.8 1129.5 1062 1064 1095 Base 1030 1047 1067 1087	29.5 29.5 30.0 30.0 30.8 32.1 Stanc 24.8 26.2 27.1 30.0 Stanc 25.5 25.9 26.8	749 749 749 749 749 762 762 763 783 81 d Over 631 666 699 763 d Over 648 659 680	
Size Short Long Thread Port Size Short Long Porter Obje Size 49cm 53cm 57cm Call: Size 16" 22" Heal Size 14" Str 17" Str 17" 20"	Head Angle 69.3 69.3 69.3 d geometry based on er Comp, Port Head Angle 67 67 frame geometry base kt, Projekt Head Angle 70.5 70.5 70.5 hahan, Amos, R Head Angle 70 70 70 70 rtland, Heartla Head Angle ep Thru 70.5 20.5 70.5 70.5 70.5 70.5 70.5 70.5 70.5 7	Seat Angle 70 70 80mm travel fork of the seat Angle 73.5 73.5 ed on 100mm travel Seat Angle 74.5 74.5 74.5 74.5 74.5 80scoe Seat Angle 73 73 73 73 73 73 73 8and Sport Seat Angle 72.5 72.5 72.5 72.5 72.5 72.5	22.8 23.3 or suspension Top Tube 22.4 23.3 el fork Top Tube (Effec 23.4 23.5 23.6 Top Tube 20.4 21.0 22.0 23.1 Top Tube 22.1 22.8 20.6 21.1 22.0	580 593 corrected fork (Effective) 570 593 stive) 595 597 599 (Effective) 518 533 558 586 (Effective) 561 580 522 531 558	Seat 13.0 13.0 13.0 13.0 13.0 13.0 13.0 15.1 16.4 16.4 16.4 16.4 16.4 16.4 16.4 16	330 330 330 330 330 330 330 330 Tube (C-T) 417.4 417.4 417.4 417.4 417.4 -T)Chainstay 490 530 570 Tube (C-T) 405 460 510 560 Tube (C-T) 355 430 355 430 508	15.5 15.5 15.5 17.0 17.0 17.0 17.0 17.0 16.3 16.3 16.3 16.3 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17	395 395 395 395 395 431.6 431.6 415 415 415 415 450 450 450 450 450 450 450 450 450 45	BB H 13.0 13.0 13.0 Stand Over 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.	318 318 318 4eight 330 330 280 280 280 280 280 280 280 280 280 295 295 295	40.8 41.3 Whee 43.4 44.5 41.9 43.1 Whee 40.6 41.2 42.0 42.8 Whee 40.1 41.1 40.1 41.1 42.1	1036 1049 Base 1102.8 1129.5 1062 1064 1095 Base 1030 1047 1067 1087	29.5 29.5 29.5 30.0 30.0 30.8 32.1 Stanc 24.8 26.2 27.1 30.0 Stanc 25.5 25.9 26.8 29.0 30.0	749 749 749 749 749 762 762 763 783 81 666 690 763 d Over 648 655 680 736 763	
Size Short Long Thread Port Size Short Long Porter Size 49cm 53cm 57cm Call: Size 16" 18" 20" 22" Heal Size 14" Std 17" Std 14" 17" 20" Size	Head Angle 69.3 69.3 d geometry based on er Comp, Port Head Angle 67 67 frame geometry base kt, Projekt Head Angle 70.5 70.5 70.5 70.7 70 70 rtland, Heartla Head Angle ep Thru 70.5 70.5 70.5 70.5 70.5 70.5 70.5 70.5	Seat Angle 70 70 80mm travel fork of the sear Angle 73.5 73.5 ed on 100mm travel Seat Angle 74.5 74.5 74.5 74.5 80scoe Seat Angle 73 73 73 73 73 73 73 73 73 73 25 25 72.5 72.5 72.5 72.5 Seat Angle 72.5 72.5 72.5 Seat Angle 73 73 73 73 73 73 73 73 73 73 73 73 73	22.8 23.3 or suspension Top Tube 22.4 23.3 el fork Dop Tube (Effect 23.4 23.5 23.6 Top Tube 20.4 21.0 22.0 23.1 Top Tube 22.1 22.8 20.6 21.1 22.0 Be Top Tube	580 593 corrected fork (Effective) 570 593 :tive) 595 597 599 (Effective) 518 533 558 586 (Effective) 561 580 522 531 558	Seat 13.0 13.0 13.0 13.0 13.0 13.0 13.0 15.1 16.4 16.4 16.4 16.4 16.4 16.4 16.4 16	330 330 330 330 330 330 330 330 Tube (C-T) 417.4 417.4 417.4 -T)Chainstay 490 530 570 Tube (C-T) 405 460 510 560 Tube (C-T) 355 430 355 430 508	15.5 15.5 15.5 17.0 17.0 17.0 17.0 17.0 16.3 16.3 16.3 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17	395 395 395 395 instay 431.6 431.6 415 415 415 415 415 450 450 450 450 450 450 450 450 450	BB H 13.0 13.0 13.0 13.0 Stand Over 11.0 11.0 11.0 11.0 11.0 11.6 11.6 11.6	318 318 318 deight 330 330 280 280 280 280 280 280 280 280 280 28	40.8 41.3 Whee 43.4 44.5 41.9 43.1 Whee 40.6 41.2 42.0 42.8 Whee 40.1 41.1 40.1 41.1 42.1	1036 1049 Base 1102.8 1129.5 1062 1064 1095 Base 1030 1047 1067 1087	29.5 29.5 29.5 Stanc 30.0 30.0 30.8 32.1 Stanc 24.8 26.2 27.1 30.0 Stanc 25.5 25.9 26.8 29.0 30.0	749 749 749 749 749 762 762 763 783 81 666 690 763 d Over 648 659 680 736 763	
Size Short Long Thread Port Size Short Long Porter Size 49cm 53cm 57cm Call: Size 16" 18" 20" 22" Heal Size 14" Str 17" Str 14" 17" 20" Size	Head Angle 69.3 69.3 69.3 d geometry based on er Comp, Port Head Angle 67 67 frame geometry base kt, Projekt Head Angle 70.5 70.5 70.5 ahan, Amos, R Head Angle 70 70 70 70 rtland, Heartla Head Angle ep Thru 70.5 70.5 70.5 70.5 70.5 70.5 70.5 70.5	Seat Angle 70 70 80mm travel fork of the search of the sea	22.8 23.3 or suspension Top Tube 22.4 23.3 el fork Dop Tube (Effect 23.4 23.5 23.6 Top Tube 20.4 21.0 22.0 23.1 Top Tube 22.1 22.8 20.6 21.1 22.0 Top Tube 23.1	580 593 corrected fork (Effective) 570 593 ctive) 595 597 599 (Effective) 518 533 558 586 (Effective) 561 580 522 531 558	Seat 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0	330 330 330 330 330 330 330 330 330 330	15.5 15.5 15.5 17.0 17.0 17.0 17.0 17.0 17.0 17.7 17.7	395 395 395 395 395 instay 431.6 431.6 415 415 415 415 415 450 450 450 450 450 450 450 450	BB H 13.0 13.0 13.0 13.0 13.0 13.0 13.0 11.0 11	318 318 318 318 deight 330 330 280 280 280 280 280 280 280 280 280 28	40.8 41.3 Whee 43.4 44.5 41.9 43.1 Whee 40.6 41.2 42.0 42.8 Whee 40.1 41.1 40.1 41.1 40.1 41.1 40.1 41.1 40.1	1036 1049 Base 1102.8 1129.5 1062 1064 1095 Base 1030 1047 1067 1087 Base 1021 1045 1021 1045 1070	29.5 29.5 29.5 Stanc 30.0 30.0 30.8 32.1 Stanc 24.8 26.2 27.1 30.0 Stanc 25.5 25.9 26.8 29.0 30.0	749 749 749 749 749 749 762 763 783 81 666 690 763 d Over 648 655 680 736 d Over 640 650 660 763	
Size Short Long Thread Port Size Short Long Porter Size 49cm 53cm 57cm Call: Size 16" 18" 20" 22" Heal Size 14" Str 17" Str 20" Size 14" Str 17" Str 20"	Head Angle 69.3 69.3 d geometry based on er Comp, Port Head Angle 67 67 frame geometry base kt, Projekt Head Angle 70.5 70.5 70.5 ahan, Amos, R Head Angle 70 70 70 70 rtland, Heartla Head Angle ep Thru 70.5 70.5 70.5 70.5 70.5 70.5 70.5 70.5	Seat Angle 70 70 80mm travel fork of the sear Angle 73.5 73.5 ed on 100mm travel Seat Angle 74.5 74.5 74.5 80scoe Seat Angle 73 73 73 73 73 73 8and Sport Seat Angle 72.5 72.5 72.5 72.5 72.5 72.5 72.5 Seat Angle 74 74	22.8 23.3 or suspension Top Tube 22.4 23.3 el fork Dep Tube (Effect 23.4 23.5 23.6 Top Tube 20.4 21.0 22.0 23.1 Top Tube 22.1 22.8 20.6 21.1 22.0 Top Tube 23.1 23.5	580 593 corrected fork (Effective) 570 593 (Effective) 595 597 599 (Effective) 518 533 558 586 (Effective) 561 580 522 531 558	Seat 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0	330 330 330 330 330 330 330 330 330 330	15.5 15.5 15.5 15.5 Chair 17.0 17.0 17.0 BB Heig 16.3 16.3 16.3 17.7 17.7 17.7 17.7 17.7 17.2 17.2 17.2	395 395 395 395 395 395 431.6 431.6 431.6 431.6 435 415 415 415 415 450 450 450 450 450 457 437 437 437 437 437 437	BB H 13.0 13.0 13.0 13.0 13.0 13.0 13.0 11.0 11	318 318 318 Height 330 330 280 280 280 280 280 280 280 28	40.8 41.3 Whee 43.4 44.5 41.9 43.1 Whee 40.6 41.2 42.0 42.8 Whee 40.1 41.1 40.1 41.1 40.1 41.1 40.1 41.1 40.1 41.1 40.1 41.1 40.6 40.6 40.1 41.1 40.1 41.1 40.1 41.1 40.1 41.1 40.1 40	1036 1049 Base 1102.8 1129.5 1062 1064 1095 Base 1030 1047 1067 1087 Bl Base 1021 1045 1021 1045 1070	29.5 29.5 29.5 Stance 30.0 30.0 30.0 30.8 32.1 Stance 24.8 26.2 27.1 30.0 Stance 25.5 25.9 26.8 29.0 30.0 Stance 24.6 25.1	749 749 749 749 749 749 762 762 763 783 81 666 690 763 d Over 648 659 680 736 666 680 736 666 680 736 666 680 736 666 680 736 686 736 686 736 686 736 686 736 686 736 686 736 686 736 686 736	
Size Short Long Thread Port Size Short Long Porter Obje Size 49cm 53cm 57cm Call: Size 16" 18" 20" 22" Head 17" Std 14"	Head Angle 69.3 69.3 69.3 d geometry based on er Comp, Port Head Angle 67 67 frame geometry base kt, Projekt Head Angle 70.5 70.5 ahan, Amos, R Head Angle 70 70 70 70 70 70 rtland, Heartle ep Thru 70.5 ep Thru 70.5 ress Sport, Ex Head Angle ep Thru 70.5	Seat Angle 70 70 80mm travel fork of the sear Angle 73.5 73.5 ed on 100mm travel Seat Angle 74.5 74.5 74.5 74.5 73 73 73 73 73 73 73 73 73 73 73 73 73	22.8 23.3 or suspension Top Tube 22.4 23.3 el fork Dep Tube (Effect 23.4 23.5 23.6 Top Tube 20.4 21.0 22.0 23.1 Top Tube 22.1 22.8 20.6 21.1 22.0 Top Tube 23.1 23.5 23.1	580 593 corrected fork (Effective) 570 593 stive) 595 597 599 (Effective) 518 533 558 586 (Effective) 561 580 522 531 558	Seat 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0	330 330 330 330 330 330 330 330 330 330	15.5 15.5 15.5 17.0 17.0 17.0 17.0 17.0 17.0 17.7 17.7	395 395 395 395 395 instay 431.6 431.6 431.6 415 415 415 415 415 450 450 450 450 450 450 450 450 450	BB H 13.0 13.0 13.0 13.0 13.0 13.0 11.0 11.0	318 318 318 Height 330 330 330 280 280 280 280 280 280 295 295 295 295 295 295 295	40.8 41.3 Whee 43.4 44.5 41.8 41.9 43.1 Whee 40.6 41.2 42.0 42.8 Whee 40.1 41.1 40.1 41.1 40.1 41.1 40.1 41.1 40.1 41.1 40.1 41.1 40.1 40	1036 1049 Base 1102.8 1129.5 1062 1064 1095 Base 1030 1047 1067 1087 1045 1021 1045 1070	29.5 29.5 29.5 30.0 30.0 30.0 30.8 32.1 Stance 24.8 26.2 27.1 30.0 Stance 25.5 25.9 26.8 29.0 30.0	749 749 749 749 749 749 762 763 763 81 d Over 631 666 699 763 d Over 648 659 680 736 763	
Size Short Long Thread Port Size Short Long Porter Size 49cm 53cm 57cm Call: Size 16" 18" 20" 22" Heal Size 14" Str 17" Str 20" Size 14" Str 17" Str 20"	Head Angle 69.3 69.3 d geometry based on er Comp, Port Head Angle 67 67 frame geometry base kt, Projekt Head Angle 70.5 70.5 70.5 ahan, Amos, R Head Angle 70 70 70 70 rtland, Heartla Head Angle ep Thru 70.5 70.5 70.5 70.5 70.5 70.5 70.5 70.5	Seat Angle 70 70 80mm travel fork of the sear Angle 73.5 73.5 ed on 100mm travel Seat Angle 74.5 74.5 74.5 80scoe Seat Angle 73 73 73 73 73 73 8and Sport Seat Angle 72.5 72.5 72.5 72.5 72.5 72.5 72.5 Seat Angle 74 74	22.8 23.3 or suspension Top Tube 22.4 23.3 el fork Dep Tube (Effect 23.4 23.5 23.6 Top Tube 20.4 21.0 22.0 23.1 Top Tube 22.1 22.8 20.6 21.1 22.0 Top Tube 23.1 23.5	580 593 corrected fork (Effective) 570 593 (Effective) 595 597 599 (Effective) 518 533 558 586 (Effective) 561 580 522 531 558	Seat 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0	330 330 330 330 330 330 330 330 330 330	15.5 15.5 15.5 15.5 Chair 17.0 17.0 17.0 BB Heig 16.3 16.3 16.3 17.7 17.7 17.7 17.7 17.7 17.2 17.2 17.2	395 395 395 395 395 395 431.6 431.6 431.6 431.6 435 415 415 415 415 450 450 450 450 450 457 437 437 437 437 437 437	BB H 13.0 13.0 13.0 13.0 13.0 13.0 13.0 11.0 11	318 318 318 Height 330 330 280 280 280 280 280 280 280 28	40.8 41.3 Whee 43.4 44.5 41.9 43.1 Whee 40.6 41.2 42.0 42.8 Whee 40.1 41.1 40.1 41.1 40.1 41.1 40.1 41.1 40.1 41.1 40.1 41.1 40.6 40.6 40.1 41.1 40.1 41.1 40.1 41.1 40.1 41.1 40.1 40	1036 1049 Base 1102.8 1129.5 1062 1064 1095 Base 1030 1047 1067 1087 Bl Base 1021 1045 1021 1045 1070	29.5 29.5 29.5 Stance 30.0 30.0 30.0 30.8 32.1 Stance 24.8 26.2 27.1 30.0 Stance 25.5 25.9 26.8 29.0 30.0 Stance 24.6 25.1	749 749 749 749 749 749 762 762 763 783 81 666 690 763 d Over 648 659 680 736 666 680 736 666 680 736 666 680 736 666 680 736 686 736 686 736 686 736 686 736 686 736 686 736 686 736 686 736	







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